

**Control System Type ABS PCx
COMLI/Modbus**



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1 COMLI and Modbus Protocol

1.1 General info about COMLI:

The Comli Protocol consists of a number of different telegram types for data exchange between central unit and sub units in a MASTER / SLAVE dependence.

MASTER / SLAVE means that the central unit always is MASTER which means that all communication with sub units is controlled by the central unit.

Each sub unit has its own identification number, which means that communication with several sub units can be Made via the same cable if so called. multi-drop modem is used.

1.1.1 Build – up of Comli telegram:

A Comli telegram can at most contain 77 signs (bytes) of which 64 data bytes and 13 order and control bytes. This is valid for both binary and ASCII data.

Most telegrams exchange data as 16 bit integer either binary (2 bytes / data register), or ASCII hexadecimal (4 bytes / data register), which means that each telegram can contain max. 32 data register in binary mode or 16 data register in ASCII mode.

Each telegram is started with STX (ASCII code 2) followed by 2 bytes for the identification number of the sub unit, 1 so called. stamp byte as described below,
 1 byte for message type,
 4 bytes for start address,
 2 bytes for number of data signs,
 0-64 bytes data,
 and ETX (ASCII code 3) and 1 byte checksum.

1.1.2 Telegram structure:

0	1	2	3	4	5	6	7	8	9	10	D1	Dn	Dn+1	Dn+2	
STX	ID.	No.	STAMP	MSG.	START ADDRESS				NUMBER(n)	DATA 0-	ETX	CHK.			
				TYPE					DATABYTES	64 bytes			SUM		

Byte 1 - 10 is always Hexadecimal ASCII, for ex.. ID.No. 1 is sent as '0'1' (Hex), ID.No. 10 = '0'A'(Hex).

1.1.3 BYTE 0: STX

Telegram start. (ASCII code 2)

1.1.4 BYTE 1 and 2: ID.No.

Identification number of sub unit (1-255) in ASCII hex format.

Number 0 is always master (Central unit).

Sub unit only answers if the number corresponds to own number.

1.1.5 BYTE 3: STAMP

Can be '0', '1', or '2'.

The Central unit shall send '0' when starting and thereafter change between '1' and '2' for each telegram so that the sub unit will know if the telegram is re-sent (Used by Satt PLC).

PCx answers with same stamp as in request.

1.1.6 BYTE 4: MESSAGE TYPE

Can be '0'-'9' and 'A'-'V'.

See separate description for used message types.

1.1.7 BYTE 5-8: START ADDRESS

Gives start address to first data register in the telegram. Always hex ASCII '0'-'0'-'0'-'0' to 'F'-'F'-'F'-'F'.

See separate address list.

1.1.8 BYTE 9 and 10: NUMBER DATA BYTES n

Tells how many data bytes that follow when transmitting data, or how many bytes shall be transferred when asking for data. Always hex ASCII.

1.1.9 DATA BYTES:

Binary or ASCII hex. PCx supports only binary format.

Max 16 register values / telegram with hex ASCII.

Max 32 register values binary.

When binary communication one byte is always 8 data bits. High byte (M.S.Byte) in register is sent before low byte (L.S.Byte).

NOTE! For a byte of binary data, most significant bit (M.S.B.) is sent first and least significant bit (L.S.B.) last, i.e. opposite to normal ASCII communication.

1.1.10 BYTE 11+n: ETX

Ends telegram.

1.1.11 BYTE 12+n

CHECKSUM BCC (Block Check Count) Calculated as a modulo-2 addition (XOR) on all bytes in the telegram except first STX sign, inclusive ETX.

More information is available in Comli specification from Alfa Laval (ex. Satt Control).

1.2 Message types

As most Central systems only use a limited choice of the available message types at Comli emulation, only the most common types are used even in PCx as below. For detailed information we refer to Alfa Laval's Comli manual.

0	Transfer of register value or IO-RAM status.
1	Confirmation data received.
2	Request for register value or IO-RAM status.
3	Transfer of status for one IO-bit.
4	Request of status for one IO-bit.
I	Request for date and time.
J	Transfer of date and time
K	Request of memory content 0-64 Kbytes
M	Transfer of memory content 0-64 Kbytes
Å	Request for time stamped IO events.
Ä	Transfer of time stamped IO events.
<	Request of extended register (65535 registers can be addressed).
=	Transfer of extended register value.

General message type for text is not defined in Comli, why we have chosen two free types according to Satt Controls Comli documentation.

Message types 'O' and 'P' were defined as not used in Satt Controls Comli manual when they initially were implemented for text transfer.

Message type 'O' and 'P' have later been defined for floating point numbers by Alfa Laval why we doubled these types

With telegram type '?' and '@'. In later versions type 'O' and 'P' will not be used, but are still in use for

Comparability with older units

O and ?	Request for text (Not used in Satt Control Comli specifications)
P and @	transfer of text (Not used in Satt Control Comli specifications)

For communication between PCx and other systems there is a possibility for software configuration of reg. 0-254 (255 register), which can be set to all registers which are described in register list

1.2.1 MESSAGE TYPE '0':

Transfer of register value or. IO-RAM status. Sent from central system to PCx for transfer of register value or from PCx as answer on request for data or IO-status.

Address 0000h - 3FFFh used for transfer of IO-status.

Address must be dividable by 8.

At binary communication each byte contains information of 8 digital IO-numbers. Max 512 IO bits per telegram.

Address 4000h - FFFFh is used for transfer of register values.

The address must be dividable with 16.

Register is from 0 - 3071 (Max number Comli registers = 3072), whereby the Comli address will be

Register no. * 16 + 16384 (reg.no * 10h + 4000h).

1.2.2 MESSAGE TYPE '1':

Confirmation data received.

Sent from PCx to central system as confirmation that transferred data from central system is received.

1.2.3 MESSAGE TYPE '2':

Request of register value or. IO-RAM status.

Sent from central system to PCx.

Address 0000h - 3FFFh used for request of IO-status.

The address must be dividable with 8. Using Hex ASCII each byte represents 4 IO. digital in- or outputs (each bit = 1 IO-channel). Max 256 IO bits per telegram.

Using binary communication each byte contains information of 8 IO. digital IO-signals. Max 512 IO bits per telegram.

Address 4000h - FFFFh used for request of register values.

Same conditions as for message type 0.

1.2.4 MESSAGE TYPE '3':

Transfer of status for one IO-bit. Sent from central system to PCx or from PCx as answer on request about status for one IO-bit.

1.2.5 MESSAGE TYPE '4':

Request of status for one IO-bit.

Sent from central system to PCx.

1.2.6 MESSAGE TYPE 'I':

Request for date and time.

Sent from central system to PCx.

1.2.7 MESSAGE TYPE 'J':

Transfer of date and time.

Sent from central system to PCx or from PCx as answer on request about date and time.

1.2.8 MESSAGE TYPE 'K':

Request about memory content 0-64 Kbytes.

Sent from central system to PCx.

Used for request of compressed history data.

1.2.9 MESSAGE TYPE 'M':

Transfer of memory content 0-64 Kbytes.

Sent from PCx to central system.

Used for transfer of compressed historic logdata.

1.2.10 MESSAGE TYPE 'Å' (5D hex):

Request for time stamped IO events.

Sent from central system to PCx.

Used for requests of Alarm and/or IO history.

1.2.11 MESSAGE TYPE 'Ä':

Transfer of time stamped IO events.

Sent from PCx to central system.

Sends up to 6 time stamped IO events / telegram. Where after sent data are flagged off, and next telegram contains new data. (Each event can only be transferred once.)

1.2.12 Message Type '<':

Request of expanded register value. Up to 65535 registers can be addressed.

The central system sends this to the PCx

1.2.13 Message Type '=':

Transmitting an expanded register value. The central system sends this to the PCx when transmitting an expanded register value to or receiving from the CPU30 as answer of a data request.

1.3 *Not standardised message types*

Message types 'O' and 'P' were defined as not used in Satt Controls Comli manual when they were introduced for transfer of text.

Message type 'O' and 'P' have later been defined as floating point by Alfa Laval so these types have been doubled with message types '?' and '@'. In coming versions type 'O' and 'P' will not be used. Used at present for comparability

1.3.1 MESSAGE TYPE '?':

1.3.2 MESSAGE TYPE 'O':

Request for text.

Sent from central system to PCx, for request of text.

Fixed number of data bytes:

PCx returns a string with requested number of data bytes. If string is shorter than requested number of bytes PCx fills with spaces up to requested number. If string is longer only the requested number of data bytes will be transferred.

Variable number of data bytes:

If requested number of data bytes is set to 0, PCx returns the whole text string with the number of data bytes in response telegram set to number of bytes in the string.

Largest number of data bytes in the string in PCx is 64 bytes = max. message length for 1 telegram at binary data transfer.

1.3.3 MESSAGE TYPE '@':

1.3.4 MESSAGE TYPE 'P':

Transfer of text.

Sent from central system to PCx. for transfer of text string, or from PCx to central system. As answer on request for text.

At transfer from central system PCx answers with confirmation that data is received (message type 1)

On request from central system PCx returns text string with requested number of data bytes.

(Short strings fills with 'space'.)

(Long strings can be cut.)

If requested number of data bytes is set to 0 the whole string is returned, with the number of data bytes in the response telegram set to actual number of data bytes.

1.4 General info about Modbus

Modbus is a Master/Slave protocol in the same manner as Comli with possible multidrop connectivity.

For data exchange a number of message functions is available for 16-bit data registers and IO-status.

PCx supports Modbus RTU for binary data.

1.4.1 Message functions:

Following Modbus functions is supported by PCx

01	Read coil status
02	Read input status
03	Read holding register
04	Read input register
05	Force single coil
06	Preset single register
15	Force multiple coils
16	Preset multiple registers

Modbus have separate message functions for read out of input and output status.

Only outputs can be written.

In PCx, data is digital IO status (0/1), or data registers (numerical values).

Message type 1 (coil status) and 2 (input status) addresses the same data in PCx.

Also message type 3 (holding registers) and type 4 (input registers) addresses the same data in PCx.

In monitoring systems with Modbus protocol, data is normally separated in series starting with 1 as first reference number and a leading digit to specify data type.

MODBUS DATA		REFERENCE NAME IN PCx
COIL	0001	IO 0
COIL	0002	IO 1
	a.s.o.	
INPUT	10001	IO 0
INPUT	10002	IO 1
	a.s.o.	

OUTPUT HOLDING

REGISTER:

40001	Register 0
40002	Register 1
	a.s.o.

INPUT

REGISTER:

30001	Register 0
30002	Register 1
	a.s.o.

1.4.2 Modbus cross-reference list:

Cross-reference list is valid for reading data with message function 3 (holding registers).

Function 4 (input registers) ignores the cross-reference list (data is always according to the register manual).

For data writes, the cross-reference list is valid for message function 6 and 16.

Function 70 ignores the cross-reference list.

1.4.3 Analogue logger read out

Compressed log data is read out with message function 3 or 4 from address 8000H.

Expanded log data is read out with message function 3 or 4, address 4000H-7FFFH.

1.4.4 Max no of data in one message.

Max no of data that can be transferred in one Modbus message differs between manufactures and types.

PCx have following limits.

Function:	Description:	Max no of data in one message:
01	Read coil status	2000 Coils
02	Read input status	2000 Inputs
03	Read holding register	125 Registers
04	Read input register	125 Registers
05	Force single coil	1 Coil
06	Preset single register	1 Registers
15	Force multiple coils	1024 Coils
16	Preset multiple registers	100 Registers
70	Preset multiple registers	100 Registers

If address range exceeds limits, PCx will return Error Response "illegal data address", code 2.

For not supported message functions, PCx will return Error Response "illegal function", code 1.

1.4.5 User message functions

In Modbus, message type 65 – 72 is reserved for user functions.

For AquaProg support, the following message functions are added.

65 'A' = Request of text

66 'B' = Transfer of text

67 'C' = Request of date and time

68 'D' = Transfer of date and time

69 'E' = Request of time stamped events

70 'F' = Preset multiple registers ignoring cross reference list (otherwise same as message function 16)

1.4.6 Function 65

Request of text. Max string length = 64 characters

Slav	Adr.	Qty.	Qty.	CRC	CRC
adr.	Func	Hi	Lo	Hi	Lo
1	65	0	0	0	0

Response from slave

Slav	Byte	Text	Text	Text	CRC	CRC	
adr.	Func	Cnt	Data	Data	Data	Hi	Lo
1	65	3	'A'	'B'	'C'	x	x

If requested Qty = 0, the full string will be returned with Byte Cnt set to actual no of characters.

If Qty = 1-64, requested no of bytes will be returned.

Longer strings will be truncated to requested no of bytes.

Short strings will be padded with trailing spaces up to requested no of bytes.

If requested no of bytes > 64, error code 2 (Illegal data address) will be returned.

1.4.7 Function 66

Transfer of text. Max string length = 64 characters

Slav	Adr.	Qty.	Qty.	Byte	Text	Text	Text	CRC	CRC		
adr.	Func	Hi	Lo	Hi	Lo	Cnt	Data	Data	Data	Hi	Lo
1	66	0	0	0	3	3	'A'	'B'	'C'	x	x

Response from slave

Slav	Adr.	Qty.	Qty.	CRC	CRC
adr.	Func	Hi	Lo	Hi	Lo
1	66	0	0	3	x

If requested no of bytes > 64, error code 2 (Illegal data address) will be returned.

1.4.8 Function 67

Request of date and time. Fix string length = 12 characters

Slav	Adr.	Qty.	Qty.	CRC	CRC
adr.	Func	Hi	Lo	Hi	Lo
1	67	0	0	0	0

Address is always 0

Qty. is normally 0 or 12

Response from slave

Slav	Byte	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	Text	CRC	CRC
adr.	Func	Cnt	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Data	Hi	Lo
1	65	12	'0'	'0'	'0'	'6'	'3'	'0'	'2'	'3'	'5'	'8'	'5'	'9'	x	x	

Time is returned as a text string "YYMMDDHHMMSS"

If requested Qty = 0, Byte Cnt is set to 12 characters.

If Qty = 1-64, requested no of bytes will be returned.

Longer strings will be truncated to requested no of bytes.

Short strings will be padded with trailing spaces up to requested no of bytes.

If requested no of bytes > 64, error code 2 (Illegal data address) will be returned.

1.4.9 Function 68

Transfer of date and time. Fix string length = 12 characters

Slav adr.	Func	Adr. Hi	Adr. Lo	Qty. Hi	Qty. Lo	Byte Cnt	Text Data	Text Data	Text Data	Text Data	Text Data	Text Data	Text Data	Text Data	Text Data	Text Data	CRC Hi	CRC Lo		
1	68	0	0	0	12	12	'0'	'0'	'0'	'6'	'3'	'0'	'2'	'3'	'5'	'8'	'5'	'9'	x	x

Address is always 0

Qty. and Byte Cnt is always 12

Response from slave

Slav adr.	Func	Adr. Hi	Adr. Lo	Qty. Hi	Qty. Lo	CRC Hi	CRC Lo
1	68	0	0	0	12	x	x

Qty. or Byte Cnt differs from 12, error code 2 (Illegal data address) will be returned.

1.4.10 Function 69

Request of time stamped events. Fix string length = 60 characters (6 events)

Slav adr.	Func	Adr. Hi	Adr. Lo	Qty. Hi	Qty. Lo	CRC Hi	CRC Lo
1	69	0	0	0	6	x	x

Address is always 0 for a new request.

In case of com. error, retransmit of previous data is done if address = 1.

Qty is always 6 events (* 10 bytes/event = 60 bytes)

Response from slave

Slav adr.	Func	Byte Cnt	Ev.1 Data	Ev.6 Data	CRC Hi	CRC Lo
1	69	60	0	0	x	x

60 bytes
event data

If Qty. Differs from 6, error code 2 (Illegal data address) will be returned.

Byte Cnt is always 60 bytes.

Event data have the same layout as in Comli message Å-Ä.

1.5 Modbus master:

PCx support following message functions as Modbus master.

Type:	Function:
1	Read coil status
2	Read input status
3	Read holding registers
4	Read input registers
5	Force single coil
6	Preset single holding register
16	Preset multiple holding registers

Message function 1 and 2 addresses the same IO data in PCx.

Message function 3 and 4 addresses the same register data in PCx.

1.6 Extended resolution (32 bit register):

A register in Comli/Modbus is normally 16 bit. As certain values demand a better resolution (long int = 32 bits) these values are split into 2 data registers where the most significant register is sent first, these registers are shown with 2 register numbers in the data register list.

It is very seldom that more than 16 bit resolution is exceeded. If the system can handle only 16 bit registers the higher register value (l.s.w.) shall be used.

To calculate the 32-bit value the normal operation is to read both registers as 16 bit data.

The 32-bit value is calculated in a math block as the lower register number content * 65536 + the higher register number content.

Example: Accumulated runtime (seconds) for Pump 1 is found in register 592+593.

Data in register 592 = 5 and 593 = 32320.

Runtime = 5 * 65536 + 32320 = 360 000 seconds (100 hours).

1.7 Remote / Local function

The task of this function is to prevent external manoeuvres via Comli/Modbus when there is service personal in the station.

Control of remote/local is done via a digital input.

In local position the PCx will not accept that data is set via Comli/Modbus, except for register 333 (Alarm acknowledgement). The address in the Comli/Modbus telegram must start on this register to be accepted.

1.8 PCx as COMLI/MODBUS master

Communication between several PCx.

Often there is a need to remotely block a pumping station from another pumping station if an error occurs.

To be able to control a function like this the PCx can occasionally act as master in the system.

Up to 8 other Comli/Modbus slaves can be addressed from the master PCx, via telephone or fixed line, mixed.

The Master function is activated by timer or IO event. In-between the PCx works as a normal slave unit.

NOTE! Only one master is allowed on a fixed line.
If a central system is connected this normally is the master.

Up to 8 master channels can be set where Comli/Modbus slave identity and ev. tel. no. Are set for each channel.

At dial up communication a recall is made after 10 min if the first call failed, if even this call fails an alarm is sent and the calling is stopped until a new trig condition occurs.

Up to 127 Comli messages can be set up and 127 Modbus messages..

For each message is stated;

IO type: which can be following for Comli.

Closed.	(message type 0 - 3).
Digital IO.	Reg. 0-3071 (message type '0' and '2').
Standard Comli register.	Same as standard but gives scaling possibilities.
Cross ref. register.	See appendices about scaleable Cross reference.
Extended Comli register.	Reg. 0-65535 (message type '<' and '=').

Local IO or register no for IO types:

Read/write: "Read from" or "Write to" slave

Master channel: 1-8. controls which slave is to be in communication .

IO or register no. at Slave :

The master handler checks the messages in number order (1-127) and where it is possible several messages are sent in one telegram. To limit the number of telegrams, the data, which are in sequence in a slave should be in sequence in the master configuration.

When error in the communication the telegram is resent. Failure in re-sending the message the communication is stopped for actual channel and alarm for communications sent.

A new attempt is made when the master communication is triggered again.

1.8.1 Trig of master function:

Under configuration of master channel the required time interval is given separately for each master channel. If 0 is set the timer function is disabled.

Further each IO-number between 0-999 can be set to trigger the master communication each time the status for the IO-number is changed.

IO-trigger affects always all master channels.

1.8.2 Configure analogue inputs for remote data:

With the marker in position for SETTINGS in Analogue inputs the choice "IO-SIGNAL" can be found with the arrow keys. Choose "COMLI/MODBUS IO" and set the register number which contains the required remote data.

For communication with other data register 241-248 and 1960 - 1999

Are free to be used with integer data, and 2000 - 2047 for long data (double register).

NOTE! If the higher register number (Low Word) in a double register is set even data in the register before (High Word) be used by the analogue input.

Data collected from the slave are placed in reg. 1960 - 1999 or 2000-2047 depending on if 16 or 32 bits data content and scaling is set for range of collected data.

If an older UCC-UCP sends data, register 241-246 is used for Analogue in 1-6, and 247-248 for analogue out 1-2 by the older UCC-UCP.

The data interval is 0 - 20000 or 4000 - 20000 depending on sensor signal (older UCC-UCP sends actual mA signal).

Where it is possible it is recommended to use the extended telegram type to avoid conflicts in the cross-reference tables.

2 COMLI/MODBUS IO number layout:

PCx Max. 8 IO-modules

2.1.1 Digital outputs:

Digital Output	DO1	DO2	DO3	DO4	DO5	DO6	DO7	DO8
IO-module 1	0	1	2	3	4	5	6	7
IO-module 2	8	9	10	11	12	13	14	15
IO-module 3	16	17	18	19	20	21	22	23
IO-module 4	24	25	26	27	28	29	30	31
IO-module 5	32	33	34	35	36	37	38	39
IO-module 6	40	41	42	43	44	45	46	47
IO-module 7	48	49	50	51	52	53	54	55
IO-module 8	56	57	58	59	60	61	62	63

2.1.2 Pump status (P1-P16):

Pump	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
Pump running indication *1	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79
Pump Relay *1	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
Pump blocked	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111
Pump reversing *2	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127
Fallen M-protection *3	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143
Pump hand started *1 *5	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159
Pump hand stopped *4 *5	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175
Fallen temp. protector	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191
Status setpoint	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207
Pump valve status *6	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223
End position valve closed	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239
End position valve open	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255
Start float	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911
Stop float	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927
Alarm blockad *7	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943
Actual speed cont. pump *8	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959

2.1.3 Remote control:

- * Remote control of pump related IO numbers. Control is also possible by writing direct to digital outputs, with corresponding configuration.
- *1 Remote control possible. Local conditions will always override remote control. Write 1 to start the pump, 0 to stop.
- *2 Pump reverse is activated by writing 1. Reset to 0 by PCx when sequence is done.
- *3 Reset sequence is activated by writing 1 (Resets retry counter to zero). Writing 0 stops sequence running.
- *4 Write 1 to stop the pump. 0 is ignored.
- *5 Resets to zero by PCx when local control conditions take place.
- *6 Pump valve always follows pump status, no separate control is possible.
- *7 See appendix about "Alarm acknowledgement for restart of pumps".
- *8 Remote manoeuvre for change of speed reg. pump is done by setting required pump to 1, whereby same sequence as by local change with F.630 is made.

2.1.4 Digitala inputs:

Digital input	DI1	DI2	DI3	DI4	DI5	DI6	DI7	DI8	DI9	DI10	DI11	DI12	DI13	DI14	DI15	DI16
IO-modul 1	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271
IO-modul 2	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287
IO-modul 3	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303
IO-modul 4	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319
IO-modul 5	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335
IO-modul 6	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351
IO-modul 7	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367
IO-modul 8	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383

2.1.5 Pump pit valves ventiler:

	PP.1	PP.2	PP.3	PP.4
Valve status:	384	385	386	387
End position closed:	392	393	394	395
End position open:	400	401	402	403

2.1.6 One or more pumps in the pit are blocked trough alarm:

Pump(s) alarm blocked 408 409 410 411*

See appendices about "Alarm acknowledgement for restart of pumps".

2.1.7 Pump pit status:

	PP.1	PP.2	PP.3	PP.4
Sensor error	432	440	448	456
Pump pit blocked	433	441	449	457
Error opening valve	434	442	450	458
Error closing valve	435	443	451	459
Valve error	436	444	452	460
P.P. blocked by valve	437	445	453	461
Not used	438	446	454	462
Not used	439	447	455	463
High level	464	472	480	488
Low level	465	473	481	489
Back-up start	466	474	482	490
High level float	467	475	483	491
Overflow	468	476	484	492
High inflow	469	477	485	493
Low inflow	470	478	486	494
Not used	471	479	487	495

2.1.8 Comb alarm status:

	IO-bit	Octal	Hexadecimal
Not ackn. A-Alarm	496	760	1F0
Not ackn. B-Alarm	497	761	1F1
Not ackn. C-Alarm	498	762	1F2
Active A-Alarm	504	770	1F8
Active B-Alarm	505	771	1F9
Active C-Alarm	506	772	1FA
Ackn Alarm call	511	777	1FF

Same as ackn to reg.333
0=PCx disconnects line,
1=System disconnects line.

2.1.9 Free user area:

Can be used freely for ex. for remote communication or own Comli/Modbus flags. IO-bit 512-799.

2.1.10 Checkrun (F.707):

Pump	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
Pump, Check if running	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815
Pump valve, Check run.	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831

2.1.11 Shift motor:

Shift motor	1	2	3	4
End position MIN	864	880	832	848
End position MAX	865	881	833	849
Blocked	866	882	834	850
Remote position	867	883	835	851
Decrease signal	868	884	836	852
Increase signal	869	885	837	853
DI forced position	870	886	838	854
Error actual value min	872	888	840	856
Error actual value max	873	889	841	857
Error dual end position	874	890	842	858
No A.IN actual value	875	891	843	859
No A.IN set point	876	892	844	860

2.1.12 User IO:

Reserved for user IO
IO 960-967

2.1.13 Status sequential week timer:

Status sequence channel 1-8 976-983

2.1.14 System info:

	IO-bit	Octal	Hexadecimal
Ackn. Personal alarm	992	1740	3E0
Outer personal alarm ON	993	1741	3E1
Local mode	994	1742	3E2
Modem error	995	1743	3E3
Telephone error	996	1744	3E4
Configuration Error	1000	1750	3E8

2.1.15 Alarm status:

	IO-bit	Octal	Hexadecimal
Alarm 1=IO 1024 and so on	1024-2047	2000-3777	400-7FF

Alarm status indicates 1 if alarm is active and 0 when alarm is off, independent of alarm type (A, B or C-Alarm). Alarm numbers, which are set to "Inactive", always show 0. For more info see System manual for PCx.

2.1.16 Latched alarm status:

Alarm 1=IO 2048 and so on	2048-3071	4000-5777	800-BFF
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Latched alarm status is set to 1 when a alarm goes active and are updated after Comli/Modbus readout with actual alarm status. This is made not to loose alarms, which have gone inactive before the call is ready.

2.1.17 Acknowledged alarms:

Alarm 1=IO 3072 and so on	3072-4095	6000-7777	C00-FFF
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Status for acknowledged alarms are set to 0 each time a new alarm occurs and gives the possibility for a central system to acknowledge each alarm individually.

The acknowledgement works the same way as local acknowledgement on PCx and is made by writing a 1 to actual alarm bit. This acknowledgement is time stamped in the local alarm list if the alarm is not acknowledged earlier (Only 1 ackn./alarm can be time stamped).

Even local ackn. In sub station ackn actual IO-bits.

If you don't want to ackn. Each alarm individually the system can ackn. All alarms when the system ackn. To alarm call (write to reg. 333). See paragraph. 818 in manual.

For systems that handle the Comli telegram type for time stamped events (Å-Ä) we recommend that this is used for readout of new alarms.

2.1.18 Copies of Bitmask register for AquaProg:

2.1.19 Time stamp of IO-event

Comli IO 0-1023 (0=OFF 1=ON). IO 4096 controls time stamp of IO 0 and so on

IO-bit	Octal	Hexadecimal
4096-5119	10000-11777	1000-13FF

2.1.20 Trig of Com. master communication

Communication trig when changed status on IO 0-1023 (0=OFF 1=ON). IO 5120 controls trig on IO 0 and so on

IO-bit	Octal	Hexadecimal
5120-6143	12000-13777	1400-17FF

2.1.21 Pump blocking at not ackn. Pump error alarms.

IO number for config. of blocking conditions. 0=No blocking 1=Block until alarm is ackn.

Alarm conditions:	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13	P14	P15	P16
High motor current	6144	6152	6160	6168	6176	6184	6192	6200	6208	6216	6224	6232	6240	6248	6256	6264
Low motor current	6145	6153	6161	6169	6177	6185	6193	6201	6209	6217	6225	6233	6241	6249	6257	6265
Fallen motor protector	6146	6154	6162	6170	6178	6186	6194	6202	6210	6218	6226	6234	6242	6250	6258	6266
Fallen temp. protector	6147	6155	6163	6171	6179	6187	6195	6203	6211	6219	6227	6235	6243	6251	6259	6267
Low pump capacity	6148	6156	6164	6172	6180	6188	6196	6204	6212	6220	6228	6236	6244	6252	6260	6268
Running indication missing	6149	6157	6165	6173	6181	6189	6197	6205	6213	6221	6229	6237	6245	6253	6261	6269
Not used	6150	6158	6166	6174	6182	6190	6198	6206	6214	6222	6230	6238	6246	6254	6262	6270
Not used	6151	6159	6167	6175	6183	6191	6199	6207	6215	6223	6231	6239	6247	6255	6263	6271

2.1.22 Setting of new IO status for sequential clock.

Configuration of new IO status for sequential events. (as bitmask on reg. 11792-11795)

	IO-bit	Octal	Hexadecimal
Sequential event 1-64	6272-6335	14200-14277	1880-18BF

2.2 Cross reference:

IO 0 - 511 can be set into a cross-reference table to collect used IO to an effective Comli/modbus telegram. This means that that for ex. reading of IO 1 can be set to correspond IO 64 (pump running ind. P1) according to specification above.

If you are uncertain that cross reference is active, all IO are mirrored without influence on the cross reference list from IO 8192 and forward (IO 8192=IO 0, IO 8193=IO 1 and so on).

When different systems can be in contact with the sub stations it is recommended that an offset of 8192 generally is added to the IO number when setting up the system if cross reference is not used in the system.

Text add.(Hex)	Description	Scale factor / unit / note
----------------	-------------	----------------------------

2.3 Text addresses:

All text addresses are given in Hex format.

Address (Hex): TEXT (module no: io no)

2.3.1 Analogue Inputs

0000	Analogue	in 1:1	Text
0001	Analogue	in 1:2	Text
0002	Analogue	in 1:3	Text
0003	Analogue	in 1:4	Text
0010	Analogue	in 2:1	Text
0011	Analogue	in 2:2	Text
0012	Analogue	in 2:3	Text
0013	Analogue	in 2:4	Text
0020	Analogue	in 3:1	Text
0021	Analogue	in 3:2	Text
0022	Analogue	in 3:3	Text
0023	Analogue	in 3:4	Text
0030	Analogue	in 4:1	Text
0031	Analogue	in 4:2	Text
0032	Analogue	in 4:3	Text
0033	Analogue	in 4:4	Text
0040	Analogue	in 5:1	Text
0041	Analogue	in 5:2	Text
0042	Analogue	in 5:3	Text
0043	Analogue	in 5:4	Text
0050	Analogue	in 6:1	Text
0051	Analogue	in 6:2	Text
0052	Analogue	in 6:3	Text
0053	Analogue	in 6:4	Text
0060	Analogue	in 7:1	Text
0061	Analogue	in 7:2	Text
0062	Analogue	in 7:3	Text
0063	Analogue	in 7:4	Text
0070	Analogue	in 8:1	Text
0071	Analogue	in 8:2	Text
0072	Analogue	in 8:3	Text
0073	Analogue	in 8:4	Text
0100	Analogue	in 1:1	Unit
0101	Analogue	in 1:2	Unit
0102	Analogue	in 1:3	Unit
0103	Analogue	in 1:4	Unit
0110	Analogue	in 2:1	Unit
0111	Analogue	in 2:2	Unit
0112	Analogue	in 2:3	Unit
0113	Analogue	in 2:4	Unit
0120	Analogue	in 3:1	Unit
0121	Analogue	in 3:2	Unit
0122	Analogue	in 3:3	Unit
0130	Analogue	in 4:1	Unit
0131	Analogue	in 4:2	Unit
0133	Analogue	in 4:4	Unit
0140	Analogue	in 5:1	Unit
0141	Analogue	in 5:2	Unit
0142	Analogue	in 5:3	Unit
0143	Analogue	in 5:4	Unit
0150	Analogue	in 6:1	Unit
0151	Analogue	in 6:2	Unit
0152	Analogue	in 6:3	Unit

Text add.(Hex)	Description	Scale factor / unit / note
0153	Analogue in 6:4	Unit
0160	Analogue in 7:1	Unit
0161	Analogue in 7:2	Unit
0162	Analogue in 7:3	Unit
0163	Analogue in 7:4	Unit
0170	Analogue in 8:1	Unit
0171	Analogue in 8:2	Unit
0172	Analogue in 8:3	Unit
0173	Analogue in 8:4	Unit

2.3.2 Analogue outputs

0200	Analogue out 1:1	Text
0201	Analogue out 1:2	Text
0208	Analogue out 1:1	Unit
0209	Analogue out 1:2	Unit
0210	Analogue out 2:1	Text
0211	Analogue out 2:2	Text
0218	Analogue out 2:1	Unit
0219	Analogue out 2:2	Unit
0220	Analogue out 3:1	Text
0221	Analogue out 3:2	Text
0228	Analogue out 3:1	Unit
0229	Analogue out 3:2	Unit
0230	Analogue out 4:1	Text
0231	Analogue out 4:2	Text
0238	Analogue out 4:1	Unit
0239	Analogue out 4:2	Unit
0240	Analogue out 5:1	Text
0241	Analogue out 5:2	Text
0248	Analogue out 5:1	Unit
0249	Analogue out 5:2	Unit
0250	Analogue out 6:1	Text
0251	Analogue out 6:2	Text
0258	Analogue out 6:1	Unit
0259	Analogue out 6:2	Unit
0260	Analogue out 7:1	Text
0261	Analogue out 7:2	Text
0268	Analogue out 7:1	Unit
0269	Analogue out 7:2	Unit
0270	Analogue out 8:1	Text
0271	Analogue out 8:2	Text
0278	Analogue out 8:1	Unit
0279	Analogue out 8:2	Unit

Text add.(Hex)	Description	Scale factor / unit / note
2.3.3	Digital inputs	
0300	Digital in 1:1	Text
0301	Digital in 1:2	Text
0302	Digital in 1:3	Text
0303	Digital in 1:4	Text
0304	Digital in 1:5	Text
0305	Digital in 1:6	Text
0306	Digital in 1:7	Text
0307	Digital in 1:8	Text
0308	Digital in 1:9	Text
0309	Digital in 1:10	Text
030A	Digital in 1:11	Text
030B	Digital in 1:12	Text
030C	Digital in 1:13	Text
030D	Digital in 1:14	Text
030E	Digital in 1:15	Text
030F	Digital in 1:16	Text
0310	Digital in 2:1	Text
0311	Digital in 2:2	Text
0312	Digital in 2:3	Text
0313	Digital in 2:4	Text
0314	Digital in 2:5	Text
0315	Digital in 2:6	Text
0316	Digital in 2:7	Text
0317	Digital in 2:8	Text
0318	Digital in 2:9	Text
0319	Digital in 2:10	Text
031A	Digital in 2:11	Text
031B	Digital in 2:12	Text
031C	Digital in 2:13	Text
031D	Digital in 2:14	Text
031E	Digital in 2:15	Text
031F	Digital in 2:16	Text
0320	Digital in 3:1	Text
0321	Digital in 3:2	Text
0322	Digital in 3:3	Text
0323	Digital in 3:4	Text
0324	Digital in 3:5	Text
0325	Digital in 3:6	Text
0326	Digital in 3:7	Text
0327	Digital in 3:8	Text
0328	Digital in 3:9	Text
0329	Digital in 3:10	Text
032A	Digital in 3:11	Text
032B	Digital in 3:12	Text
032C	Digital in 3:13	Text
032D	Digital in 3:14	Text
032E	Digital in 3:15	Text
032F	Digital in 3:16	Text
0330	Digital in 4:1	Text
0331	Digital in 4:2	Text
0332	Digital in 4:3	Text
0333	Digital in 4:4	Text
0334	Digital in 4:5	Text
0335	Digital in 4:6	Text
0336	Digital in 4:7	Text
0337	Digital in 4:8	Text

Text add.(Hex)	Description	Scale factor / unit / note
0338	Digital in 4:9	Text
0339	Digital in 4:10	Text
033A	Digital in 4:11	Text
033B	Digital in 4:12	Text
033C	Digital in 4:13	Text
033D	Digital in 4:14	Text
033E	Digital in 4:15	Text
033F	Digital in 4:16	Text
0340	Digital in 5:1	Text
0341	Digital in 5:2	Text
0342	Digital in 5:3	Text
0343	Digital in 5:4	Text
0344	Digital in 5:5	Text
0345	Digital in 5:6	Text
0346	Digital in 5:7	Text
0347	Digital in 5:8	Text
0348	Digital in 5:9	Text
0349	Digital in 5:10	Text
034A	Digital in 5:11	Text
034B	Digital in 5:12	Text
034C	Digital in 5:13	Text
034D	Digital in 5:14	Text
034E	Digital in 5:15	Text
034F	Digital in 5:16	Text
0350	Digital in 6:1	Text
0351	Digital in 6:2	Text
0352	Digital in 6:3	Text
0353	Digital in 6:4	Text
0354	Digital in 6:5	Text
0355	Digital in 6:6	Text
0356	Digital in 6:7	Text
0357	Digital in 6:8	Text
0358	Digital in 6:9	Text
0359	Digital in 6:10	Text
035A	Digital in 6:11	Text
035B	Digital in 6:12	Text
035C	Digital in 6:13	Text
035D	Digital in 6:14	Text
035E	Digital in 6:15	Text
035F	Digital in 6:16	Text
0360	Digital in 7:1	Text
0361	Digital in 7:2	Text
0362	Digital in 7:3	Text
0363	Digital in 7:4	Text
0364	Digital in 7:5	Text
0365	Digital in 7:6	Text
0366	Digital in 7:7	Text
0367	Digital in 7:8	Text
0368	Digital in 7:9	Text
0369	Digital in 7:10	Text
036A	Digital in 7:11	Text
036B	Digital in 7:12	Text
036C	Digital in 7:13	Text
036D	Digital in 7:14	Text
036E	Digital in 7:15	Text
036F	Digital in 7:16	Text
0370	Digital in 8:1	Text
0371	Digital in 8:2	Text

Text add.(Hex)	Description	Scale factor / unit / note
0372	Digital in 8:3	Text
0373	Digital in 8:4	Text
0374	Digital in 8:5	Text
0375	Digital in 8:6	Text
0376	Digital in 8:7	Text
0377	Digital in 8:8	Text
0378	Digital in 8:9	Text
0379	Digital in 8:10	Text
037A	Digital in 8:11	Text
037B	Digital in 8:12	Text
037C	Digital in 8:13	Text
037D	Digital in 8:14	Text
037E	Digital in 8:15	Text
037F	Digital in 8:16	Text

2.3.4 Digital outputs

0400	Digital out 1:1	Text
0401	Digital out 1:2	Text
0402	Digital out 1:3	Text
0403	Digital out 1:4	Text
0404	Digital out 1:5	Text
0405	Digital out 1:6	Text
0406	Digital out 1:7	Text
0407	Digital out 1:8	Text
0410	Digital out 2:1	Text
0411	Digital out 2:2	Text
0412	Digital out 2:3	Text
0413	Digital out 2:4	Text
0414	Digital out 2:5	Text
0415	Digital out 2:6	Text
0416	Digital out 2:7	Text
0417	Digital out 2:8	Text
0420	Digital out 3:1	Text
0421	Digital out 3:2	Text
0422	Digital out 3:3	Text
0423	Digital out 3:4	Text
0424	Digital out 3:5	Text
0425	Digital out 3:6	Text
0426	Digital out 3:7	Text
0427	Digital out 3:8	Text
0430	Digital out 4:1	Text
0431	Digital out 4:2	Text
0432	Digital out 4:3	Text
0433	Digital out 4:4	Text
0434	Digital out 4:5	Text
0435	Digital out 4:6	Text
0436	Digital out 4:7	Text
0437	Digital out 4:8	Text
0440	Digital out 5:1	Text
0441	Digital out 5:2	Text
0442	Digital out 5:3	Text
0443	Digital out 5:4	Text
0444	Digital out 5:5	Text
0445	Digital out 5:6	Text
0446	Digital out 5:7	Text
0447	Digital out 5:8	Text

Text add.(Hex)	Description	Scale factor / unit / note
0450	Digital out 6:1	Text
0451	Digital out 6:2	Text
0452	Digital out 6:3	Text
0453	Digital out 6:4	Text
0454	Digital out 6:5	Text
0455	Digital out 6:6	Text
0456	Digital out 6:7	Text
0457	Digital out 6:8	Text
0460	Digital out 7:1	Text
0461	Digital out 7:2	Text
0462	Digital out 7:3	Text
0463	Digital out 7:4	Text
0464	Digital out 7:5	Text
0465	Digital out 7:6	Text
0466	Digital out 7:7	Text
0467	Digital out 7:8	Text
0470	Digital out 8:1	Text
0471	Digital out 8:2	Text
0472	Digital out 8:3	Text
0473	Digital out 8:4	Text
0474	Digital out 8:5	Text
0475	Digital out 8:6	Text
0476	Digital out 8:7	Text
0477	Digital out 8:8	Text
0500	Flow channel 1	Text
0501	Flow channel 2	Text
0502	Flow channel 3	Text
0503	Flow channel 4	Text
0504	Flow channel 5	Text
0505	Flow channel 6	Text
0506	Flow channel 7	Text
0507	Flow channel 8	Text
0510	Pump pit 1	Text
0511	Pump pit 2	Text
0512	Pump pit 3	Text
0513	Pump pit 4	Text
0520	Pump pit 1	Unit
0521	Pump pit 2	Unit
0522	Pump pit 3	Unit
0523	Pump pit 4	Unit
2.3.5 Flow and pulse texts		
0540	Pulse channel 1	Text
0541	Pulse channel 2	Text
0542	Pulse channel 3	Text
0543	Pulse channel 4	Text
0544	Pulse channel 5	Text
0545	Pulse channel 6	Text
0546	Pulse channel 7	Text
0547	Pulse channel 8	Text
0550	Pulse channel 1	Unit actual value
0551	Pulse channel 2	Unit actual value
0552	Pulse channel 3	Unit actual value
0553	Pulse channel 4	Unit actual value
0554	Pulse channel 5	Unit actual value

Text add.(Hex)	Description	Scale factor / unit / note
0555	Pulse channel 6	Unit actual value
0556	Pulse channel 7	Unit actual value
0557	Pulse channel 8	Unit actual value
0560	Pulse channel 1	Accumulated Unit
0561	Pulse channel 2	Accumulated Unit
0562	Pulse channel 3	Accumulated Unit
0563	Pulse channel 4	Accumulated Unit
0564	Pulse channel 5	Accumulated Unit
0565	Pulse channel 6	Accumulated Unit
0566	Pulse channel 7	Accumulated Unit
0567	Pulse channel 8	Accumulated Unit

2.3.6 Set-point units for pumps

0580	Pump 1	Set-point unit
0581	Pump 2	Set-point unit
0582	Pump 3	Set-point unit
0583	Pump 4	Set-point unit
0584	Pump 5	Set-point unit
0585	Pump 6	Set-point unit
0586	Pump 7	Set-point unit
0587	Pump 8	Set-point unit
0588	Pump 9	Set-point unit
0589	Pump 10	Set-point unit
058A	Pump 11	Set-point unit
058B	Pump 12	Set-point unit
058C	Pump 13	Set-point unit
058D	Pump 14	Set-point unit
058E	Pump 15	Set-point unit
058F	Pump 16	Set-point unit

2.3.7 PID controller

0600	Text Actual value PID Contr. 1
0601	Text Actual value PID Contr. 2
0610	Unit Actual value PID Controller. 1
0611	Unit Actual value PID Controller 2
0620	Text Set-point PID Contr. 1
0621	Text Set-point PID Contr. 2
0630	Unit Set-point PID Contr. 1
0631	Unit Set-point PID Contr. 2

2.3.8 Shift motor

0640	Unit Actual value shift motor 1
0641	Unit Actual value shift motor 2
0642	Unit Actual value shift motor 3
0643	Unit Actual value shift motor 4

2.3.9 Texts for key 6 data

0700	Description parameter 1
0701	Description parameter 2
0702	Description parameter 3
0703	Description parameter 4
0704	Description parameter 5
0705	Description parameter 6
0706	Description parameter 7
0707	Description parameter 8
0708	Description parameter 9
0709	Description parameter 10

Text add.(Hex)	Description	Scale factor / unit / note
070A	Description parameter 11	
070B	Description parameter 12	
070C	Description parameter 13	
070D	Description parameter 14	
070E	Description parameter 15	
070F	Description parameter 16	
0710	Description parameter 17	
0711	Description parameter 18	
0712	Description parameter 19	
0713	Description parameter 20	
0714	Description parameter 21	
0715	Description parameter 22	
0716	Description parameter 23	
0717	Description parameter 24	
0720	Unit parameter 1	
0721	Unit parameter 2	
0722	Unit parameter 3	
0723	Unit parameter 4	
0724	Unit parameter 5	
0725	Unit parameter 6	
0726	Unit parameter 7	
0727	Unit parameter 8	
0728	Unit parameter 9	
0729	Unit parameter 10	
072A	Unit parameter 11	
072B	Unit parameter 12	
072C	Unit parameter 13	
072D	Unit parameter 14	
072E	Unit parameter 15	
072F	Unit parameter 16	
0730	Unit parameter 17	
0731	Unit parameter 18	
0732	Unit parameter 19	
0733	Unit parameter 20	
0734	Unit parameter 21	
0735	Unit parameter 22	
0736	Unit parameter 23	
0737	Unit parameter 24	
2.3.10	Tele and alarm set-up	
0801	Tel. no Alarm call 1	
0802	Tel. no Alarm call 2	
0803	Tel. no Alarm call 3	
0804	Tel. no Alarm call 4	
080B	SMS number for GPRS fallback (V1.31)	
0810	Com 1: Extra Hayes init. before calling	
0811	Com 1: Hayes init. after disconnecting line	
0812	Com 1: PIN code for GSM modem	
0813	Com 1: PUK code for GSM modem	
0814	Com 1: GSM modem SMSC number	
0818	GPRS user name (blank for AquaWeb).	
0819	GPRS password (blank for AquaWeb).	
081A	Local (GPRS modem) IP address	
0820	Com 2: Extra Hayes init. before calling	
0821	Com 2: Hayes init. after disconnecting line	
0822	Com 2: PIN code for GSM modem	
0823	Com 2: PUK code for GSM modem	
0824	Com 2: GSM modem SMSC number	

Text add.(Hex)	Description	Scale factor / unit / note
0830	Station name	
0840	Minicall send number (THS)	
0841	Minicall send password	
0842	Minicall Number Receiver 1	
0843	Minicall Number Receiver 2	
0844	Minicall Number Receiver 3	
0845	Minicall Number Receiver 4	
0846	Minicall Extra HAYES init. before alarm dialup.	
0848	GSM / Minicall Sender Number (UCP)	
0849	GSM / Minicall Sender code	
084A	GSM / Minicall Number Receiver 1	
084B	GSM / Minicall Number Receiver 2	
084C	GSM / Minicall Number Receiver 3	
084D	GSM / Minicall Number Receiver 4	
0850	Com 3: Extra Hayes init. before calling	
0851	Com 3: Hayes init. after disconnecting line	
0852	Com 3: PIN code for GSM modem	
0853	Com 3: PUK code for GSM modem	
0854	Com 3: GSM modem SMSC number	
0860	Com 4: Extra Hayes init. before calling	
0861	Com 4: Hayes init. after disconnecting line	
0862	Com 4: PIN code for GSM modem	
0863	Com 4: PUK code for GSM modem	
0864	Com 4: GSM modem SMSC number	
0870	Com 5: Extra Hayes init. before calling	
0871	Com 5: Hayes init. after disconnecting line	
0872	Com 5: PIN code for GSM modem	
0873	Com 5: PUK code for GSM modem	
0874	Com 5: GSM modem SMSC number	
0880	Com 6: Extra Hayes init. before calling	
0881	Com 6: Hayes init. after disconnecting line	
0882	Com 6: PIN code for GSM modem	
0883	Com 6: PUK code for GSM modem	
0884	Com 6: GSM modem SMSC number	
0890	Com 7: Extra Hayes init. before calling	
0891	Com 7: Hayes init. after disconnecting line	
0892	Com 7: PIN code for GSM modem	
0893	Com 7: PUK code for GSM modem	
0894	Com 7: GSM modem SMSC number	
08A0	Com 8: Extra Hayes init. before calling	
08A1	Com 8: Hayes init. after disconnecting line	
08A2	Com 8: PIN code for GSM modem	
08A3	Com 8: PUK code for GSM modem	
08A4	Com 8: GSM modem SMSC number	
0900	Alarm: Name 1 Personal ackn.	
0901	Alarm: Name 2 Personal ackn	
0902	Alarm: Name 3 Personal ackn	
0903	Alarm: Name 4 Personal ackn	
0904	Alarm: Name 5 Personal ackn	

Text add.(Hex)	Description	Scale factor / unit / note
0905	Alarm: Name 6 Personal ackn	
0906	Alarm: Name 7 Personal ackn	
0907	Alarm: Name 8 Personal ackn	
0908	Alarm: Name 9 Personal ackn	
0910	Tel. no Comli/Modbus master channel 1 (at called line) max 16 chars.	
0911	Tel. no Comli/Modbus master channel 2 (at called line) max 16 chars.	
0912	Tel. no Comli/Modbus master channel 3 (at called line) max 16 chars.	
0913	Tel. no Comli/Modbus master channel 4 (at called line) max 16 chars.	
0914	Tel. no Comli/Modbus master channel 5 (at called line) max 16 chars.	
0915	Tel. no Comli/Modbus master channel 6 (at called line) max 16 chars.	
0916	Tel. no Comli/Modbus master channel 7 (at called line) max 16 chars.	
0917	Tel. no Comli/Modbus master channel 8 (at called line) max 16 chars.	

2.3.11 GPRS modem status

0A00	Manufacturer
0A01	Model
0A02	Firmware
0A03	SIM card ID
0A04	Subscriber ID
0A05	Equipment ID
0A06	Connect error cause
0A07	Operator
0A08	Operator 2
0A09	Operator 3
0A0A	Operator 4
0A0B	Operator 5
0A0C	Operator 6
0A0D	Operator 7
0A0E	Cell info
0A0F	Cell 2 info
0A10	Cell 3 info
0A11	Cell 4 info
0A02	Cell 5 info
0A13	Cell 6 info
0A14	Cell 7 info

2.3.12 Actual display text:

0F00	Text PCx display, row 1
0F01	Text PCx display, row 2
0F02	Text PCx display, row 3
0F03	Text PCx display, row 4

2.3.13 Alarm text:

1000	Text alarm number 1
1001	Text alarm number 2

and so on.

2.3.14 IO texts:

1800	IO-bit 0
1801	IO-bit 1
...	
1BFF	IO-bit 1023

Text add.(Hex)	Description	Scale factor / unit / note
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2.3.15 Digital history time stamped events in chronological order.

(ALARM ON/OFF/ACKN., D.IN-D.OUT ON/OFF)

TEXTS like date (yymmddmmss) [TAB] event type [TAB] source.
Tab. Separation between fields.

NOTE! Doubles may occur if new event happens during read out

2000	Last time stamped event	
2001	Event before last	
2002	and so on. Max 4096 events backwards	
2FFF		

2.3.16 Digital history time stamped events in numerical order.

3800	Text event number 1	
3801	Text event number 2	
3802	and so on. Max 4096 events!	
3FFF		

2.3.17 Log texts: Only readable

E000	Text Log channel 0	
E010	Unit Log channel 0	
E020	Text Log channel 1	
E030	Unit Log channel 1	
E040	Text Log channel 2	
E050	Unit Log channel 2	
E060	Text Log channel 3	
E070	Unit Log channel 3	
E080	Text Log channel 4	
E090	Unit Log channel 4	
E0A0	Text Log channel 5	
E0B0	Unit Log channel 5	
E0C0	Text Log channel 6	
E0D0	Unit Log channel 6	
E0E0	Text Log channel 7	
E0F0	Unit Log channel 7	
E100	Text Log channel 8	
E110	Unit Log channel 8	
E120	Text Log channel 9	
E130	Unit Log channel 9	
E140	Text Log channel 10	
E150	Unit Log channel 10	
E160	Text Log channel 11	
E170	Unit Log channel 11	
E180	Text Log channel 12	
E190	Unit Log channel 12	
E1A0	Text Log channel 13	
E1B0	Unit Log channel 13	
E1C0	Text Log channel 14	
E1D0	Unit Log channel 14	
E1E0	Text Log channel 15	
E1F0	Unit Log channel 15	
E200	Text Log channel 16	
E210	Unit Log channel 16	
E220	Text Log channel 17	
E230	Unit Log channel 17	
E240	Text Log channel 18	

Text add.(Hex)	Description	Scale factor / unit / note
E250	Unit Log channel 18	
E260	Text Log channel 19	
E270	Unit Log channel 19	
E280	Text Log channel 20	
E290	Unit Log channel 20	
E2A0	Text Log channel 21	
E2B0	Unit Log channel 21	
E2C0	Text Log channel 22	
E2D0	Unit Log channel 22	
E2E0	Text Log channel 23	
E2F0	Unit Log channel 23	
E300	Text Log channel 24	
E310	Unit Log channel 24	
E320	Text Log channel 25	
E330	Unit Log channel 25	
E340	Text Log channel 26	
E350	Unit Log channel 26	
E360	Text Log channel 27	
E370	Unit Log channel 27	
E380	Text Log channel 28	
E390	Unit Log channel 28	
E3A0	Text Log channel 29	
E3B0	Unit Log channel 29	
E3C0	Text Log channel 30	
E3D0	Unit Log channel 30	
E3E0	Text Log channel 31	
E3F0	Unit Log channel 31	

Register no	Description	Scale factor / unit / note
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3 PCx COMLI /Modbus Register

3.1.1 Remote / Local status

0	Local Mode	1 if data write is disabled
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3.1.2 Analogue status 0-65535 for scaled range

1	Level Pump pit 1
2	Level Pump pit 2
3	Level Pump pit 3
4	Level Pump pit 4
5	Inflow Pump pit 1
6	Inflow Pump pit 2
7	Inflow Pump pit 3
8	Inflow Pump pit 4
9	Outflow Pump pit 1
10	Outflow Pump pit 2
11	Outflow Pump pit 3
12	Outflow Pump pit 4
13	Overflow Pump pit 1
14	Overflow Pump pit 2
15	Overflow Pump pit 3
16	Overflow Pump pit 4
17	Actual value Flow meter 1
18	Actual value Flow meter 2
19	Actual value Flow meter 3
20	Actual value Flow meter 4
21	Overflow level Pump pit 1
22	Overflow level Pump pit 2
23	Overflow level Pump pit 3
24	Overflow level Pump pit 4
25	Flow level Flow meter 1
26	Flow level Flow meter 2
27	Flow level Flow meter 3
28	Flow level Flow meter 4
29	Actual value Pulse channel 1
30	Actual value Pulse channel 2
31	Actual value Pulse channel 3
32	Actual value Pulse channel 4
33	Actual value Pulse channel 5
34	Actual value Pulse channel 6
35	Actual value Pulse channel 7
36	Actual value Pulse channel 8
37	Actual value A.in 1:1
38	Actual value A.in 1:2
39	Actual value A.in 1:3
40	Actual value A.in 1:4
41	Actual value A.in 2:1
42	Actual value A.in 2:2
43	Actual value A.in 2:3
44	Actual value A.in 2:4
45	Actual value A.in 3:1
46	Actual value A.in 3:2
47	Actual value A.in 3:3
48	Actual value A.in 3:4
49	Actual value A.in 4:1
50	Actual value A.in 4:2
51	Actual value A.in 4:3
52	Actual value A.in 4:4
53	Actual value A.in 5:1

Register no	Description	Scale factor / unit / note
54	Actual value A.in 5:2	
55	Actual value A.in 5:3	
56	Actual value A.in 5:4	
57	Actual value A.in 6:1	
58	Actual value A.in 6:2	
59	Actual value A.in 6:3	
60	Actual value A.in 6:4	
61	Actual value A.in 7:1	
62	Actual value A.in 7:2	
63	Actual value A.in 7:3	
64	Actual value A.in 7:4	
65	Actual value A.in 8:1	
66	Actual value A.in 8:2	
67	Actual value A.in 8:3	
68	Actual value A.in 8:4	
69	Actual output signal A.out 1:1	
70	Actual output signal A.out 1:2	
71	Actual output signal A.out 2:1	
72	Actual output signal A.out 2:2	
73	Actual output signal A.out 3:1	
74	Actual output signal A.out 3:2	
75	Actual output signal A.out 4:1	
76	Actual output signal A.out 4:2	
77	Actual output signal A.out 5:1	
78	Actual output signal A.out 5:2	
79	Actual output signal A.out 6:1	
80	Actual output signal A.out 6:2	
81	Actual output signal A.out 7:1	
82	Actual output signal A.out 7:2	
83	Actual output signal A.out 8:1	
84	Actual output signal A.out 8:2	
3.1.3	Sequence timer, current data value	
86	Actual data value sequence channel 1	0-65635 from last sequence event.
87	Actual data value sequence channel 2	0-65635 from last sequence event.
88	Actual data value sequence channel 3	0-65635 from last sequence event.
89	Actual data value sequence channel 4	0-65635 from last sequence event.
90	Actual data value sequence channel 5	0-65635 from last sequence event.
91	Actual data value sequence channel 6	0-65635 from last sequence event.
92	Actual data value sequence channel 7	0-65635 from last sequence event.
93	Actual data value sequence channel 8	0-65635 from last sequence event.
3.1.4	No of pumps / pump pit	
94	Total no of pumps PP 1	
95	No of available pumps PP 1	(not blocked by any error)
96	Total no of pumps PP 2	
97	No of available pumps PP 2	(not blocked by any error)
98	Total no of pumps PP 3	
99	No of available pumps PP 3	(not blocked by any error)
100	Total no of pumps PP 4	
101	No of available pumps PP 4	(not blocked by any error)
3.1.5	Actual volume in pump pit	
102 + 103	Volume pump pit 1	litre
104 + 105	Volume pump pit 2	litre
106 + 107	Volume pump pit 3	litre
108 + 109	Volume pump pit 4	litre

Register no	Description	Scale factor / unit / note
3.1.6 Alarm status		
110	Unacknowledged alarms	Bit mask Bit 0=A, 1=B, 2=C alarm
111	Active alarms	Bit mask Bit 0=A, 1=B, 2=C alarm
3.1.7 Actual values in engineering units		
112 + 113	In pressure Pump group 1	0.01 bar
114 + 115	In pressure Pump group 2	0.01 bar
116 + 117	In pressure Pump group 3	0.01 bar
118 + 119	In pressure Pump group 4	0.01 bar
120 + 121	Motor current Pump 1	0.01 A
122 + 123	Motor current Pump 2	0.01 A
124 + 125	Motor current Pump 3	0.01 A
126 + 127	Motor current Pump 4	0.01 A
128 + 129	Motor current Pump 5	0.01 A
130 + 131	Motor current Pump 6	0.01 A
132 + 133	Motor current Pump 7	0.01 A
134 + 135	Motor current Pump 8	0.01 A
136 + 137	Motor current Pump 9	0.01 A
138 + 139	Motor current Pump 10	0.01 A
140 + 141	Motor current Pump 11	0.01 A
142 + 143	Motor current Pump 12	0.01 A
144 + 145	Motor current Pump 13	0.01 A
146 + 147	Motor current Pump 14	0.01 A
148 + 149	Motor current Pump 15	0.01 A
150 + 151	Motor current Pump 16	0.01 A
152 + 153	Level / pressure Pump pit 1	0.01 m / bar
154 + 155	Level / pressure Pump pit 2	0.01 m / bar
156 + 157	Level / pressure Pump pit 3	0.01 m / bar
158 + 159	Level / pressure Pump pit 4	0.01 m / bar
160 + 161	Inflow Pump pit 1	0.1 l/s
162 + 163	Inflow Pump pit 2	0.1 l/s
164 + 165	Inflow Pump pit 3	0.1 l/s
166 + 167	Inflow Pump pit 4	0.1 l/s
168 + 169	Outflow Pump pit 1	0.1 l/s
170 + 171	Outflow Pump pit 2	0.1 l/s
172 + 173	Outflow Pump pit 3	0.1 l/s
174 + 175	Outflow Pump pit 4	0.1 l/s
176 + 177	Overflow Pump pit 1	0.001 l/s
178 + 179	Overflow Pump pit 2	0.001 l/s
180 + 181	Overflow Pump pit 3	0.001 l/s
182 + 183	Overflow Pump pit 4	0.001 l/s
184 + 185	Actual value Flow meter 1	0.001 l/s
186 + 187	Actual value Flow meter 2	0.001 l/s
188 + 189	Actual value Flow meter 3	0.001 l/s
190 + 191	Actual value Flow meter 4	0.001 l/s
192 + 193	Overflow Pump pit 1	0.001 m ³ /h
194 + 195	Overflow Pump pit 2	0.001 m ³ /h
196 + 197	Overflow Pump pit 3	0.001 m ³ /h
198 + 199	Overflow Pump pit 4	0.001 m ³ /h
200 + 201	Actual value Flow meter 1	0.001 m ³ /h
202 + 203	Actual value Flow meter 2	0.001 m ³ /h
204 + 205	Actual value Flow meter 3	0.001 m ³ /h
206 + 207	Actual value Flow meter 4	0.001 m ³ /h
208 + 209	Overflow level Pump pit 1	0.001 m
210 + 211	Overflow level Pump pit 2	0.001 m
212 + 213	Overflow level Pump pit 3	0.001 m
214 + 215	Overflow level Pump pit 4	0.001 m
216 + 217	Flow level Flow meter 1	0.001 m

Register no	Description	Scale factor / unit / note
218 + 219	Flow level Flow meter 2	0.001 m
220 + 221	Flow level Flow meter 3	0.001 m
222 + 223	Flow level Flow meter 4	0.001 m
3.1.8 Information about analogue log data		
224	Channel index (signal id)	Written by master
225	Block index (day)	Written by master
226	16/32 bit log data	
227	No of values in block	
228	Size of block	
229	No of data blocks	
230	Log. interval	sec
231	Log mode	0=OFF, 1=Current, 2=Average, 3=Min., 4=Max.
232	No of values in block	Reg. 232-236 only for
233	Size of block	UCP/UCC compatible 16-bit log data
234	No of data blocks	
235	Log. interval	sec
236	Log mode	0=OFF, 1=Current, 2=Average, 3=Min., 4=Max.
237	Decimal count	
3.1.9 Reserved for data from UCP/UCC		
241	UCP/UCC A.in 1	0.001 mA
242	UCP/UCC A.in 2	0.001 mA
243	UCP/UCC A.in 3	0.001 mA
244	UCP/UCC A.in 4	0.001 mA
245	UCP/UCC A.in 5	0.001 mA
246	UCP/UCC A.in 6	0.001 mA
247	UCP/UCC A.out 1	0.001 mA
248	UCP/UCC A.out 2	0.001 mA
3.1.10 Local signal to UCPCOM		
255	Fixed value	Always returns 1
3.1.11 No of pumps running		
258	No of pumps running in pump pit 1	
259	No of pumps running in pump pit 2	
260	No of pumps running in pump pit 3	
261	No of pumps running in pump pit 4	
3.1.12 Current motor speed for PID controlled pump groups		
262	RPM PG.1	0.1 %
263	RPM PG.2	0.1 %
3.1.13 Analogue inputs in engineering units, according to A.in. set-up		
264 + 265	Analogue in 1 IO-module 1	Range according to A.in. set-up
266 + 267	Analogue in 2 IO-module 1	Range according to A.in. set-up
268 + 269	Analogue in 3 IO-module 1	Range according to A.in. set-up
270 + 271	Analogue in 4 IO-module 1	Range according to A.in. set-up
272 + 273	Analogue in 1 IO-module 2	Range according to A.in. set-up
274 + 275	Analogue in 2 IO-module 2	Range according to A.in. set-up
276 + 277	Analogue in 3 IO-module 2	Range according to A.in. set-up
278 + 279	Analogue in 4 IO-module 2	Range according to A.in. set-up
280 + 281	Analogue in 1 IO-module 3	Range according to A.in. set-up
282 + 283	Analogue in 2 IO-module 3	Range according to A.in. set-up
284 + 285	Analogue in 3 IO-module 3	Range according to A.in. set-up
286 + 287	Analogue in 4 IO-module 3	Range according to A.in. set-up

Register no	Description	Scale factor / unit / note
288 + 289	Analogue in 1 IO-module 4	Range according to A.in. set-up
290 + 291	Analogue in 2 IO-module 4	Range according to A.in. set-up
292 + 293	Analogue in 3 IO-module 4	Range according to A.in. set-up
294 + 295	Analogue in 4 IO-module 4	Range according to A.in. set-up
296 + 297	Analogue in 1 IO-module 5	Range according to A.in. set-up
298 + 299	Analogue in 2 IO-module 5	Range according to A.in. set-up
300 + 301	Analogue in 3 IO-module 5	Range according to A.in. set-up
302 + 303	Analogue in 4 IO-module 5	Range according to A.in. set-up
304 + 305	Analogue in 1 IO-module 6	Range according to A.in. set-up
306 + 307	Analogue in 2 IO-module 6	Range according to A.in. set-up
308 + 309	Analogue in 3 IO-module 6	Range according to A.in. set-up
310 + 311	Analogue in 4 IO-module 6	Range according to A.in. set-up
312 + 313	Analogue in 1 IO-module 7	Range according to A.in. set-up
314 + 315	Analogue in 2 IO-module 7	Range according to A.in. set-up
316 + 317	Analogue in 3 IO-module 7	Range according to A.in. set-up
318 + 319	Analogue in 4 IO-module 7	Range according to A.in. set-up
320 + 321	Analogue in 1 IO-module 8	Range according to A.in. set-up
322 + 323	Analogue in 2 IO-module 8	Range according to A.in. set-up
324 + 325	Analogue in 3 IO-module 8	Range according to A.in. set-up
326 + 327	Analogue in 4 IO-module 8	Range according to A.in. set-up

3.1.14 Real time clock

328	YEAR	00-99	
329	Month		1-12
330	Day		1-31
331	Hour		0-23
332	Minute		0-59

3.1.15 Acknowledge alarm dialup

333	Write to acknowledge alarm dialup	for value 1, master takes response for disconnecting
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3.1.16 Analogue outputs

336	Analogue out 1 Module 1	0.001 mA
337	Analogue out 2 Module 1	0.001 mA
338	Analogue out 1 Module 2	0.001 mA
339	Analogue out 2 Module 2	0.001 mA
340	Analogue out 1 Module 3	0.001 mA
341	Analogue out 2 Module 3	0.001 mA
342	Analogue out 1 Module 4	0.001 mA
343	Analogue out 2 Module 4	0.001 mA
344	Analogue out 1 Module 5	0.001 mA
345	Analogue out 2 Module 5	0.001 mA
346	Analogue out 1 Module 6	0.001 mA
347	Analogue out 2 Module 6	0.001 mA
348	Analogue out 1 Module 7	0.001 mA
349	Analogue out 2 Module 7	0.001 mA
350	Analogue out 1 Module 8	0.001 mA
351	Analogue out 2 Module 8	0.001 mA

3.1.17 Pulse inputs, actual flow

352 + 353	Actual value Pulse channel 1	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
354 + 355	Actual value Pulse channel 2	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
356 + 357	Actual value Pulse channel 3	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
358 + 359	Actual value Pulse channel 4	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
360 + 361	Actual value Pulse channel 5	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
362 + 363	Actual value Pulse channel 6	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
364 + 365	Actual value Pulse channel 7	0.1 flow unit (l/s, m3/h, kW, l/s*ha)
366 + 367	Actual value Pulse channel 8	0.1 flow unit (l/s, m3/h, kW, l/s*ha)

Register no	Description	Scale factor / unit / note
3.1.18 Pump capacity from last calculation		
368 + 369	Last calculated capacity Pump 1	0.1 l/s
370 + 371	Last calculated capacity Pump 2	0.1 l/s
372 + 373	Last calculated capacity Pump 3	0.1 l/s
374 + 375	Last calculated capacity Pump 4	0.1 l/s
376 + 377	Last calculated capacity Pump 5	0.1 l/s
378 + 379	Last calculated capacity Pump 6	0.1 l/s
380 + 381	Last calculated capacity Pump 7	0.1 l/s
382 + 383	Last calculated capacity Pump 8	0.1 l/s
384 + 385	Last calculated capacity Pump 9	0.1 l/s
386 + 387	Last calculated capacity Pump 10	0.1 l/s
388 + 389	Last calculated capacity Pump 11	0.1 l/s
390 + 391	Last calculated capacity Pump 12	0.1 l/s
392 + 393	Last calculated capacity Pump 13	0.1 l/s
394 + 395	Last calculated capacity Pump 14	0.1 l/s
396 + 397	Last calculated capacity Pump 15	0.1 l/s
398 + 399	Last calculated capacity Pump 16	0.1 l/s
3.1.19 Pump capacity		
400	Nominal value Pump 1	0.1 l/s Normalised median value as 3 of 5 last calculations
401	Nominal value Pump 2	0.1 l/s Normalised median value as 3 of 5 last calculations
402	Nominal value Pump 3	0.1 l/s Normalised median value as 3 of 5 last calculations
403	Nominal value Pump 4	0.1 l/s Normalised median value as 3 of 5 last calculations
404	Nominal value Pump 5	0.1 l/s Normalised median value as 3 of 5 last calculations
405	Nominal value Pump 6	0.1 l/s Normalised median value as 3 of 5 last calculations
406	Nominal value Pump 7	0.1 l/s Normalised median value as 3 of 5 last calculations
407	Nominal value Pump 8	0.1 l/s Normalised median value as 3 of 5 last calculations
408	Nominal value Pump 9	0.1 l/s Normalised median value as 3 of 5 last calculations
409	Nominal value Pump 10	0.1 l/s Normalised median value as 3 of 5 last calculations
410	Nominal value Pump 11	0.1 l/s Normalised median value as 3 of 5 last calculations
411	Nominal value Pump 12	0.1 l/s Normalised median value as 3 of 5 last calculations
412	Nominal value Pump 13	0.1 l/s Normalised median value as 3 of 5 last calculations
413	Nominal value Pump 14	0.1 l/s Normalised median value as 3 of 5 last calculations
414	Nominal value Pump 15	0.1 l/s Normalised median value as 3 of 5 last calculations
415	Nominal value Pump 16	0.1 l/s Normalised median value as 3 of 5 last calculations
416	7 days average value Pump 1	0.1 l/s
417	7 days average value Pump 2	0.1 l/s
418	7 days average value Pump 3	0.1 l/s
419	7 days average value Pump 4	0.1 l/s
420	7 days average value Pump 5	0.1 l/s
421	7 days average value Pump 6	0.1 l/s
422	7 days average value Pump 7	0.1 l/s
423	7 days average value Pump 8	0.1 l/s
424	7 days average value Pump 9	0.1 l/s
425	7 days average value Pump 10	0.1 l/s
426	7 days average value Pump 11	0.1 l/s
427	7 days average value Pump 12	0.1 l/s
428	7 days average value Pump 13	0.1 l/s
429	7 days average value Pump 14	0.1 l/s
430	7 days average value Pump 15	0.1 l/s
431	7 days average value Pump 16	0.1 l/s

Register no	Description	Scale factor / unit / note
3.1.20 GPRS Status		
432	GPRS connect status	0=dsisconnected, 1=reconnecting, 2=connected
433	urc.ProfileId	From last ^SIS msg
434	urc.Cause	From last ^SIS msg
435	urc.InfoId	From last ^SIS msg
436	Previous urc.Ifold	^SIS msg before last
3.1.21 General info		
440	Enable Comli/Modbus crossreference table on actual com.port	0/1 Mirror of reg. 441 or 442
441	Enable Comli/Modbus crossreference table on Com1:	0/1 (also on reg. 12001)
442	Enable Comli/Modbus crossreference table on Com2:	0/1 (also on reg. 12005)
443	Program version	100 =1.00
444	Special version (customer specific)	0 = Standard version
445	Type of basic IO module	1 = Old UCC, 2 = IO 86, 3 = IO 168, 17=PCx
446	CPU clock frekvency	1/1000 in MHz and three decimals
447	program version in hex. numbers	1.00= 0x100
3.1.22 Pump capacity 7 days backwards		
448	Average value today Pump 1	0.1 l/s
449	Average value today Pump 2	0.1 l/s
450	Average value today Pump 3	0.1 l/s
451	Average value today Pump 4	0.1 l/s
452	Average value today Pump 5	0.1 l/s
453	Average value today Pump 6	0.1 l/s
454	Average value today Pump 7	0.1 l/s
455	Average value today Pump 8	0.1 l/s
456	Average value today Pump 9	0.1 l/s
457	Average value today Pump 10	0.1 l/s
458	Average value today Pump 11	0.1 l/s
459	Average value today Pump 12	0.1 l/s
460	Average value today Pump 13	0.1 l/s
461	Average value today Pump 14	0.1 l/s
462	Average value today Pump 15	0.1 l/s
463	Average value today Pump 16	0.1 l/s
464	Average value yesterday Pump 1	0.1 l/s
465	Average value yesterday Pump 2	0.1 l/s
466	Average value yesterday Pump 3	0.1 l/s
467	Average value yesterday Pump 4	0.1 l/s
468	Average value yesterday Pump 5	0.1 l/s
469	Average value yesterday Pump 6	0.1 l/s
470	Average value yesterday Pump 7	0.1 l/s
471	Average value yesterday Pump 8	0.1 l/s
472	Average value yesterday Pump 9	0.1 l/s
473	Average value yesterday Pump 10	0.1 l/s
474	Average value yesterday Pump 11	0.1 l/s
475	Average value yesterday Pump 12	0.1 l/s
476	Average value yesterday Pump 13	0.1 l/s
477	Average value yesterday Pump 14	0.1 l/s
478	Average value yesterday Pump 15	0.1 l/s
479	Average value yesterday Pump 16	0.1 l/s
480	Average value 2 days ago Pump 1	0.1 l/s
481	Average value 2 days ago Pump 2	0.1 l/s
482	Average value 2 days ago Pump 3	0.1 l/s
483	Average value 2 days ago Pump 4	0.1 l/s
484	Average value 2 days ago Pump 5	0.1 l/s
485	Average value 2 days ago Pump 6	0.1 l/s
486	Average value 2 days ago Pump 7	0.1 l/s
487	Average value 2 days ago Pump 8	0.1 l/s

Register no	Description	Scale factor / unit / note
488	Average value 2 days ago Pump 9	0.1 l/s
489	Average value 2 days ago Pump 10	0.1 l/s
490	Average value 2 days ago Pump 11	0.1 l/s
491	Average value 2 days ago Pump 12	0.1 l/s
492	Average value 2 days ago Pump 13	0.1 l/s
493	Average value 2 days ago Pump 14	0.1 l/s
494	Average value 2 days ago Pump 15	0.1 l/s
495	Average value 2 days ago Pump 16	0.1 l/s
496	Average value 3 days ago Pump 1	0.1 l/s
497	Average value 3 days ago Pump 2	0.1 l/s
498	Average value 3 days ago Pump 3	0.1 l/s
499	Average value 3 days ago Pump 4	0.1 l/s
500	Average value 3 days ago Pump 5	0.1 l/s
501	Average value 3 days ago Pump 6	0.1 l/s
502	Average value 3 days ago Pump 7	0.1 l/s
503	Average value 3 days ago Pump 8	0.1 l/s
504	Average value 3 days ago Pump 9	0.1 l/s
505	Average value 3 days ago Pump 10	0.1 l/s
506	Average value 3 days ago Pump 11	0.1 l/s
507	Average value 3 days ago Pump 12	0.1 l/s
508	Average value 3 days ago Pump 13	0.1 l/s
509	Average value 3 days ago Pump 14	0.1 l/s
510	Average value 3 days ago Pump 15	0.1 l/s
511	Average value 3 days ago Pump 16	0.1 l/s
512	Average value 4 days ago Pump 1	0.1 l/s
513	Average value 4 days ago Pump 2	0.1 l/s
514	Average value 4 days ago Pump 3	0.1 l/s
515	Average value 4 days ago Pump 4	0.1 l/s
516	Average value 4 days ago Pump 5	0.1 l/s
517	Average value 4 days ago Pump 6	0.1 l/s
518	Average value 4 days ago Pump 7	0.1 l/s
519	Average value 4 days ago Pump 8	0.1 l/s
520	Average value 4 days ago Pump 9	0.1 l/s
521	Average value 4 days ago Pump 10	0.1 l/s
522	Average value 4 days ago Pump 11	0.1 l/s
523	Average value 4 days ago Pump 12	0.1 l/s
524	Average value 4 days ago Pump 13	0.1 l/s
525	Average value 4 days ago Pump 14	0.1 l/s
526	Average value 4 days ago Pump 15	0.1 l/s
527	Average value 4 days ago Pump 16	0.1 l/s
528	Average value 5 days ago Pump 1	0.1 l/s
529	Average value 5 days ago Pump 2	0.1 l/s
530	Average value 5 days ago Pump 3	0.1 l/s
531	Average value 5 days ago Pump 4	0.1 l/s
532	Average value 5 days ago Pump 5	0.1 l/s
533	Average value 5 days ago Pump 6	0.1 l/s
534	Average value 5 days ago Pump 7	0.1 l/s
535	Average value 5 days ago Pump 8	0.1 l/s
536	Average value 5 days ago Pump 9	0.1 l/s
537	Average value 5 days ago Pump 10	0.1 l/s
538	Average value 5 days ago Pump 11	0.1 l/s
539	Average value 5 days ago Pump 12	0.1 l/s
540	Average value 5 days ago Pump 13	0.1 l/s
541	Average value 5 days ago Pump 14	0.1 l/s
542	Average value 5 days ago Pump 15	0.1 l/s
543	Average value 5 days ago Pump 16	0.1 l/s
544	Average value 6 days ago Pump 1	0.1 l/s
545	Average value 6 days ago Pump 2	0.1 l/s
546	Average value 6 days ago Pump 3	0.1 l/s
547	Average value 6 days ago Pump 4	0.1 l/s
548	Average value 6 days ago Pump 5	0.1 l/s
549	Average value 6 days ago Pump 6	0.1 l/s

Register no	Description	Scale factor / unit / note
550	Average value 6 days ago Pump 7	0.1 l/s
551	Average value 6 days ago Pump 8	0.1 l/s
552	Average value 6 days ago Pump 9	0.1 l/s
553	Average value 6 days ago Pump 10	0.1 l/s
554	Average value 6 days ago Pump 11	0.1 l/s
555	Average value 6 days ago Pump 12	0.1 l/s
556	Average value 6 days ago Pump 13	0.1 l/s
557	Average value 6 days ago Pump 14	0.1 l/s
558	Average value 6 days ago Pump 15	0.1 l/s
559	Average value 6 days ago Pump 16	0.1 l/s
560	Average value 7 days ago Pump 1	0.1 l/s
561	Average value 7 days ago Pump 2	0.1 l/s
562	Average value 7 days ago Pump 3	0.1 l/s
563	Average value 7 days ago Pump 4	0.1 l/s
564	Average value 7 days ago Pump 5	0.1 l/s
565	Average value 7 days ago Pump 6	0.1 l/s
566	Average value 7 days ago Pump 7	0.1 l/s
567	Average value 7 days ago Pump 8	0.1 l/s
568	Average value 7 days ago Pump 9	0.1 l/s
569	Average value 7 days ago Pump 10	0.1 l/s
570	Average value 7 days ago Pump 11	0.1 l/s
571	Average value 7 days ago Pump 12	0.1 l/s
572	Average value 7 days ago Pump 13	0.1 l/s
573	Average value 7 days ago Pump 14	0.1 l/s
574	Average value 7 days ago Pump 15	0.1 l/s
575	Average value 7 days ago Pump 16	0.1 l/s

3.1.23 Station identification

584	Station number	Station identification for monitoring systems
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3.1.24 Accumulated running times

592 + 593	Total Pump 1	sec
594 + 595	Total Pump 2	sec
596 + 597	Total Pump 3	sec
598 + 599	Total Pump 4	sec
600 + 601	Total Pump 5	sec
602 + 603	Total Pump 6	sec
604 + 605	Total Pump 7	sec
606 + 607	Total Pump 8	sec
608 + 609	Total Pump 9	sec
610 + 611	Total Pump 10	sec
612 + 613	Total Pump 11	sec
614 + 615	Total Pump 12	sec
616 + 617	Total Pump 13	sec
618 + 619	Total Pump 14	sec
620 + 621	Total Pump 15	sec
622 + 623	Total Pump 16	sec
624 + 625	Today Pump 1	sec
626 + 627	Today Pump 2	sec
628 + 629	Today Pump 3	sec
630 + 631	Today Pump 4	sec
632 + 633	Today Pump 5	sec
634 + 635	Today Pump 6	sec
636 + 637	Today Pump 7	sec
638 + 639	Today Pump 8	sec
640 + 641	Today Pump 9	sec
642 + 643	Today Pump 10	sec
644 + 645	Today Pump 11	sec
646 + 647	Today Pump 12	sec

Register no	Description	Scale factor / unit / note
648 + 649	Today Pump 13	sec
650 + 651	Today Pump 14	sec
652 + 653	Today Pump 15	sec
654 + 655	Today Pump 16	sec
656 + 657	Yesterday Pump 1	sec
658 + 659	Yesterday Pump 2	sec
660 + 661	Yesterday Pump 3	sec
662 + 663	Yesterday Pump 4	sec
664 + 665	Yesterday Pump 5	sec
666 + 667	Yesterday Pump 6	sec
668 + 669	Yesterday Pump 7	sec
670 + 671	Yesterday Pump 8	sec
672 + 673	Yesterday Pump 9	sec
674 + 675	Yesterday Pump 10	sec
676 + 677	Yesterday Pump 11	sec
678 + 679	Yesterday Pump 12	sec
680 + 681	Yesterday Pump 13	sec
682 + 683	Yesterday Pump 14	sec
684 + 685	Yesterday Pump 15	sec
686 + 687	Yesterday Pump 16	sec
688 + 689	2 days ago Pump 1	sec
690 + 691	2 days ago Pump 2	sec
692 + 693	2 days ago Pump 3	sec
694 + 695	2 days ago Pump 4	sec
696 + 697	2 days ago Pump 5	sec
698 + 699	2 days ago Pump 6	sec
700 + 701	2 days ago Pump 7	sec
702 + 703	2 days ago Pump 8	sec
704 + 705	2 days ago Pump 9	sec
706 + 707	2 days ago Pump 10	sec
708 + 709	2 days ago Pump 11	sec
710 + 711	2 days ago Pump 12	sec
712 + 713	2 days ago Pump 13	sec
714 + 715	2 days ago Pump 14	sec
716 + 717	2 days ago Pump 15	sec
718 + 719	2 days ago Pump 16	sec
720 + 721	3 days ago Pump 1	sec
722 + 723	3 days ago Pump 2	sec
724 + 725	3 days ago Pump 3	sec
726 + 727	3 days ago Pump 4	sec
728 + 729	3 days ago Pump 5	sec
730 + 731	3 days ago Pump 6	sec
732 + 733	3 days ago Pump 7	sec
734 + 735	3 days ago Pump 8	sec
736 + 737	3 days ago Pump 9	sec
738 + 739	3 days ago Pump 10	sec
740 + 741	3 days ago Pump 11	sec
742 + 743	3 days ago Pump 12	sec
744 + 745	3 days ago Pump 13	sec
746 + 747	3 days ago Pump 14	sec
748 + 749	3 days ago Pump 15	sec
750 + 751	3 days ago Pump 16	sec
752 + 753	4 days ago Pump 1	sec
754 + 755	4 days ago Pump 2	sec
756 + 757	4 days ago Pump 3	sec
758 + 759	4 days ago Pump 4	sec
760 + 761	4 days ago Pump 5	sec
762 + 763	4 days ago Pump 6	sec
764 + 765	4 days ago Pump 7	sec
766 + 767	4 days ago Pump 8	sec
768 + 769	4 days ago Pump 9	sec
770 + 771	4 days ago Pump 10	sec

Register no	Description	Scale factor / unit / note
772 + 773	4 days ago Pump 11	sec
774 + 775	4 days ago Pump 12	sec
776 + 777	4 days ago Pump 13	sec
778 + 779	4 days ago Pump 14	sec
780 + 781	4 days ago Pump 15	sec
782 + 783	4 days ago Pump 16	sec
784 + 785	5 days ago Pump 1	sec
786 + 787	5 days ago Pump 2	sec
788 + 789	5 days ago Pump 3	sec
790 + 791	5 days ago Pump 4	sec
792 + 793	5 days ago Pump 5	sec
794 + 795	5 days ago Pump 6	sec
796 + 797	5 days ago Pump 7	sec
798 + 799	5 days ago Pump 8	sec
800 + 801	5 days ago Pump 9	sec
802 + 803	5 days ago Pump 10	sec
804 + 805	5 days ago Pump 11	sec
806 + 807	5 days ago Pump 12	sec
808 + 809	5 days ago Pump 13	sec
810 + 811	5 days ago Pump 14	sec
812 + 813	5 days ago Pump 15	sec
814 + 815	5 days ago Pump 16	sec
816 + 817	6 days ago Pump 1	sec
818 + 819	6 days ago Pump 2	sec
820 + 821	6 days ago Pump 3	sec
822 + 823	6 days ago Pump 4	sec
824 + 825	6 days ago Pump 5	sec
826 + 827	6 days ago Pump 6	sec
828 + 829	6 days ago Pump 7	sec
830 + 831	6 days ago Pump 8	sec
832 + 833	6 days ago Pump 9	sec
834 + 835	6 days ago Pump 10	sec
836 + 837	6 days ago Pump 11	sec
838 + 839	6 days ago Pump 12	sec
840 + 841	6 days ago Pump 13	sec
842 + 843	6 days ago Pump 14	sec
844 + 845	6 days ago Pump 15	sec
846 + 847	6 days ago Pump 16	sec
848 + 849	7 days ago Pump 1	sec
850 + 851	7 days ago Pump 2	sec
852 + 853	7 days ago Pump 3	sec
854 + 855	7 days ago Pump 4	sec
856 + 857	7 days ago Pump 5	sec
858 + 859	7 days ago Pump 6	sec
860 + 861	7 days ago Pump 7	sec
862 + 863	7 days ago Pump 8	sec
864 + 865	7 days ago Pump 9	sec
866 + 867	7 days ago Pump 10	sec
868 + 869	7 days ago Pump 11	sec
870 + 871	7 days ago Pump 12	sec
872 + 873	7 days ago Pump 13	sec
874 + 875	7 days ago Pump 14	sec
876 + 877	7 days ago Pump 15	sec
878 + 879	7 days ago Pump 16	sec

3.1.25 accumulated start count

880 + 881	Total Pump 1	times
882 + 883	Total Pump 2	times
884 + 885	Total Pump 3	times
886 + 887	Total Pump 4	times

Register no	Description	Scale factor / unit / note
888 + 889	Total Pump 5	times
890 + 891	Total Pump 6	times
892 + 893	Total Pump 7	times
894 + 895	Total Pump 8	times
896 + 897	Total Pump 9	times
898 + 899	Total Pump 10	times
900 + 901	Total Pump 11	times
902 + 903	Total Pump 12	times
904 + 905	Total Pump 13	times
906 + 907	Total Pump 14	times
908 + 909	Total Pump 15	times
910 + 911	Total Pump 16	times
912 + 913	Today Pump 1	times
914 + 915	Today Pump 2	times
916 + 917	Today Pump 3	times
918 + 919	Today Pump 4	times
920 + 921	Today Pump 5	times
922 + 923	Today Pump 6	times
924 + 925	Today Pump 7	times
926 + 927	Today Pump 8	times
928 + 929	Today Pump 9	times
930 + 931	Today Pump 10	times
932 + 933	Today Pump 11	times
934 + 935	Today Pump 12	times
936 + 937	Today Pump 13	times
938 + 939	Today Pump 14	times
940 + 941	Today Pump 15	times
942 + 943	Today Pump 16	times
944 + 945	Yesterday Pump 1	times
946 + 947	Yesterday Pump 2	times
948 + 949	Yesterday Pump 3	times
950 + 951	Yesterday Pump 4	times
952 + 953	Yesterday Pump 5	times
954 + 955	Yesterday Pump 6	times
956 + 957	Yesterday Pump 7	times
958 + 959	Yesterday Pump 8	times
960 + 961	Yesterday Pump 9	times
962 + 963	Yesterday Pump 10	times
964 + 965	Yesterday Pump 11	times
966 + 967	Yesterday Pump 12	times
968 + 969	Yesterday Pump 13	times
970 + 971	Yesterday Pump 14	times
972 + 973	Yesterday Pump 15	times
974 + 975	Yesterday Pump 16	times
976 + 977	2 days ago Pump 1	times
978 + 979	2 days ago Pump 2	times
980 + 981	2 days ago Pump 3	times
982 + 983	2 days ago Pump 4	times
984 + 985	2 days ago Pump 5	times
986 + 987	2 days ago Pump 6	times
988 + 989	2 days ago Pump 7	times
990 + 991	2 days ago Pump 8	times
992 + 993	2 days ago Pump 9	times
994 + 995	2 days ago Pump 10	times
996 + 997	2 days ago Pump 11	times
998 + 999	2 days ago Pump 12	times
1000 + 1001	2 days ago Pump 13	times
1002 + 1003	2 days ago Pump 14	times
1004 + 1005	2 days ago Pump 15	times
1006 + 1007	2 days ago Pump 16	times
1008 + 1009	3 days ago Pump 1	times
1010 + 1011	3 days ago Pump 2	times

Register no	Description	Scale factor / unit / note
1012 + 1013	3 days ago Pump 3	times
1014 + 1015	3 days ago Pump 4	times
1016 + 1017	3 days ago Pump 5	times
1018 + 1019	3 days ago Pump 6	times
1020 + 1021	3 days ago Pump 7	times
1022 + 1023	3 days ago Pump 8	times
1024 + 1025	3 days ago Pump 9	times
1026 + 1027	3 days ago Pump 10	times
1028 + 1029	3 days ago Pump 11	times
1030 + 1031	3 days ago Pump 12	times
1032 + 1033	3 days ago Pump 13	times
1034 + 1035	3 days ago Pump 14	times
1036 + 1037	3 days ago Pump 15	times
1038 + 1039	3 days ago Pump 16	times
1040 + 1041	4 days ago Pump 1	times
1042 + 1043	4 days ago Pump 2	times
1044 + 1045	4 days ago Pump 3	times
1046 + 1047	4 days ago Pump 4	times
1048 + 1049	4 days ago Pump 5	times
1050 + 1051	4 days ago Pump 6	times
1052 + 1053	4 days ago Pump 7	times
1054 + 1055	4 days ago Pump 8	times
1056 + 1057	4 days ago Pump 9	times
1058 + 1059	4 days ago Pump 10	times
1060 + 1061	4 days ago Pump 11	times
1062 + 1063	4 days ago Pump 12	times
1064 + 1065	4 days ago Pump 13	times
1066 + 1067	4 days ago Pump 14	times
1068 + 1069	4 days ago Pump 15	times
1070 + 1071	4 days ago Pump 16	times
1072 + 1073	5 days ago Pump 1	times
1074 + 1075	5 days ago Pump 2	times
1076 + 1077	5 days ago Pump 3	times
1078 + 1079	5 days ago Pump 4	times
1080 + 1081	5 days ago Pump 5	times
1082 + 1083	5 days ago Pump 6	times
1084 + 1085	5 days ago Pump 7	times
1086 + 1087	5 days ago Pump 8	times
1088 + 1089	5 days ago Pump 9	times
1090 + 1091	5 days ago Pump 10	times
1092 + 1093	5 days ago Pump 11	times
1094 + 1095	5 days ago Pump 12	times
1096 + 1097	5 days ago Pump 13	times
1098 + 1099	5 days ago Pump 14	times
1100 + 1101	5 days ago Pump 15	times
1102 + 1103	5 days ago Pump 16	times
1104 + 1105	6 days ago Pump 1	times
1106 + 1107	6 days ago Pump 2	times
1108 + 1109	6 days ago Pump 3	times
1110 + 1111	6 days ago Pump 4	times
1112 + 1113	6 days ago Pump 5	times
1114 + 1115	6 days ago Pump 6	times
1116 + 1117	6 days ago Pump 7	times
1118 + 1119	6 days ago Pump 8	times
1120 + 1121	6 days ago Pump 9	times
1122 + 1123	6 days ago Pump 10	times
1124 + 1125	6 days ago Pump 11	times
1126 + 1127	6 days ago Pump 12	times
1128 + 1129	6 days ago Pump 13	times
1130 + 1131	6 days ago Pump 14	times
1132 + 1133	6 days ago Pump 15	times
1134 + 1135	6 days ago Pump 16	times

Register no	Description	Scale factor / unit / note
1136 + 1137	7 days ago Pump 1	times
1138 + 1139	7 days ago Pump 2	times
1140 + 1141	7 days ago Pump 3	times
1142 + 1143	7 days ago Pump 4	times
1144 + 1145	7 days ago Pump 5	times
1146 + 1147	7 days ago Pump 6	times
1148 + 1149	7 days ago Pump 7	times
1150 + 1151	7 days ago Pump 8	times
1152 + 1153	7 days ago Pump 9	times
1154 + 1155	7 days ago Pump 10	times
1156 + 1157	7 days ago Pump 11	times
1158 + 1159	7 days ago Pump 12	times
1160 + 1161	7 days ago Pump 13	times
1162 + 1163	7 days ago Pump 14	times
1164 + 1165	7 days ago Pump 15	times
1166 + 1167	7 days ago Pump 16	times

3.1.26 Running time 2 or more pumps

1168 + 1169	Total Pump pit 1	sec
1170 + 1171	Total Pump pit 2	sec
1172 + 1173	Total Pump pit 3	sec
1174 + 1175	Total Pump pit 4	sec
1176 + 1177	Today Pump pit 1	sec
1178 + 1179	Today Pump pit 2	sec
1180 + 1181	Today Pump pit 3	sec
1182 + 1183	Today Pump pit 4	sec
1184 + 1185	Yesterday Pump pit 1	sec
1186 + 1187	Yesterday Pump pit 2	sec
1188 + 1189	Yesterday Pump pit 3	sec
1190 + 1191	Yesterday Pump pit 4	sec
1192 + 1193	2 days ago Pump pit 1	sec
1194 + 1195	2 days ago Pump pit 2	sec
1196 + 1197	2 days ago Pump pit 3	sec
1198 + 1199	2 days ago Pump pit 4	sec
1200 + 1201	3 days ago Pump pit 1	sec
1202 + 1203	3 days ago Pump pit 2	sec
1204 + 1205	3 days ago Pump pit 3	sec
1206 + 1207	3 days ago Pump pit 4	sec
1208 + 1209	4 days ago Pump pit 1	sec
1210 + 1211	4 days ago Pump pit 2	sec
1212 + 1213	4 days ago Pump pit 3	sec
1214 + 1215	4 days ago Pump pit 4	sec
1216 + 1217	5 days ago Pump pit 1	sec
1218 + 1219	5 days ago Pump pit 2	sec
1220 + 1221	5 days ago Pump pit 3	sec
1222 + 1223	5 days ago Pump pit 4	sec
1224 + 1225	6 days ago Pump pit 1	sec
1226 + 1227	6 days ago Pump pit 2	sec
1228 + 1229	6 days ago Pump pit 3	sec
1230 + 1231	6 days ago Pump pit 4	sec
1232 + 1233	7 days ago Pump pit 1	sec
1234 + 1235	7 days ago Pump pit 2	sec
1236 + 1237	7 days ago Pump pit 3	sec
1238 + 1239	7 days ago Pump pit 4	sec

3.1.27 Start count 2 or more pumps

1240 + 1241	Total Pump pit 1	times
1242 + 1243	Total Pump pit 2	times
1244 + 1245	Total Pump pit 3	times

Register no	Description	Scale factor / unit / note
1246 + 1247	Total Pump pit 4	times
1248 + 1249	Today Pump pit 1	times
1250 + 1251	Today Pump pit 2	times
1252 + 1253	Today Pump pit 3	times
1254 + 1255	Today Pump pit 4	times
1256 + 1257	Yesterday Pump pit 1	times
1258 + 1259	Yesterday Pump pit 2	times
1260 + 1261	Yesterday Pump pit 3	times
1262 + 1263	Yesterday Pump pit 4	times
1264 + 1265	2 days ago Pump pit 1	times
1266 + 1267	2 days ago Pump pit 2	times
1268 + 1269	2 days ago Pump pit 3	times
1270 + 1271	2 days ago Pump pit 4	times
1272 + 1273	3 days ago Pump pit 1	times
1274 + 1275	3 days ago Pump pit 2	times
1276 + 1277	3 days ago Pump pit 3	times
1278 + 1279	3 days ago Pump pit 4	times
1280 + 1281	4 days ago Pump pit 1	times
1282 + 1283	4 days ago Pump pit 2	times
1284 + 1285	4 days ago Pump pit 3	times
1286 + 1287	4 days ago Pump pit 4	times
1288 + 1289	5 days ago Pump pit 1	times
1290 + 1291	5 days ago Pump pit 2	times
1292 + 1293	5 days ago Pump pit 3	times
1294 + 1295	5 days ago Pump pit 4	times
1296 + 1297	6 days ago Pump pit 1	times
1298 + 1299	6 days ago Pump pit 2	times
1300 + 1301	6 days ago Pump pit 3	times
1302 + 1303	6 days ago Pump pit 4	times
1304 + 1305	7 days ago Pump pit 1	times
1306 + 1307	7 days ago Pump pit 2	times
1308 + 1309	7 days ago Pump pit 3	times
1310 + 1311	7 days ago Pump pit 4	times

3.1.28 Accumulated pumped volume

1312 + 1313	Total Pump pit 1	0.1 m3
1314 + 1315	Total Pump pit 2	0.1 m3
1316 + 1317	Total Pump pit 3	0.1 m3
1318 + 1319	Total Pump pit 4	0.1 m3
1320 + 1321	Today Pump pit 1	0.1 m3
1322 + 1323	Today Pump pit 2	0.1 m3
1324 + 1325	Today Pump pit 3	0.1 m3
1326 + 1327	Today Pump pit 4	0.1 m3
1328 + 1329	Yesterday Pump pit 1	0.1 m3
1330 + 1331	Yesterday Pump pit 2	0.1 m3
1332 + 1333	Yesterday Pump pit 3	0.1 m3
1334 + 1335	Yesterday Pump pit 4	0.1 m3
1336 + 1337	2 days ago Pump pit 1	0.1 m3
1338 + 1339	2 days ago Pump pit 2	0.1 m3
1340 + 1341	2 days ago Pump pit 3	0.1 m3
1342 + 1343	2 days ago Pump pit 4	0.1 m3
1344 + 1345	3 days ago Pump pit 1	0.1 m3
1346 + 1347	3 days ago Pump pit 2	0.1 m3
1348 + 1349	3 days ago Pump pit 3	0.1 m3
1350 + 1351	3 days ago Pump pit 4	0.1 m3
1352 + 1353	4 days ago Pump pit 1	0.1 m3
1354 + 1355	4 days ago Pump pit 2	0.1 m3
1356 + 1357	4 days ago Pump pit 3	0.1 m3
1358 + 1359	4 days ago Pump pit 4	0.1 m3
1360 + 1361	5 days ago Pump pit 1	0.1 m3

Register no	Description	Scale factor / unit / note
1362 + 1363	5 days ago Pump pit 2	0.1 m3
1364 + 1365	5 days ago Pump pit 3	0.1 m3
1366 + 1367	5 days ago Pump pit 4	0.1 m3
1368 + 1369	6 days ago Pump pit 1	0.1 m3
1370 + 1371	6 days ago Pump pit 2	0.1 m3
1372 + 1373	6 days ago Pump pit 3	0.1 m3
1374 + 1375	6 days ago Pump pit 4	0.1 m3
1376 + 1377	7 days ago Pump pit 1	0.1 m3
1378 + 1379	7 days ago Pump pit 2	0.1 m3
1380 + 1381	7 days ago Pump pit 3	0.1 m3
1382 + 1383	7 days ago Pump pit 4	0.1 m3

3.1.29 Accumulated overflow volume

1384 + 1385	Total Pump pit 1	0.1 m3
1386 + 1387	Total Pump pit 2	0.1 m3
1388 + 1389	Total Pump pit 3	0.1 m3
1390 + 1391	Total Pump pit 4	0.1 m3
1400 + 1401	Today Pump pit 1	0.1 m3
1402 + 1403	Today Pump pit 2	0.1 m3
1404 + 1405	Today Pump pit 3	0.1 m3
1406 + 1407	Today Pump pit 4	0.1 m3
1416 + 1417	Yesterday Pump pit 1	0.1 m3
1418 + 1419	Yesterday Pump pit 2	0.1 m3
1420 + 1421	Yesterday Pump pit 3	0.1 m3
1422 + 1423	Yesterday Pump pit 4	0.1 m3
1432 + 1433	2 days ago Pump pit 1	0.1 m3
1434 + 1435	2 days ago Pump pit 2	0.1 m3
1436 + 1437	2 days ago Pump pit 3	0.1 m3
1438 + 1439	2 days ago Pump pit 4	0.1 m3
1448 + 1449	3 days ago Pump pit 1	0.1 m3
1450 + 1451	3 days ago Pump pit 2	0.1 m3
1452 + 1453	3 days ago Pump pit 3	0.1 m3
1454 + 1455	3 days ago Pump pit 4	0.1 m3
1464 + 1465	4 days ago Pump pit 1	0.1 m3
1466 + 1467	4 days ago Pump pit 2	0.1 m3
1468 + 1469	4 days ago Pump pit 3	0.1 m3
1470 + 1471	4 days ago Pump pit 4	0.1 m3
1480 + 1481	5 days ago Pump pit 1	0.1 m3
1482 + 1483	5 days ago Pump pit 2	0.1 m3
1484 + 1485	5 days ago Pump pit 3	0.1 m3
1486 + 1487	5 days ago Pump pit 4	0.1 m3
1496 + 1497	6 days ago Pump pit 1	0.1 m3
1498 + 1499	6 days ago Pump pit 2	0.1 m3
1500 + 1501	6 days ago Pump pit 3	0.1 m3
1502 + 1503	6 days ago Pump pit 4	0.1 m3
1512 + 1513	7 days ago Pump pit 1	0.1 m3
1514 + 1515	7 days ago Pump pit 2	0.1 m3
1516 + 1517	7 days ago Pump pit 3	0.1 m3
1518 + 1519	7 days ago Pump pit 4	0.1 m3

3.1.30 Accumulated volume

1392 + 1393	Total Flow meter 1	0.1 m3
1394 + 1395	Total Flow meter 2	0.1 m3
1396 + 1397	Total Flow meter 3	0.1 m3
1398 + 1399	Total Flow meter 4	0.1 m3
1408 + 1409	Today Flow meter 1	0.1 m3
1410 + 1411	Today Flow meter 2	0.1 m3
1412 + 1413	Today Flow meter 3	0.1 m3
1414 + 1415	Today Flow meter 4	0.1 m3

Register no	Description	Scale factor / unit / note
1424 + 1425	Yesterday Flow meter 1	0.1 m3
1426 + 1427	Yesterday Flow meter 2	0.1 m3
1428 + 1429	Yesterday Flow meter 3	0.1 m3
1430 + 1431	Yesterday Flow meter 4	0.1 m3
1440 + 1441	2 days ago Flow meter 1	0.1 m3
1442 + 1443	2 days ago Flow meter 2	0.1 m3
1444 + 1445	2 days ago Flow meter 3	0.1 m3
1446 + 1447	2 days ago Flow meter 4	0.1 m3
1456 + 1457	3 days ago Flow meter 1	0.1 m3
1458 + 1459	3 days ago Flow meter 2	0.1 m3
1460 + 1461	3 days ago Flow meter 3	0.1 m3
1462 + 1463	3 days ago Flow meter 4	0.1 m3
1472 + 1473	4 days ago Flow meter 1	0.1 m3
1474 + 1475	4 days ago Flow meter 2	0.1 m3
1476 + 1477	4 days ago Flow meter 3	0.1 m3
1478 + 1479	4 days ago Flow meter 4	0.1 m3
1488 + 1489	5 days ago Flow meter 1	0.1 m3
1490 + 1491	5 days ago Flow meter 2	0.1 m3
1492 + 1493	5 days ago Flow meter 3	0.1 m3
1494 + 1495	5 days ago Flow meter 4	0.1 m3
1504 + 1505	6 days ago Flow meter 1	0.1 m3
1506 + 1507	6 days ago Flow meter 2	0.1 m3
1508 + 1509	6 days ago Flow meter 3	0.1 m3
1510 + 1511	6 days ago Flow meter 4	0.1 m3
1520 + 1521	7 days ago Flow meter 1	0.1 m3
1522 + 1523	7 days ago Flow meter 2	0.1 m3
1524 + 1525	7 days ago Flow meter 3	0.1 m3
1526 + 1527	7 days ago Flow meter 4	0.1 m3

3.1.31 Accumulated overflow time

1528 + 1529	Total Pump pit 1	sec
1530 + 1531	Total Pump pit 2	sec
1532 + 1533	Total Pump pit 3	sec
1534 + 1535	Total Pump pit 4	sec
1544 + 1545	Today Pump pit 1	sec
1546 + 1547	Today Pump pit 2	sec
1548 + 1549	Today Pump pit 3	sec
1550 + 1551	Today Pump pit 4	sec
1560 + 1561	Yesterday Pump pit 1	sec
1562 + 1563	Yesterday Pump pit 2	sec
1564 + 1565	Yesterday Pump pit 3	sec
1566 + 1567	Yesterday Pump pit 4	sec
1576 + 1577	2 days ago Pump pit 1	sec
1578 + 1579	2 days ago Pump pit 2	sec
1580 + 1581	2 days ago Pump pit 3	sec
1582 + 1583	2 days ago Pump pit 4	sec
1592 + 1593	3 days ago Pump pit 1	sec
1594 + 1595	3 days ago Pump pit 2	sec
1596 + 1597	3 days ago Pump pit 3	sec
1598 + 1599	3 days ago Pump pit 4	sec
1608 + 1609	4 days ago Pump pit 1	sec
1610 + 1611	4 days ago Pump pit 2	sec
1612 + 1613	4 days ago Pump pit 3	sec
1614 + 1615	4 days ago Pump pit 4	sec
1624 + 1625	5 days ago Pump pit 1	sec
1626 + 1627	5 days ago Pump pit 2	sec
1628 + 1629	5 days ago Pump pit 3	sec
1630 + 1631	5 days ago Pump pit 4	sec
1640 + 1641	6 days ago Pump pit 1	sec
1642 + 1643	6 days ago Pump pit 2	sec

Register no	Description	Scale factor / unit / note
1644 + 1645	6 days ago Pump pit 3	sec
1646 + 1647	6 days ago Pump pit 4	sec
1656 + 1657	7 days ago Pump pit 1	sec
1658 + 1659	7 days ago Pump pit 2	sec
1660 + 1661	7 days ago Pump pit 3	sec
1662 + 1663	7 days ago Pump pit 4	sec

3.1.32 Overflow counter

1672 + 1673	Total Pump pit 1	times
1674 + 1675	Total Pump pit 2	times
1676 + 1677	Total Pump pit 3	times
1678 + 1679	Total Pump pit 4	times
1688 + 1689	Today Pump pit 1	times
1690 + 1691	Today Pump pit 2	times
1692 + 1693	Today Pump pit 3	times
1694 + 1695	Today Pump pit 4	times
1704 + 1705	Yesterday Pump pit 1	times
1706 + 1707	Yesterday Pump pit 2	times
1708 + 1709	Yesterday Pump pit 3	times
1710 + 1711	Yesterday Pump pit 4	times
1720 + 1721	2 days ago Pump pit 1	times
1722 + 1723	2 days ago Pump pit 2	times
1724 + 1725	2 days ago Pump pit 3	times
1726 + 1727	2 days ago Pump pit 4	times
1736 + 1737	3 days ago Pump pit 1	times
1738 + 1739	3 days ago Pump pit 2	times
1740 + 1741	3 days ago Pump pit 3	times
1742 + 1743	3 days ago Pump pit 4	times
1752 + 1753	4 days ago Pump pit 1	times
1754 + 1755	4 days ago Pump pit 2	times
1756 + 1757	4 days ago Pump pit 3	times
1758 + 1759	4 days ago Pump pit 4	times
1768 + 1769	5 days ago Pump pit 1	times
1770 + 1771	5 days ago Pump pit 2	times
1772 + 1773	5 days ago Pump pit 3	times
1774 + 1775	5 days ago Pump pit 4	times
1784 + 1785	6 days ago Pump pit 1	times
1786 + 1787	6 days ago Pump pit 2	times
1788 + 1789	6 days ago Pump pit 3	times
1790 + 1791	6 days ago Pump pit 4	times
1800 + 1801	7 days ago Pump pit 1	times
1802 + 1803	7 days ago Pump pit 2	times
1804 + 1805	7 days ago Pump pit 3	times
1806 + 1807	7 days ago Pump pit 4	times

3.1.33 Accumulated pulse flow

1816 + 1817	Total Pulse channel 1	0.1 (m3,kWh,mm)
1818 + 1819	Total Pulse channel 2	0.1 (m3,kWh,mm)
1820 + 1821	Total Pulse channel 3	0.1 (m3,kWh,mm)
1822 + 1823	Total Pulse channel 4	0.1 (m3,kWh,mm)
1824 + 1825	Total Pulse channel 5	0.1 (m3,kWh,mm)
1826 + 1827	Total Pulse channel 6	0.1 (m3,kWh,mm)
1828 + 1829	Total Pulse channel 7	0.1 (m3,kWh,mm)
1830 + 1831	Total Pulse channel 8	0.1 (m3,kWh,mm)
1832 + 1833	Today Pulse channel 1	0.1 (m3,kWh,mm)
1834 + 1835	Today Pulse channel 2	0.1 (m3,kWh,mm)
1836 + 1837	Today Pulse channel 3	0.1 (m3,kWh,mm)
1838 + 1839	Today Pulse channel 4	0.1 (m3,kWh,mm)
1840 + 1841	Today Pulse channel 5	0.1 (m3,kWh,mm)

Register no	Description	Scale factor / unit / note
1842 + 1843	Today Pulse channel 6	0.1 (m3,kWh,mm)
1844 + 1845	Today Pulse channel 7	0.1 (m3,kWh,mm)
1846 + 1847	Today Pulse channel 8	0.1 (m3,kWh,mm)
1848 + 1849	Yesterday Pulse channel 1	0.1 (m3,kWh,mm)
1850 + 1851	Yesterday Pulse channel 2	0.1 (m3,kWh,mm)
1852 + 1853	Yesterday Pulse channel 3	0.1 (m3,kWh,mm)
1854 + 1855	Yesterday Pulse channel 4	0.1 (m3,kWh,mm)
1856 + 1857	Yesterday Pulse channel 5	0.1 (m3,kWh,mm)
1858 + 1859	Yesterday Pulse channel 6	0.1 (m3,kWh,mm)
1860 + 1861	Yesterday Pulse channel 7	0.1 (m3,kWh,mm)
1862 + 1863	Yesterday Pulse channel 8	0.1 (m3,kWh,mm)
1864 + 1865	2 days ago Pulse channel 1	0.1 (m3,kWh,mm)
1866 + 1867	2 days ago Pulse channel 2	0.1 (m3,kWh,mm)
1868 + 1869	2 days ago Pulse channel 3	0.1 (m3,kWh,mm)
1870 + 1871	2 days ago Pulse channel 4	0.1 (m3,kWh,mm)
1872 + 1873	2 days ago Pulse channel 5	0.1 (m3,kWh,mm)
1874 + 1875	2 days ago Pulse channel 6	0.1 (m3,kWh,mm)
1876 + 1877	2 days ago Pulse channel 7	0.1 (m3,kWh,mm)
1878 + 1879	2 days ago Pulse channel 8	0.1 (m3,kWh,mm)
1880 + 1881	3 days ago Pulse channel 1	0.1 (m3,kWh,mm)
1882 + 1883	3 days ago Pulse channel 2	0.1 (m3,kWh,mm)
1884 + 1885	3 days ago Pulse channel 3	0.1 (m3,kWh,mm)
1886 + 1887	3 days ago Pulse channel 4	0.1 (m3,kWh,mm)
1888 + 1889	3 days ago Pulse channel 5	0.1 (m3,kWh,mm)
1890 + 1891	3 days ago Pulse channel 6	0.1 (m3,kWh,mm)
1892 + 1893	3 days ago Pulse channel 7	0.1 (m3,kWh,mm)
1894 + 1895	3 days ago Pulse channel 8	0.1 (m3,kWh,mm)
1896 + 1897	4 days ago Pulse channel 1	0.1 (m3,kWh,mm)
1898 + 1899	4 days ago Pulse channel 2	0.1 (m3,kWh,mm)
1900 + 1901	4 days ago Pulse channel 3	0.1 (m3,kWh,mm)
1902 + 1903	4 days ago Pulse channel 4	0.1 (m3,kWh,mm)
1904 + 1905	4 days ago Pulse channel 5	0.1 (m3,kWh,mm)
1906 + 1907	4 days ago Pulse channel 6	0.1 (m3,kWh,mm)
1908 + 1909	4 days ago Pulse channel 7	0.1 (m3,kWh,mm)
1910 + 1911	4 days ago Pulse channel 8	0.1 (m3,kWh,mm)
1912 + 1913	5 days ago Pulse channel 1	0.1 (m3,kWh,mm)
1914 + 1915	5 days ago Pulse channel 2	0.1 (m3,kWh,mm)
1916 + 1917	5 days ago Pulse channel 3	0.1 (m3,kWh,mm)
1918 + 1919	5 days ago Pulse channel 4	0.1 (m3,kWh,mm)
1920 + 1921	5 days ago Pulse channel 5	0.1 (m3,kWh,mm)
1922 + 1923	5 days ago Pulse channel 6	0.1 (m3,kWh,mm)
1924 + 1925	5 days ago Pulse channel 7	0.1 (m3,kWh,mm)
1926 + 1927	5 days ago Pulse channel 8	0.1 (m3,kWh,mm)
1928 + 1929	6 days ago Pulse channel 1	0.1 (m3,kWh,mm)
1930 + 1931	6 days ago Pulse channel 2	0.1 (m3,kWh,mm)
1932 + 1933	6 days ago Pulse channel 3	0.1 (m3,kWh,mm)
1934 + 1935	6 days ago Pulse channel 4	0.1 (m3,kWh,mm)
1936 + 1937	6 days ago Pulse channel 5	0.1 (m3,kWh,mm)
1938 + 1939	6 days ago Pulse channel 6	0.1 (m3,kWh,mm)
1940 + 1941	6 days ago Pulse channel 7	0.1 (m3,kWh,mm)
1942 + 1943	6 days ago Pulse channel 8	0.1 (m3,kWh,mm)
1944 + 1945	7 days ago Pulse channel 1	0.1 (m3,kWh,mm)
1946 + 1947	7 days ago Pulse channel 2	0.1 (m3,kWh,mm)
1948 + 1949	7 days ago Pulse channel 3	0.1 (m3,kWh,mm)
1950 + 1951	7 days ago Pulse channel 4	0.1 (m3,kWh,mm)
1952 + 1953	7 days ago Pulse channel 5	0.1 (m3,kWh,mm)
1954 + 1955	7 days ago Pulse channel 6	0.1 (m3,kWh,mm)
1956 + 1957	7 days ago Pulse channel 7	0.1 (m3,kWh,mm)
1958 + 1959	7 days ago Pulse channel 8	0.1 (m3,kWh,mm)

Register no	Description	Scale factor / unit / note
3.1.34	Free data registers	
1960	Register 1960 to 1999	
1999	are free 16 bit registers	
2000 + 2001	Register 2000 to 2047	
2046 + 2047	are free 32 bit registers	(Can also be used as 16 bit registers)
3.1.35	Cross reference list for IO-bits	
2048	IO number for IO-bit 0	
2049	IO number for IO-bit 1	
2050	IO number for IO-bit 2	
2051	IO number for IO-bit 3	
2052	IO number for IO-bit 4	
2053	IO number for IO-bit 5	
2054	IO number for IO-bit 6	
2055	IO number for IO-bit 7	
2056	IO number for IO-bit 8	
2057	IO number for IO-bit 9	
2058	IO number for IO-bit 10	
2059	IO number for IO-bit 11	
2060	IO number for IO-bit 12	
2061	IO number for IO-bit 13	
2062	IO number for IO-bit 14	
2063	IO number for IO-bit 15	
2064	IO number for IO-bit 16	
2065	IO number for IO-bit 17	
2066	IO number for IO-bit 18	
2067	IO number for IO-bit 19	
2068	IO number for IO-bit 20	
2069	IO number for IO-bit 21	
2070	IO number for IO-bit 22	
2071	IO number for IO-bit 23	
2072	IO number for IO-bit 24	
2073	IO number for IO-bit 25	
2074	IO number for IO-bit 26	
2075	IO number for IO-bit 27	
2076	IO number for IO-bit 28	
2077	IO number for IO-bit 29	
2078	IO number for IO-bit 30	
2079	IO number for IO-bit 31	
2080	IO number for IO-bit 32	
2081	IO number for IO-bit 33	
2082	IO number for IO-bit 34	
2083	IO number for IO-bit 35	
2084	IO number for IO-bit 36	
2085	IO number for IO-bit 37	
2086	IO number for IO-bit 38	
2087	IO number for IO-bit 39	
2088	IO number for IO-bit 40	
2089	IO number for IO-bit 41	
2090	IO number for IO-bit 42	
2091	IO number for IO-bit 43	
2092	IO number for IO-bit 44	
2093	IO number for IO-bit 45	
2094	IO number for IO-bit 46	
2095	IO number for IO-bit 47	
2096	IO number for IO-bit 48	
2097	IO number for IO-bit 49	
2098	IO number for IO-bit 50	
2099	IO number for IO-bit 51	
2100	IO number for IO-bit 52	

Register no	Description	Scale factor / unit / note
2101	IO number for IO-bit 53	
2102	IO number for IO-bit 54	
2103	IO number for IO-bit 55	
2104	IO number for IO-bit 56	
2105	IO number for IO-bit 57	
2106	IO number for IO-bit 58	
2107	IO number for IO-bit 59	
2108	IO number for IO-bit 60	
2109	IO number for IO-bit 61	
2110	IO number for IO-bit 62	
2111	IO number for IO-bit 63	
2112	IO number for IO-bit 64	
2113	IO number for IO-bit 65	
2114	IO number for IO-bit 66	
2115	IO number for IO-bit 67	
2116	IO number for IO-bit 68	
2117	IO number for IO-bit 69	
2118	IO number for IO-bit 70	
2119	IO number for IO-bit 71	
2120	IO number for IO-bit 72	
2121	IO number for IO-bit 73	
2122	IO number for IO-bit 74	
2123	IO number for IO-bit 75	
2124	IO number for IO-bit 76	
2125	IO number for IO-bit 77	
2126	IO number for IO-bit 78	
2127	IO number for IO-bit 79	
2128	IO number for IO-bit 80	
2129	IO number for IO-bit 81	
2130	IO number for IO-bit 82	
2131	IO number for IO-bit 83	
2132	IO number for IO-bit 84	
2133	IO number for IO-bit 85	
2134	IO number for IO-bit 86	
2135	IO number for IO-bit 87	
2136	IO number for IO-bit 88	
2137	IO number for IO-bit 89	
2138	IO number for IO-bit 90	
2139	IO number for IO-bit 91	
2140	IO number for IO-bit 92	
2141	IO number for IO-bit 93	
2142	IO number for IO-bit 94	
2143	IO number for IO-bit 95	
2144	IO number for IO-bit 96	
2145	IO number for IO-bit 97	
2146	IO number for IO-bit 98	
2147	IO number for IO-bit 99	
2148	IO number for IO-bit 100	
2149	IO number for IO-bit 101	
2150	IO number for IO-bit 102	
2151	IO number for IO-bit 103	
2152	IO number for IO-bit 104	
2153	IO number for IO-bit 105	
2154	IO number for IO-bit 106	
2155	IO number for IO-bit 107	
2156	IO number for IO-bit 108	
2157	IO number for IO-bit 109	
2158	IO number for IO-bit 110	
2159	IO number for IO-bit 111	
2160	IO number for IO-bit 112	
2161	IO number for IO-bit 113	
2162	IO number for IO-bit 114	

Register no	Description	Scale factor / unit / note
2163	IO number for IO-bit 115	
2164	IO number for IO-bit 116	
2165	IO number for IO-bit 117	
2166	IO number for IO-bit 118	
2167	IO number for IO-bit 119	
2168	IO number for IO-bit 120	
2169	IO number for IO-bit 121	
2170	IO number for IO-bit 122	
2171	IO number for IO-bit 123	
2172	IO number for IO-bit 124	
2173	IO number for IO-bit 125	
2174	IO number for IO-bit 126	
2175	IO number for IO-bit 127	
2176	IO number for IO-bit 128	
2177	IO number for IO-bit 129	
2178	IO number for IO-bit 130	
2179	IO number for IO-bit 131	
2180	IO number for IO-bit 132	
2181	IO number for IO-bit 133	
2182	IO number for IO-bit 134	
2183	IO number for IO-bit 135	
2184	IO number for IO-bit 136	
2185	IO number for IO-bit 137	
2186	IO number for IO-bit 138	
2187	IO number for IO-bit 139	
2188	IO number for IO-bit 140	
2189	IO number for IO-bit 141	
2190	IO number for IO-bit 142	
2191	IO number for IO-bit 143	
2192	IO number for IO-bit 144	
2193	IO number for IO-bit 145	
2194	IO number for IO-bit 146	
2195	IO number for IO-bit 147	
2196	IO number for IO-bit 148	
2197	IO number for IO-bit 149	
2198	IO number for IO-bit 150	
2199	IO number for IO-bit 151	
2200	IO number for IO-bit 152	
2201	IO number for IO-bit 153	
2202	IO number for IO-bit 154	
2203	IO number for IO-bit 155	
2204	IO number for IO-bit 156	
2205	IO number for IO-bit 157	
2206	IO number for IO-bit 158	
2207	IO number for IO-bit 159	
2208	IO number for IO-bit 160	
2209	IO number for IO-bit 161	
2210	IO number for IO-bit 162	
2211	IO number for IO-bit 163	
2212	IO number for IO-bit 164	
2213	IO number for IO-bit 165	
2214	IO number for IO-bit 166	
2215	IO number for IO-bit 167	
2216	IO number for IO-bit 168	
2217	IO number for IO-bit 169	
2218	IO number for IO-bit 170	
2219	IO number for IO-bit 171	
2220	IO number for IO-bit 172	
2221	IO number for IO-bit 173	
2222	IO number for IO-bit 174	
2223	IO number for IO-bit 175	
2224	IO number for IO-bit 176	

Register no	Description	Scale factor / unit / note
2225	IO number for IO-bit 177	
2226	IO number for IO-bit 178	
2227	IO number for IO-bit 179	
2228	IO number for IO-bit 180	
2229	IO number for IO-bit 181	
2230	IO number for IO-bit 182	
2231	IO number for IO-bit 183	
2232	IO number for IO-bit 184	
2233	IO number for IO-bit 185	
2234	IO number for IO-bit 186	
2235	IO number for IO-bit 187	
2236	IO number for IO-bit 188	
2237	IO number for IO-bit 189	
2238	IO number for IO-bit 190	
2239	IO number for IO-bit 191	
2240	IO number for IO-bit 192	
2241	IO number for IO-bit 193	
2242	IO number for IO-bit 194	
2243	IO number for IO-bit 195	
2244	IO number for IO-bit 196	
2245	IO number for IO-bit 197	
2246	IO number for IO-bit 198	
2247	IO number for IO-bit 199	
2248	IO number for IO-bit 200	
2249	IO number for IO-bit 201	
2250	IO number for IO-bit 202	
2251	IO number for IO-bit 203	
2252	IO number for IO-bit 204	
2253	IO number for IO-bit 205	
2254	IO number for IO-bit 206	
2255	IO number for IO-bit 207	
2256	IO number for IO-bit 208	
2257	IO number for IO-bit 209	
2258	IO number for IO-bit 210	
2259	IO number for IO-bit 211	
2260	IO number for IO-bit 212	
2261	IO number for IO-bit 213	
2262	IO number for IO-bit 214	
2263	IO number for IO-bit 215	
2264	IO number for IO-bit 216	
2265	IO number for IO-bit 217	
2266	IO number for IO-bit 218	
2267	IO number for IO-bit 219	
2268	IO number for IO-bit 220	
2269	IO number for IO-bit 221	
2270	IO number for IO-bit 222	
2271	IO number for IO-bit 223	
2272	IO number for IO-bit 224	
2273	IO number for IO-bit 225	
2274	IO number for IO-bit 226	
2275	IO number for IO-bit 227	
2276	IO number for IO-bit 228	
2277	IO number for IO-bit 229	
2278	IO number for IO-bit 230	
2279	IO number for IO-bit 231	
2280	IO number for IO-bit 232	
2281	IO number for IO-bit 233	
2282	IO number for IO-bit 234	
2283	IO number for IO-bit 235	
2284	IO number for IO-bit 236	
2285	IO number for IO-bit 237	
2286	IO number for IO-bit 238	

Register no	Description	Scale factor / unit / note
2287	IO number for IO-bit 239	
2288	IO number for IO-bit 240	
2289	IO number for IO-bit 241	
2290	IO number for IO-bit 242	
2291	IO number for IO-bit 243	
2292	IO number for IO-bit 244	
2293	IO number for IO-bit 245	
2294	IO number for IO-bit 246	
2295	IO number for IO-bit 247	
2296	IO number for IO-bit 248	
2297	IO number for IO-bit 249	
2298	IO number for IO-bit 250	
2299	IO number for IO-bit 251	
2300	IO number for IO-bit 252	
2301	IO number for IO-bit 253	
2302	IO number for IO-bit 254	
2303	IO number for IO-bit 255	
2304	IO number for IO-bit 256	
2305	IO number for IO-bit 257	
2306	IO number for IO-bit 258	
2307	IO number for IO-bit 259	
2308	IO number for IO-bit 260	
2309	IO number for IO-bit 261	
2310	IO number for IO-bit 262	
2311	IO number for IO-bit 263	
2312	IO number for IO-bit 264	
2313	IO number for IO-bit 265	
2314	IO number for IO-bit 266	
2315	IO number for IO-bit 267	
2316	IO number for IO-bit 268	
2317	IO number for IO-bit 269	
2318	IO number for IO-bit 270	
2319	IO number for IO-bit 271	
2320	IO number for IO-bit 272	
2321	IO number for IO-bit 273	
2322	IO number for IO-bit 274	
2323	IO number for IO-bit 275	
2324	IO number for IO-bit 276	
2325	IO number for IO-bit 277	
2326	IO number for IO-bit 278	
2327	IO number for IO-bit 279	
2328	IO number for IO-bit 280	
2329	IO number for IO-bit 281	
2330	IO number for IO-bit 282	
2331	IO number for IO-bit 283	
2332	IO number for IO-bit 284	
2333	IO number for IO-bit 285	
2334	IO number for IO-bit 286	
2335	IO number for IO-bit 287	
2336	IO number for IO-bit 288	
2337	IO number for IO-bit 289	
2338	IO number for IO-bit 290	
2339	IO number for IO-bit 291	
2340	IO number for IO-bit 292	
2341	IO number for IO-bit 293	
2342	IO number for IO-bit 294	
2343	IO number for IO-bit 295	
2344	IO number for IO-bit 296	
2345	IO number for IO-bit 297	
2346	IO number for IO-bit 298	
2347	IO number for IO-bit 299	
2348	IO number for IO-bit 300	

Register no	Description	Scale factor / unit / note
2349	IO number for IO-bit 301	
2350	IO number for IO-bit 302	
2351	IO number for IO-bit 303	
2352	IO number for IO-bit 304	
2353	IO number for IO-bit 305	
2354	IO number for IO-bit 306	
2355	IO number for IO-bit 307	
2356	IO number for IO-bit 308	
2357	IO number for IO-bit 309	
2358	IO number for IO-bit 310	
2359	IO number for IO-bit 311	
2360	IO number for IO-bit 312	
2361	IO number for IO-bit 313	
2362	IO number for IO-bit 314	
2363	IO number for IO-bit 315	
2364	IO number for IO-bit 316	
2365	IO number for IO-bit 317	
2366	IO number for IO-bit 318	
2367	IO number for IO-bit 319	
2368	IO number for IO-bit 320	
2369	IO number for IO-bit 321	
2370	IO number for IO-bit 322	
2371	IO number for IO-bit 323	
2372	IO number for IO-bit 324	
2373	IO number for IO-bit 325	
2374	IO number for IO-bit 326	
2375	IO number for IO-bit 327	
2376	IO number for IO-bit 328	
2377	IO number for IO-bit 329	
2378	IO number for IO-bit 330	
2379	IO number for IO-bit 331	
2380	IO number for IO-bit 332	
2381	IO number for IO-bit 333	
2382	IO number for IO-bit 334	
2383	IO number for IO-bit 335	
2384	IO number for IO-bit 336	
2385	IO number for IO-bit 337	
2386	IO number for IO-bit 338	
2387	IO number for IO-bit 339	
2388	IO number for IO-bit 340	
2389	IO number for IO-bit 341	
2390	IO number for IO-bit 342	
2391	IO number for IO-bit 343	
2392	IO number for IO-bit 344	
2393	IO number for IO-bit 345	
2394	IO number for IO-bit 346	
2395	IO number for IO-bit 347	
2396	IO number for IO-bit 348	
2397	IO number for IO-bit 349	
2398	IO number for IO-bit 350	
2399	IO number for IO-bit 351	
2400	IO number for IO-bit 352	
2401	IO number for IO-bit 353	
2402	IO number for IO-bit 354	
2403	IO number for IO-bit 355	
2404	IO number for IO-bit 356	
2405	IO number for IO-bit 357	
2406	IO number for IO-bit 358	
2407	IO number for IO-bit 359	
2408	IO number for IO-bit 360	
2409	IO number for IO-bit 361	
2410	IO number for IO-bit 362	

Register no	Description	Scale factor / unit / note
2411	IO number for IO-bit 363	
2412	IO number for IO-bit 364	
2413	IO number for IO-bit 365	
2414	IO number for IO-bit 366	
2415	IO number for IO-bit 367	
2416	IO number for IO-bit 368	
2417	IO number for IO-bit 369	
2418	IO number for IO-bit 370	
2419	IO number for IO-bit 371	
2420	IO number for IO-bit 372	
2421	IO number for IO-bit 373	
2422	IO number for IO-bit 374	
2423	IO number for IO-bit 375	
2424	IO number for IO-bit 376	
2425	IO number for IO-bit 377	
2426	IO number for IO-bit 378	
2427	IO number for IO-bit 379	
2428	IO number for IO-bit 380	
2429	IO number for IO-bit 381	
2430	IO number for IO-bit 382	
2431	IO number for IO-bit 383	
2432	IO number for IO-bit 384	
2433	IO number for IO-bit 385	
2434	IO number for IO-bit 386	
2435	IO number for IO-bit 387	
2436	IO number for IO-bit 388	
2437	IO number for IO-bit 389	
2438	IO number for IO-bit 390	
2439	IO number for IO-bit 391	
2440	IO number for IO-bit 392	
2441	IO number for IO-bit 393	
2442	IO number for IO-bit 394	
2443	IO number for IO-bit 395	
2444	IO number for IO-bit 396	
2445	IO number for IO-bit 397	
2446	IO number for IO-bit 398	
2447	IO number for IO-bit 399	
2448	IO number for IO-bit 400	
2449	IO number for IO-bit 401	
2450	IO number for IO-bit 402	
2451	IO number for IO-bit 403	
2452	IO number for IO-bit 404	
2453	IO number for IO-bit 405	
2454	IO number for IO-bit 406	
2455	IO number for IO-bit 407	
2456	IO number for IO-bit 408	
2457	IO number for IO-bit 409	
2458	IO number for IO-bit 410	
2459	IO number for IO-bit 411	
2460	IO number for IO-bit 412	
2461	IO number for IO-bit 413	
2462	IO number for IO-bit 414	
2463	IO number for IO-bit 415	
2464	IO number for IO-bit 416	
2465	IO number for IO-bit 417	
2466	IO number for IO-bit 418	
2467	IO number for IO-bit 419	
2468	IO number for IO-bit 420	
2469	IO number for IO-bit 421	
2470	IO number for IO-bit 422	
2471	IO number for IO-bit 423	
2472	IO number for IO-bit 424	

Register no	Description	Scale factor / unit / note
2473	IO number for IO-bit 425	
2474	IO number for IO-bit 426	
2475	IO number for IO-bit 427	
2476	IO number for IO-bit 428	
2477	IO number for IO-bit 429	
2478	IO number for IO-bit 430	
2479	IO number for IO-bit 431	
2480	IO number for IO-bit 432	
2481	IO number for IO-bit 433	
2482	IO number for IO-bit 434	
2483	IO number for IO-bit 435	
2484	IO number for IO-bit 436	
2485	IO number for IO-bit 437	
2486	IO number for IO-bit 438	
2487	IO number for IO-bit 439	
2488	IO number for IO-bit 440	
2489	IO number for IO-bit 441	
2490	IO number for IO-bit 442	
2491	IO number for IO-bit 443	
2492	IO number for IO-bit 444	
2493	IO number for IO-bit 445	
2494	IO number for IO-bit 446	
2495	IO number for IO-bit 447	
2496	IO number for IO-bit 448	
2497	IO number for IO-bit 449	
2498	IO number for IO-bit 450	
2499	IO number for IO-bit 451	
2500	IO number for IO-bit 452	
2501	IO number for IO-bit 453	
2502	IO number for IO-bit 454	
2503	IO number for IO-bit 455	
2504	IO number for IO-bit 456	
2505	IO number for IO-bit 457	
2506	IO number for IO-bit 458	
2507	IO number for IO-bit 459	
2508	IO number for IO-bit 460	
2509	IO number for IO-bit 461	
2510	IO number for IO-bit 462	
2511	IO number for IO-bit 463	
2512	IO number for IO-bit 464	
2513	IO number for IO-bit 465	
2514	IO number for IO-bit 466	
2515	IO number for IO-bit 467	
2516	IO number for IO-bit 468	
2517	IO number for IO-bit 469	
2518	IO number for IO-bit 470	
2519	IO number for IO-bit 471	
2520	IO number for IO-bit 472	
2521	IO number for IO-bit 473	
2522	IO number for IO-bit 474	
2523	IO number for IO-bit 475	
2524	IO number for IO-bit 476	
2525	IO number for IO-bit 477	
2526	IO number for IO-bit 478	
2527	IO number for IO-bit 479	
2528	IO number for IO-bit 480	
2529	IO number for IO-bit 481	
2530	IO number for IO-bit 482	
2531	IO number for IO-bit 483	
2532	IO number for IO-bit 484	
2533	IO number for IO-bit 485	
2534	IO number for IO-bit 486	

Register no	Description	Scale factor / unit / note
2535	IO number for IO-bit 487	
2536	IO number for IO-bit 488	
2537	IO number for IO-bit 489	
2538	IO number for IO-bit 490	
2539	IO number for IO-bit 491	
2540	IO number for IO-bit 492	
2541	IO number for IO-bit 493	
2542	IO number for IO-bit 494	
2543	IO number for IO-bit 495	
2544	IO number for IO-bit 496	
2545	IO number for IO-bit 497	
2546	IO number for IO-bit 498	
2547	IO number for IO-bit 499	
2548	IO number for IO-bit 500	
2549	IO number for IO-bit 501	
2550	IO number for IO-bit 502	
2551	IO number for IO-bit 503	
2552	IO number for IO-bit 504	
2553	IO number for IO-bit 505	
2554	IO number for IO-bit 506	
2555	IO number for IO-bit 507	
2556	IO number for IO-bit 508	
2557	IO number for IO-bit 509	
2558	IO number for IO-bit 510	

3.1.36 Cross reference list for Data registers with scale factors.

Divide scale factor with 2 for real value (Bit 0=sign flag, 1-15=scale factor)

2560	Cross reference for Data register 0
2561	Scale factor and sign flag for Data register 0
2562	Cross reference for Data register 1
2563	Scale factor and sign flag for Data register 1
2564	Cross reference for Data register 2
2565	Scale factor and sign flag for Data register 2
2566	Cross reference for Data register 3
2567	Scale factor and sign flag for Data register 3
2568	Cross reference for Data register 4
2569	Scale factor and sign flag for Data register 4
2570	Cross reference for Data register 5
2571	Scale factor and sign flag for Data register 5
2572	Cross reference for Data register 6
2573	Scale factor and sign flag for Data register 6
2574	Cross reference for Data register 7
2575	Scale factor and sign flag for Data register 7
2576	Cross reference for Data register 8
2577	Scale factor and sign flag for Data register 8
2578	Cross reference for Data register 9
2579	Scale factor and sign flag for Data register 9
2580	Cross reference for Data register 10
2581	Scale factor and sign flag for Data register 10
2582	Cross reference for Data register 11
2583	Scale factor and sign flag for Data register 11
2584	Cross reference for Data register 12
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2588	Cross reference for Data register 14
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2592	Cross reference for Data register 16

Register no	Description	Scale factor / unit / note
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2654	Cross reference for Data register 47	

Register no	Description	Scale factor / unit / note
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2716	Cross reference for Data register 78	

Register no	Description	Scale factor / unit / note
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2778	Cross reference for Data register 109	

Register no	Description	Scale factor / unit / note
2779	Scale factor and sign flag for Data register 109	
2780	Cross reference for Data register 110	
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2838	Cross reference for Data register 139	
2839	Scale factor and sign flag for Data register 139	
2840	Cross reference for Data register 140	

Register no	Description	Scale factor / unit / note
2841	Scale factor and sign flag for Data register 140	
2842	Cross reference for Data register 141	
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2844	Cross reference for Data register 142	
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2900	Cross reference for Data register 170	
2901	Scale factor and sign flag for Data register 170	
2902	Cross reference for Data register 171	

Register no	Description	Scale factor / unit / note
2903	Scale factor and sign flag for Data register 171	
2904	Cross reference for Data register 172	
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2906	Cross reference for Data register 173	
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2964	Cross reference for Data register 202	

Register no	Description	Scale factor / unit / note
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3026	Cross reference for Data register 233	

Register no	Description	Scale factor / unit / note
3027	Scale factor and sign flag for Data register 233	
3028	Cross reference for Data register 234	
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3067	Scale factor and sign flag for Data register 253	
3068	Cross reference for Data register 254	
3069	Scale factor and sign flag for Data register 254	
3.1.37 Timeout before attention to reset personal alarm timer		
3071	Timeout personal alarm	sec
3.1.38 Alarm configuration		
3072	Alarm delay (sec) alarm 1	SYSTEM Personal alarm
3073	Alarm type for alarm 1	0=OFF, 1=A, 2=B, 3=C
3074	Alarm delay (sec) alarm 2	SYSTEM Ext.personal alarm
3075	Alarm type for alarm 2	0=OFF, 1=A, 2=B, 3=C
3076	Alarm delay (sec) alarm 3	SYSTEM UC in local mode
3077	Alarm type for alarm 3	0=OFF, 1=A, 2=B, 3=C
3078	Alarm delay (sec) alarm 4	SYSTEM Modem error
3079	Alarm type for alarm 4	0=OFF, 1=A, 2=B, 3=C
3080	Alarm delay (sec) alarm 5	SYSTEM Phone error
3081	Alarm type for alarm 5	0=OFF, 1=A, 2=B, 3=C
3082	Alarm delay (sec) alarm 6	SYSTEM High CPU temp

Register no	Description	Scale factor / unit / note
3083	Alarm type for alarm 6	0=OFF, 1=A, 2=B, 3=C
3084	Alarm delay (sec) alarm 7	SYSTEM Low voltage 3V
3085	Alarm type for alarm 7	0=OFF, 1=A, 2=B, 3=C
3086	Alarm delay (sec) alarm 8	SYSTEM 3V Battery missing
3087	Alarm type for alarm 8	0=OFF, 1=A, 2=B, 3=C
3088	Alarm delay (sec) alarm 9	SYSTEM Configuration error
3089	Alarm type for alarm 9	0=OFF, 1=A, 2=B, 3=C
3090	Alarm delay (sec) alarm 10	SYSTEM Not used
3091	Alarm type for alarm 10	0=OFF, 1=A, 2=B, 3=C
3092	Alarm delay (sec) alarm 11	SYSTEM Not used
3093	Alarm type for alarm 11	0=OFF, 1=A, 2=B, 3=C
3094	Alarm delay (sec) alarm 12	SYSTEM Not used
3095	Alarm type for alarm 12	0=OFF, 1=A, 2=B, 3=C
3096	Alarm delay (sec) alarm 13	SYSTEM Not used
3097	Alarm type for alarm 13	0=OFF, 1=A, 2=B, 3=C
3098	Alarm delay (sec) alarm 14	SYSTEM Not used
3099	Alarm type for alarm 14	0=OFF, 1=A, 2=B, 3=C
3100	Alarm delay (sec) alarm 15	SYSTEM Not used
3101	Alarm type for alarm 15	0=OFF, 1=A, 2=B, 3=C
3102	Alarm delay (sec) alarm 16	SYSTEM Not used
3103	Alarm type for alarm 16	0=OFF, 1=A, 2=B, 3=C
3104	Alarm delay (sec) alarm 17	PUMP PIT 1 High level
3105	Alarm type for alarm 17	0=OFF, 1=A, 2=B, 3=C
3106	Alarm delay (sec) alarm 18	PUMP PIT 1 Low level
3107	Alarm type for alarm 18	0=OFF, 1=A, 2=B, 3=C
3108	Alarm delay (sec) alarm 19	PUMP PIT 1 Hi float ctrl.
3109	Alarm type for alarm 19	0=OFF, 1=A, 2=B, 3=C
3110	Alarm delay (sec) alarm 20	PUMP PIT 1 High float
3111	Alarm type for alarm 20	0=OFF, 1=A, 2=B, 3=C
3112	Alarm delay (sec) alarm 21	PUMP PIT 1 Overflow
3113	Alarm type for alarm 21	0=OFF, 1=A, 2=B, 3=C
3114	Alarm delay (sec) alarm 22	PUMP PIT 1 High inflow
3115	Alarm type for alarm 22	0=OFF, 1=A, 2=B, 3=C
3116	Alarm delay (sec) alarm 23	PUMP PIT 1 Low inflow
3117	Alarm type for alarm 23	0=OFF, 1=A, 2=B, 3=C
3118	Alarm delay (sec) alarm 24	PUMP PIT 1 Not used
3119	Alarm type for alarm 24	0=OFF, 1=A, 2=B, 3=C
3120	Alarm delay (sec) alarm 25	PUMP PIT 1 Sensor error
3121	Alarm type for alarm 25	0=OFF, 1=A, 2=B, 3=C
3122	Alarm delay (sec) alarm 26	PUMP PIT 1 Pumps DIN blocked
3123	Alarm type for alarm 26	0=OFF, 1=A, 2=B, 3=C
3124	Alarm delay (sec) alarm 27	PUMP PIT 1 Error opening valve
3125	Alarm type for alarm 27	0=OFF, 1=A, 2=B, 3=C
3126	Alarm delay (sec) alarm 28	PUMP PIT 1 Error closing valve
3127	Alarm type for alarm 28	0=OFF, 1=A, 2=B, 3=C
3128	Alarm delay (sec) alarm 29	PUMP PIT 1 Valve error
3129	Alarm type for alarm 29	0=OFF, 1=A, 2=B, 3=C
3130	Alarm delay (sec) alarm 30	PUMP PIT 1 Pump block. valve
3131	Alarm type for alarm 30	0=OFF, 1=A, 2=B, 3=C
3132	Alarm delay (sec) alarm 31	PUMP PIT 1 Not used
3133	Alarm type for alarm 31	0=OFF, 1=A, 2=B, 3=C
3134	Alarm delay (sec) alarm 32	PUMP PIT 1 Not used
3135	Alarm type for alarm 32	0=OFF, 1=A, 2=B, 3=C
3136	Alarm delay (sec) alarm 33	PUMP PIT 2 High level
3137	Alarm type for alarm 33	0=OFF, 1=A, 2=B, 3=C
3138	Alarm delay (sec) alarm 34	PUMP PIT 2 Low level
3139	Alarm type for alarm 34	0=OFF, 1=A, 2=B, 3=C
3140	Alarm delay (sec) alarm 35	PUMP PIT 2 Hi float ctrl.
3141	Alarm type for alarm 35	0=OFF, 1=A, 2=B, 3=C
3142	Alarm delay (sec) alarm 36	PUMP PIT 2 High float
3143	Alarm type for alarm 36	0=OFF, 1=A, 2=B, 3=C
3144	Alarm delay (sec) alarm 37	PUMP PIT 2 Overflow

Register no	Description	Scale factor / unit / note
3145	Alarm type for alarm 37	0=OFF, 1=A, 2=B, 3=C
3146	Alarm delay (sec) alarm 38	PUMP PIT 2 High inflow
3147	Alarm type for alarm 38	0=OFF, 1=A, 2=B, 3=C
3148	Alarm delay (sec) alarm 39	PUMP PIT 2 Low inflow
3149	Alarm type for alarm 39	0=OFF, 1=A, 2=B, 3=C
3150	Alarm delay (sec) alarm 40	PUMP PIT 2 Not used
3151	Alarm type for alarm 40	0=OFF, 1=A, 2=B, 3=C
3152	Alarm delay (sec) alarm 41	PUMP PIT 2 Sensor error
3153	Alarm type for alarm 41	0=OFF, 1=A, 2=B, 3=C
3154	Alarm delay (sec) alarm 42	PUMP PIT 2 Pumps DIN blocked
3155	Alarm type for alarm 42	0=OFF, 1=A, 2=B, 3=C
3156	Alarm delay (sec) alarm 43	PUMP PIT 2 Error opening valve
3157	Alarm type for alarm 43	0=OFF, 1=A, 2=B, 3=C
3158	Alarm delay (sec) alarm 44	PUMP PIT 2 Error closing valve
3159	Alarm type for alarm 44	0=OFF, 1=A, 2=B, 3=C
3160	Alarm delay (sec) alarm 45	PUMP PIT 2 Valve error
3161	Alarm type for alarm 45	0=OFF, 1=A, 2=B, 3=C
3162	Alarm delay (sec) alarm 46	PUMP PIT 2 Pump block. valve
3163	Alarm type for alarm 46	0=OFF, 1=A, 2=B, 3=C
3164	Alarm delay (sec) alarm 47	PUMP PIT 2 Not used
3165	Alarm type for alarm 47	0=OFF, 1=A, 2=B, 3=C
3166	Alarm delay (sec) alarm 48	PUMP PIT 2 Not used
3167	Alarm type for alarm 48	0=OFF, 1=A, 2=B, 3=C
3168	Alarm delay (sec) alarm 49	PUMP PIT 3 High level
3169	Alarm type for alarm 49	0=OFF, 1=A, 2=B, 3=C
3170	Alarm delay (sec) alarm 50	PUMP PIT 3 Low level
3171	Alarm type for alarm 50	0=OFF, 1=A, 2=B, 3=C
3172	Alarm delay (sec) alarm 51	PUMP PIT 3 Hi float ctrl.
3173	Alarm type for alarm 51	0=OFF, 1=A, 2=B, 3=C
3174	Alarm delay (sec) alarm 52	PUMP PIT 3 High float
3175	Alarm type for alarm 52	0=OFF, 1=A, 2=B, 3=C
3176	Alarm delay (sec) alarm 53	PUMP PIT 3 Overflow
3177	Alarm type for alarm 53	0=OFF, 1=A, 2=B, 3=C
3178	Alarm delay (sec) alarm 54	PUMP PIT 3 High inflow
3179	Alarm type for alarm 54	0=OFF, 1=A, 2=B, 3=C
3180	Alarm delay (sec) alarm 55	PUMP PIT 3 Low inflow
3181	Alarm type for alarm 55	0=OFF, 1=A, 2=B, 3=C
3182	Alarm delay (sec) alarm 56	PUMP PIT 3 Not used
3183	Alarm type for alarm 56	0=OFF, 1=A, 2=B, 3=C
3184	Alarm delay (sec) alarm 57	PUMP PIT 3 Sensor error
3185	Alarm type for alarm 57	0=OFF, 1=A, 2=B, 3=C
3186	Alarm delay (sec) alarm 58	PUMP PIT 3 Pumps DIN blocked
3187	Alarm type for alarm 58	0=OFF, 1=A, 2=B, 3=C
3188	Alarm delay (sec) alarm 59	PUMP PIT 3 Error opening valve
3189	Alarm type for alarm 59	0=OFF, 1=A, 2=B, 3=C
3190	Alarm delay (sec) alarm 60	PUMP PIT 3 Error closing valve
3191	Alarm type for alarm 60	0=OFF, 1=A, 2=B, 3=C
3192	Alarm delay (sec) alarm 61	PUMP PIT 3 Valve error
3193	Alarm type for alarm 61	0=OFF, 1=A, 2=B, 3=C
3194	Alarm delay (sec) alarm 62	PUMP PIT 3 Pump block. valve
3195	Alarm type for alarm 62	0=OFF, 1=A, 2=B, 3=C
3196	Alarm delay (sec) alarm 63	PUMP PIT 3 Not used
3197	Alarm type for alarm 63	0=OFF, 1=A, 2=B, 3=C
3198	Alarm delay (sec) alarm 64	PUMP PIT 3 Not used
3199	Alarm type for alarm 64	0=OFF, 1=A, 2=B, 3=C
3200	Alarm delay (sec) alarm 65	PUMP PIT 4 High level
3201	Alarm type for alarm 65	0=OFF, 1=A, 2=B, 3=C
3202	Alarm delay (sec) alarm 66	PUMP PIT 4 Low level
3203	Alarm type for alarm 66	0=OFF, 1=A, 2=B, 3=C
3204	Alarm delay (sec) alarm 67	PUMP PIT 4 Hi float ctrl.
3205	Alarm type for alarm 67	0=OFF, 1=A, 2=B, 3=C
3206	Alarm delay (sec) alarm 68	PUMP PIT 4 High float

Register no	Description	Scale factor / unit / note
3207	Alarm type for alarm 68	0=OFF, 1=A, 2=B, 3=C
3208	Alarm delay (sec) alarm 69	PUMP PIT 4 Overflow
3209	Alarm type for alarm 69	0=OFF, 1=A, 2=B, 3=C
3210	Alarm delay (sec) alarm 70	PUMP PIT 4 High inflow
3211	Alarm type for alarm 70	0=OFF, 1=A, 2=B, 3=C
3212	Alarm delay (sec) alarm 71	PUMP PIT 4 Low inflow
3213	Alarm type for alarm 71	0=OFF, 1=A, 2=B, 3=C
3214	Alarm delay (sec) alarm 72	PUMP PIT 4 Not used
3215	Alarm type for alarm 72	0=OFF, 1=A, 2=B, 3=C
3216	Alarm delay (sec) alarm 73	PUMP PIT 4 Sensor error
3217	Alarm type for alarm 73	0=OFF, 1=A, 2=B, 3=C
3218	Alarm delay (sec) alarm 74	PUMP PIT 4 Pumps DIN blocked
3219	Alarm type for alarm 74	0=OFF, 1=A, 2=B, 3=C
3220	Alarm delay (sec) alarm 75	PUMP PIT 4 Error opening valve
3221	Alarm type for alarm 75	0=OFF, 1=A, 2=B, 3=C
3222	Alarm delay (sec) alarm 76	PUMP PIT 4 Error closing valve
3223	Alarm type for alarm 76	0=OFF, 1=A, 2=B, 3=C
3224	Alarm delay (sec) alarm 77	PUMP PIT 4 Valve error
3225	Alarm type for alarm 77	0=OFF, 1=A, 2=B, 3=C
3226	Alarm delay (sec) alarm 78	PUMP PIT 4 Pump block. valve
3227	Alarm type for alarm 78	0=OFF, 1=A, 2=B, 3=C
3228	Alarm delay (sec) alarm 79	PUMP PIT 4 Not used
3229	Alarm type for alarm 79	0=OFF, 1=A, 2=B, 3=C
3230	Alarm delay (sec) alarm 80	PUMP PIT 4 Not used
3231	Alarm type for alarm 80	0=OFF, 1=A, 2=B, 3=C
3232	Alarm delay (sec) alarm 81	PUMP 1 High motor current
3233	Alarm type for alarm 81	0=OFF, 1=A, 2=B, 3=C
3234	Alarm delay (sec) alarm 82	PUMP 1 Low motor current
3235	Alarm type for alarm 82	0=OFF, 1=A, 2=B, 3=C
3236	Alarm delay (sec) alarm 83	PUMP 1 Fallen motor prot.
3237	Alarm type for alarm 83	0=OFF, 1=A, 2=B, 3=C
3238	Alarm delay (sec) alarm 84	PUMP 1 Fallen temp. prot.
3239	Alarm type for alarm 84	0=OFF, 1=A, 2=B, 3=C
3240	Alarm delay (sec) alarm 85	PUMP 1 Low Pump capacity
3241	Alarm type for alarm 85	0=OFF, 1=A, 2=B, 3=C
3242	Alarm delay (sec) alarm 86	PUMP 1 No running ind.
3243	Alarm type for alarm 86	0=OFF, 1=A, 2=B, 3=C
3244	Alarm delay (sec) alarm 87	PUMP 1 Pump ext. blocked
3245	Alarm type for alarm 87	0=OFF, 1=A, 2=B, 3=C
3246	Alarm delay (sec) alarm 88	PUMP 1 Err. opening valve
3247	Alarm type for alarm 88	0=OFF, 1=A, 2=B, 3=C
3248	Alarm delay (sec) alarm 89	PUMP 1 Err. closing valve
3249	Alarm type for alarm 89	0=OFF, 1=A, 2=B, 3=C
3250	Alarm delay (sec) alarm 90	PUMP 1 Error valve
3251	Alarm type for alarm 90	0=OFF, 1=A, 2=B, 3=C
3252	Alarm delay (sec) alarm 91	PUMP 1 Pump block. valve
3253	Alarm type for alarm 91	0=OFF, 1=A, 2=B, 3=C
3254	Alarm delay (sec) alarm 92	PUMP 1 Failure motor prot.
3255	Alarm type for alarm 92	0=OFF, 1=A, 2=B, 3=C
3256	Alarm delay (sec) alarm 93	PUMP 1 Pump alarm blocked
3257	Alarm type for alarm 93	0=OFF, 1=A, 2=B, 3=C
3258	Alarm delay (sec) alarm 94	PUMP 1 Not used
3259	Alarm type for alarm 94	0=OFF, 1=A, 2=B, 3=C
3260	Alarm delay (sec) alarm 95	PUMP 1 Not used
3261	Alarm type for alarm 95	0=OFF, 1=A, 2=B, 3=C
3262	Alarm delay (sec) alarm 96	PUMP 1 Not used
3263	Alarm type for alarm 96	0=OFF, 1=A, 2=B, 3=C
3264	Alarm delay (sec) alarm 97	PUMP 2 High motor current
3265	Alarm type for alarm 97	0=OFF, 1=A, 2=B, 3=C
3266	Alarm delay (sec) alarm 98	PUMP 2 Low motor current
3267	Alarm type for alarm 98	0=OFF, 1=A, 2=B, 3=C
3268	Alarm delay (sec) alarm 99	PUMP 2 Fallen motor prot.

Register no	Description	Scale factor / unit / note
3269	Alarm type for alarm 99	0=OFF, 1=A, 2=B, 3=C
3270	Alarm delay (sec) alarm 100	PUMP 2 Fallen temp. prot.
3271	Alarm type for alarm 100	0=OFF, 1=A, 2=B, 3=C
3272	Alarm delay (sec) alarm 101	PUMP 2 Low Pump capacity
3273	Alarm type for alarm 101	0=OFF, 1=A, 2=B, 3=C
3274	Alarm delay (sec) alarm 102	PUMP 2 No running ind.
3275	Alarm type for alarm 102	0=OFF, 1=A, 2=B, 3=C
3276	Alarm delay (sec) alarm 103	PUMP 2 Pump ext. blocked
3277	Alarm type for alarm 103	0=OFF, 1=A, 2=B, 3=C
3278	Alarm delay (sec) alarm 104	PUMP 2 Err. opening valve
3279	Alarm type for alarm 104	0=OFF, 1=A, 2=B, 3=C
3280	Alarm delay (sec) alarm 105	PUMP 2 Err. closing valve
3281	Alarm type for alarm 105	0=OFF, 1=A, 2=B, 3=C
3282	Alarm delay (sec) alarm 106	PUMP 2 Error valve
3283	Alarm type for alarm 106	0=OFF, 1=A, 2=B, 3=C
3284	Alarm delay (sec) alarm 107	PUMP 2 Pump block. valve
3285	Alarm type for alarm 107	0=OFF, 1=A, 2=B, 3=C
3286	Alarm delay (sec) alarm 108	PUMP 2 Failure motor prot.
3287	Alarm type for alarm 108	0=OFF, 1=A, 2=B, 3=C
3288	Alarm delay (sec) alarm 109	PUMP 2 Pump alarm blocked
3289	Alarm type for alarm 109	0=OFF, 1=A, 2=B, 3=C
3290	Alarm delay (sec) alarm 110	PUMP 2 Not used
3291	Alarm type for alarm 110	0=OFF, 1=A, 2=B, 3=C
3292	Alarm delay (sec) alarm 111	PUMP 2 Not used
3293	Alarm type for alarm 111	0=OFF, 1=A, 2=B, 3=C
3294	Alarm delay (sec) alarm 112	PUMP 2 Not used
3295	Alarm type for alarm 112	0=OFF, 1=A, 2=B, 3=C
3296	Alarm delay (sec) alarm 113	PUMP 3 High motor current
3297	Alarm type for alarm 113	0=OFF, 1=A, 2=B, 3=C
3298	Alarm delay (sec) alarm 114	PUMP 3 Low motor current
3299	Alarm type for alarm 114	0=OFF, 1=A, 2=B, 3=C
3300	Alarm delay (sec) alarm 115	PUMP 3 Fallen motor prot.
3301	Alarm type for alarm 115	0=OFF, 1=A, 2=B, 3=C
3302	Alarm delay (sec) alarm 116	PUMP 3 Fallen temp. prot.
3303	Alarm type for alarm 116	0=OFF, 1=A, 2=B, 3=C
3304	Alarm delay (sec) alarm 117	PUMP 3 Low Pump capacity
3305	Alarm type for alarm 117	0=OFF, 1=A, 2=B, 3=C
3306	Alarm delay (sec) alarm 118	PUMP 3 No running ind.
3307	Alarm type for alarm 118	0=OFF, 1=A, 2=B, 3=C
3308	Alarm delay (sec) alarm 119	PUMP 3 Pump ext. blocked
3309	Alarm type for alarm 119	0=OFF, 1=A, 2=B, 3=C
3310	Alarm delay (sec) alarm 120	PUMP 3 Err. opening valve
3311	Alarm type for alarm 120	0=OFF, 1=A, 2=B, 3=C
3312	Alarm delay (sec) alarm 121	PUMP 3 Err. closing valve
3313	Alarm type for alarm 121	0=OFF, 1=A, 2=B, 3=C
3314	Alarm delay (sec) alarm 122	PUMP 3 Error valve
3315	Alarm type for alarm 122	0=OFF, 1=A, 2=B, 3=C
3316	Alarm delay (sec) alarm 123	PUMP 3 Pump block. valve
3317	Alarm type for alarm 123	0=OFF, 1=A, 2=B, 3=C
3318	Alarm delay (sec) alarm 124	PUMP 3 Failure motor prot.
3319	Alarm type for alarm 124	0=OFF, 1=A, 2=B, 3=C
3320	Alarm delay (sec) alarm 125	PUMP 3 Pump alarm blocked
3321	Alarm type for alarm 125	0=OFF, 1=A, 2=B, 3=C
3322	Alarm delay (sec) alarm 126	PUMP 3 Not used
3323	Alarm type for alarm 126	0=OFF, 1=A, 2=B, 3=C
3324	Alarm delay (sec) alarm 127	PUMP 3 Not used
3325	Alarm type for alarm 127	0=OFF, 1=A, 2=B, 3=C
3326	Alarm delay (sec) alarm 128	PUMP 3 Not used
3327	Alarm type for alarm 128	0=OFF, 1=A, 2=B, 3=C
3328	Alarm delay (sec) alarm 129	PUMP 4 High motor current
3329	Alarm type for alarm 129	0=OFF, 1=A, 2=B, 3=C
3330	Alarm delay (sec) alarm 130	PUMP 4 Low motor current

Register no	Description	Scale factor / unit / note
3331	Alarm type for alarm 130	0=OFF, 1=A, 2=B, 3=C
3332	Alarm delay (sec) alarm 131	PUMP 4 Fallen motor prot.
3333	Alarm type for alarm 131	0=OFF, 1=A, 2=B, 3=C
3334	Alarm delay (sec) alarm 132	PUMP 4 Fallen temp. prot.
3335	Alarm type for alarm 132	0=OFF, 1=A, 2=B, 3=C
3336	Alarm delay (sec) alarm 133	PUMP 4 Low Pump capacity
3337	Alarm type for alarm 133	0=OFF, 1=A, 2=B, 3=C
3338	Alarm delay (sec) alarm 134	PUMP 4 No running ind.
3339	Alarm type for alarm 134	0=OFF, 1=A, 2=B, 3=C
3340	Alarm delay (sec) alarm 135	PUMP 4 Pump ext. blocked
3341	Alarm type for alarm 135	0=OFF, 1=A, 2=B, 3=C
3342	Alarm delay (sec) alarm 136	PUMP 4 Err. opening valve
3343	Alarm type for alarm 136	0=OFF, 1=A, 2=B, 3=C
3344	Alarm delay (sec) alarm 137	PUMP 4 Err. closing valve
3345	Alarm type for alarm 137	0=OFF, 1=A, 2=B, 3=C
3346	Alarm delay (sec) alarm 138	PUMP 4 Error valve
3347	Alarm type for alarm 138	0=OFF, 1=A, 2=B, 3=C
3348	Alarm delay (sec) alarm 139	PUMP 4 Pump block. valve
3349	Alarm type for alarm 139	0=OFF, 1=A, 2=B, 3=C
3350	Alarm delay (sec) alarm 140	PUMP 4 Failure motor prot.
3351	Alarm type for alarm 140	0=OFF, 1=A, 2=B, 3=C
3352	Alarm delay (sec) alarm 141	PUMP 4 Pump alarm blocked
3353	Alarm type for alarm 141	0=OFF, 1=A, 2=B, 3=C
3354	Alarm delay (sec) alarm 142	PUMP 4 Not used
3355	Alarm type for alarm 142	0=OFF, 1=A, 2=B, 3=C
3356	Alarm delay (sec) alarm 143	PUMP 4 Not used
3357	Alarm type for alarm 143	0=OFF, 1=A, 2=B, 3=C
3358	Alarm delay (sec) alarm 144	PUMP 4 Not used
3359	Alarm type for alarm 144	0=OFF, 1=A, 2=B, 3=C
3360	Alarm delay (sec) alarm 145	PUMP 5 High motor current
3361	Alarm type for alarm 145	0=OFF, 1=A, 2=B, 3=C
3362	Alarm delay (sec) alarm 146	PUMP 5 Low motor current
3363	Alarm type for alarm 146	0=OFF, 1=A, 2=B, 3=C
3364	Alarm delay (sec) alarm 147	PUMP 5 Fallen motor prot.
3365	Alarm type for alarm 147	0=OFF, 1=A, 2=B, 3=C
3366	Alarm delay (sec) alarm 148	PUMP 5 Fallen temp. prot.
3367	Alarm type for alarm 148	0=OFF, 1=A, 2=B, 3=C
3368	Alarm delay (sec) alarm 149	PUMP 5 Low Pump capacity
3369	Alarm type for alarm 149	0=OFF, 1=A, 2=B, 3=C
3370	Alarm delay (sec) alarm 150	PUMP 5 No running ind.
3371	Alarm type for alarm 150	0=OFF, 1=A, 2=B, 3=C
3372	Alarm delay (sec) alarm 151	PUMP 5 Pump ext. blocked
3373	Alarm type for alarm 151	0=OFF, 1=A, 2=B, 3=C
3374	Alarm delay (sec) alarm 152	PUMP 5 Err. opening valve
3375	Alarm type for alarm 152	0=OFF, 1=A, 2=B, 3=C
3376	Alarm delay (sec) alarm 153	PUMP 5 Err. closing valve
3377	Alarm type for alarm 153	0=OFF, 1=A, 2=B, 3=C
3378	Alarm delay (sec) alarm 154	PUMP 5 Error valve
3379	Alarm type for alarm 154	0=OFF, 1=A, 2=B, 3=C
3380	Alarm delay (sec) alarm 155	PUMP 5 Pump block. valve
3381	Alarm type for alarm 155	0=OFF, 1=A, 2=B, 3=C
3382	Alarm delay (sec) alarm 156	PUMP 5 Failure motor prot.
3383	Alarm type for alarm 156	0=OFF, 1=A, 2=B, 3=C
3384	Alarm delay (sec) alarm 157	PUMP 5 Pump alarm blocked
3385	Alarm type for alarm 157	0=OFF, 1=A, 2=B, 3=C
3386	Alarm delay (sec) alarm 158	PUMP 5 Not used
3387	Alarm type for alarm 158	0=OFF, 1=A, 2=B, 3=C
3388	Alarm delay (sec) alarm 159	PUMP 5 Not used
3389	Alarm type for alarm 159	0=OFF, 1=A, 2=B, 3=C
3390	Alarm delay (sec) alarm 160	PUMP 5 Not used
3391	Alarm type for alarm 160	0=OFF, 1=A, 2=B, 3=C
3392	Alarm delay (sec) alarm 161	PUMP 6 High motor current

Register no	Description	Scale factor / unit / note
3393	Alarm type for alarm 161	0=OFF, 1=A, 2=B, 3=C
3394	Alarm delay (sec) alarm 162	PUMP 6 Low motor current
3395	Alarm type for alarm 162	0=OFF, 1=A, 2=B, 3=C
3396	Alarm delay (sec) alarm 163	PUMP 6 Fallen motor prot.
3397	Alarm type for alarm 163	0=OFF, 1=A, 2=B, 3=C
3398	Alarm delay (sec) alarm 164	PUMP 6 Fallen temp. prot.
3399	Alarm type for alarm 164	0=OFF, 1=A, 2=B, 3=C
3400	Alarm delay (sec) alarm 165	PUMP 6 Low Pump capacity
3401	Alarm type for alarm 165	0=OFF, 1=A, 2=B, 3=C
3402	Alarm delay (sec) alarm 166	PUMP 6 No running ind.
3403	Alarm type for alarm 166	0=OFF, 1=A, 2=B, 3=C
3404	Alarm delay (sec) alarm 167	PUMP 6 Pump ext. blocked
3405	Alarm type for alarm 167	0=OFF, 1=A, 2=B, 3=C
3406	Alarm delay (sec) alarm 168	PUMP 6 Err. opening valve
3407	Alarm type for alarm 168	0=OFF, 1=A, 2=B, 3=C
3408	Alarm delay (sec) alarm 169	PUMP 6 Err. closing valve
3409	Alarm type for alarm 169	0=OFF, 1=A, 2=B, 3=C
3410	Alarm delay (sec) alarm 170	PUMP 6 Error valve
3411	Alarm type for alarm 170	0=OFF, 1=A, 2=B, 3=C
3412	Alarm delay (sec) alarm 171	PUMP 6 Pump block. valve
3413	Alarm type for alarm 171	0=OFF, 1=A, 2=B, 3=C
3414	Alarm delay (sec) alarm 172	PUMP 6 Failure motor prot.
3415	Alarm type for alarm 172	0=OFF, 1=A, 2=B, 3=C
3416	Alarm delay (sec) alarm 173	PUMP 6 Pump alarm blocked
3417	Alarm type for alarm 173	0=OFF, 1=A, 2=B, 3=C
3418	Alarm delay (sec) alarm 174	PUMP 6 Not used
3419	Alarm type for alarm 174	0=OFF, 1=A, 2=B, 3=C
3420	Alarm delay (sec) alarm 175	PUMP 6 Not used
3421	Alarm type for alarm 175	0=OFF, 1=A, 2=B, 3=C
3422	Alarm delay (sec) alarm 176	PUMP 6 Not used
3423	Alarm type for alarm 176	0=OFF, 1=A, 2=B, 3=C
3424	Alarm delay (sec) alarm 177	PUMP 7 High motor current
3425	Alarm type for alarm 177	0=OFF, 1=A, 2=B, 3=C
3426	Alarm delay (sec) alarm 178	PUMP 7 Low motor current
3427	Alarm type for alarm 178	0=OFF, 1=A, 2=B, 3=C
3428	Alarm delay (sec) alarm 179	PUMP 7 Fallen motor prot.
3429	Alarm type for alarm 179	0=OFF, 1=A, 2=B, 3=C
3430	Alarm delay (sec) alarm 180	PUMP 7 Fallen temp. prot.
3431	Alarm type for alarm 180	0=OFF, 1=A, 2=B, 3=C
3432	Alarm delay (sec) alarm 181	PUMP 7 Low Pump capacity
3433	Alarm type for alarm 181	0=OFF, 1=A, 2=B, 3=C
3434	Alarm delay (sec) alarm 182	PUMP 7 No running ind.
3435	Alarm type for alarm 182	0=OFF, 1=A, 2=B, 3=C
3436	Alarm delay (sec) alarm 183	PUMP 7 Pump ext. blocked
3437	Alarm type for alarm 183	0=OFF, 1=A, 2=B, 3=C
3438	Alarm delay (sec) alarm 184	PUMP 7 Err. opening valve
3439	Alarm type for alarm 184	0=OFF, 1=A, 2=B, 3=C
3440	Alarm delay (sec) alarm 185	PUMP 7 Err. closing valve
3441	Alarm type for alarm 185	0=OFF, 1=A, 2=B, 3=C
3442	Alarm delay (sec) alarm 186	PUMP 7 Error valve
3443	Alarm type for alarm 186	0=OFF, 1=A, 2=B, 3=C
3444	Alarm delay (sec) alarm 187	PUMP 7 Pump block. valve
3445	Alarm type for alarm 187	0=OFF, 1=A, 2=B, 3=C
3446	Alarm delay (sec) alarm 188	PUMP 7 Failure motor prot.
3447	Alarm type for alarm 188	0=OFF, 1=A, 2=B, 3=C
3448	Alarm delay (sec) alarm 189	PUMP 7 Pump alarm blocked
3449	Alarm type for alarm 189	0=OFF, 1=A, 2=B, 3=C
3450	Alarm delay (sec) alarm 190	PUMP 7 Not used
3451	Alarm type for alarm 190	0=OFF, 1=A, 2=B, 3=C
3452	Alarm delay (sec) alarm 191	PUMP 7 Not used
3453	Alarm type for alarm 191	0=OFF, 1=A, 2=B, 3=C
3454	Alarm delay (sec) alarm 192	PUMP 7 Not used

Register no	Description	Scale factor / unit / note
3455	Alarm type for alarm 192	0=OFF, 1=A, 2=B, 3=C
3456	Alarm delay (sec) alarm 193	PUMP 8 High motor current
3457	Alarm type for alarm 193	0=OFF, 1=A, 2=B, 3=C
3458	Alarm delay (sec) alarm 194	PUMP 8 Low motor current
3459	Alarm type for alarm 194	0=OFF, 1=A, 2=B, 3=C
3460	Alarm delay (sec) alarm 195	PUMP 8 Fallen motor prot.
3461	Alarm type for alarm 195	0=OFF, 1=A, 2=B, 3=C
3462	Alarm delay (sec) alarm 196	PUMP 8 Fallen temp. prot.
3463	Alarm type for alarm 196	0=OFF, 1=A, 2=B, 3=C
3464	Alarm delay (sec) alarm 197	PUMP 8 Low Pump capacity
3465	Alarm type for alarm 197	0=OFF, 1=A, 2=B, 3=C
3466	Alarm delay (sec) alarm 198	PUMP 8 No running ind.
3467	Alarm type for alarm 198	0=OFF, 1=A, 2=B, 3=C
3468	Alarm delay (sec) alarm 199	PUMP 8 Pump ext. blocked
3469	Alarm type for alarm 199	0=OFF, 1=A, 2=B, 3=C
3470	Alarm delay (sec) alarm 200	PUMP 8 Err. opening valve
3471	Alarm type for alarm 200	0=OFF, 1=A, 2=B, 3=C
3472	Alarm delay (sec) alarm 201	PUMP 8 Err. closing valve
3473	Alarm type for alarm 201	0=OFF, 1=A, 2=B, 3=C
3474	Alarm delay (sec) alarm 202	PUMP 8 Error valve
3475	Alarm type for alarm 202	0=OFF, 1=A, 2=B, 3=C
3476	Alarm delay (sec) alarm 203	PUMP 8 Pump block. valve
3477	Alarm type for alarm 203	0=OFF, 1=A, 2=B, 3=C
3478	Alarm delay (sec) alarm 204	PUMP 8 Failure motor prot.
3479	Alarm type for alarm 204	0=OFF, 1=A, 2=B, 3=C
3480	Alarm delay (sec) alarm 205	PUMP 8 Pump alarm blocked
3481	Alarm type for alarm 205	0=OFF, 1=A, 2=B, 3=C
3482	Alarm delay (sec) alarm 206	PUMP 8 Not used
3483	Alarm type for alarm 206	0=OFF, 1=A, 2=B, 3=C
3484	Alarm delay (sec) alarm 207	PUMP 8 Not used
3485	Alarm type for alarm 207	0=OFF, 1=A, 2=B, 3=C
3486	Alarm delay (sec) alarm 208	PUMP 8 Not used
3487	Alarm type for alarm 208	0=OFF, 1=A, 2=B, 3=C
3488	Alarm delay (sec) alarm 209	PUMP 9 High motor current
3489	Alarm type for alarm 209	0=OFF, 1=A, 2=B, 3=C
3490	Alarm delay (sec) alarm 210	PUMP 9 Low motor current
3491	Alarm type for alarm 210	0=OFF, 1=A, 2=B, 3=C
3492	Alarm delay (sec) alarm 211	PUMP 9 Fallen motor prot.
3493	Alarm type for alarm 211	0=OFF, 1=A, 2=B, 3=C
3494	Alarm delay (sec) alarm 212	PUMP 9 Fallen temp. prot.
3495	Alarm type for alarm 212	0=OFF, 1=A, 2=B, 3=C
3496	Alarm delay (sec) alarm 213	PUMP 9 Low Pump capacity
3497	Alarm type for alarm 213	0=OFF, 1=A, 2=B, 3=C
3498	Alarm delay (sec) alarm 214	PUMP 9 No running ind.
3499	Alarm type for alarm 214	0=OFF, 1=A, 2=B, 3=C
3500	Alarm delay (sec) alarm 215	PUMP 9 Pump ext. blocked
3501	Alarm type for alarm 215	0=OFF, 1=A, 2=B, 3=C
3502	Alarm delay (sec) alarm 216	PUMP 9 Err. opening valve
3503	Alarm type for alarm 216	0=OFF, 1=A, 2=B, 3=C
3504	Alarm delay (sec) alarm 217	PUMP 9 Err. closing valve
3505	Alarm type for alarm 217	0=OFF, 1=A, 2=B, 3=C
3506	Alarm delay (sec) alarm 218	PUMP 9 Error valve
3507	Alarm type for alarm 218	0=OFF, 1=A, 2=B, 3=C
3508	Alarm delay (sec) alarm 219	PUMP 9 Pump block. valve
3509	Alarm type for alarm 219	0=OFF, 1=A, 2=B, 3=C
3510	Alarm delay (sec) alarm 220	PUMP 9 Failure motor prot.
3511	Alarm type for alarm 220	0=OFF, 1=A, 2=B, 3=C
3512	Alarm delay (sec) alarm 221	PUMP 9 Pump alarm blocked
3513	Alarm type for alarm 221	0=OFF, 1=A, 2=B, 3=C
3514	Alarm delay (sec) alarm 222	PUMP 9 Not used
3515	Alarm type for alarm 222	0=OFF, 1=A, 2=B, 3=C
3516	Alarm delay (sec) alarm 223	PUMP 9 Not used

Register no	Description	Scale factor / unit / note
3517	Alarm type for alarm 223	0=OFF, 1=A, 2=B, 3=C
3518	Alarm delay (sec) alarm 224	PUMP 9 Not used
3519	Alarm type for alarm 224	0=OFF, 1=A, 2=B, 3=C
3520	Alarm delay (sec) alarm 225	PUMP 10 High motor current
3521	Alarm type for alarm 225	0=OFF, 1=A, 2=B, 3=C
3522	Alarm delay (sec) alarm 226	PUMP 10 Low motor current
3523	Alarm type for alarm 226	0=OFF, 1=A, 2=B, 3=C
3524	Alarm delay (sec) alarm 227	PUMP 10 Fallen motor prot.
3525	Alarm type for alarm 227	0=OFF, 1=A, 2=B, 3=C
3526	Alarm delay (sec) alarm 228	PUMP 10 Fallen temp. prot.
3527	Alarm type for alarm 228	0=OFF, 1=A, 2=B, 3=C
3528	Alarm delay (sec) alarm 229	PUMP 10 Low Pump capacity
3529	Alarm type for alarm 229	0=OFF, 1=A, 2=B, 3=C
3530	Alarm delay (sec) alarm 230	PUMP 10 No running ind.
3531	Alarm type for alarm 230	0=OFF, 1=A, 2=B, 3=C
3532	Alarm delay (sec) alarm 231	PUMP 10 Pump ext. blocked
3533	Alarm type for alarm 231	0=OFF, 1=A, 2=B, 3=C
3534	Alarm delay (sec) alarm 232	PUMP 10 Err. opening valve
3535	Alarm type for alarm 232	0=OFF, 1=A, 2=B, 3=C
3536	Alarm delay (sec) alarm 233	PUMP 10 Err. closing valve
3537	Alarm type for alarm 233	0=OFF, 1=A, 2=B, 3=C
3538	Alarm delay (sec) alarm 234	PUMP 10 Error valve
3539	Alarm type for alarm 234	0=OFF, 1=A, 2=B, 3=C
3540	Alarm delay (sec) alarm 235	PUMP 10 Pump block. valve
3541	Alarm type for alarm 235	0=OFF, 1=A, 2=B, 3=C
3542	Alarm delay (sec) alarm 236	PUMP 10 Failure motor prot.
3543	Alarm type for alarm 236	0=OFF, 1=A, 2=B, 3=C
3544	Alarm delay (sec) alarm 237	PUMP 10 Pump alarm blocked
3545	Alarm type for alarm 237	0=OFF, 1=A, 2=B, 3=C
3546	Alarm delay (sec) alarm 238	PUMP 10 Not used
3547	Alarm type for alarm 238	0=OFF, 1=A, 2=B, 3=C
3548	Alarm delay (sec) alarm 239	PUMP 10 Not used
3549	Alarm type for alarm 239	0=OFF, 1=A, 2=B, 3=C
3550	Alarm delay (sec) alarm 240	PUMP 10 Not used
3551	Alarm type for alarm 240	0=OFF, 1=A, 2=B, 3=C
3552	Alarm delay (sec) alarm 241	PUMP 11 High motor current
3553	Alarm type for alarm 241	0=OFF, 1=A, 2=B, 3=C
3554	Alarm delay (sec) alarm 242	PUMP 11 Low motor current
3555	Alarm type for alarm 242	0=OFF, 1=A, 2=B, 3=C
3556	Alarm delay (sec) alarm 243	PUMP 11 Fallen motor prot.
3557	Alarm type for alarm 243	0=OFF, 1=A, 2=B, 3=C
3558	Alarm delay (sec) alarm 244	PUMP 11 Fallen temp. prot.
3559	Alarm type for alarm 244	0=OFF, 1=A, 2=B, 3=C
3560	Alarm delay (sec) alarm 245	PUMP 11 Low Pump capacity
3561	Alarm type for alarm 245	0=OFF, 1=A, 2=B, 3=C
3562	Alarm delay (sec) alarm 246	PUMP 11 No running ind.
3563	Alarm type for alarm 246	0=OFF, 1=A, 2=B, 3=C
3564	Alarm delay (sec) alarm 247	PUMP 11 Pump ext. blocked
3565	Alarm type for alarm 247	0=OFF, 1=A, 2=B, 3=C
3566	Alarm delay (sec) alarm 248	PUMP 11 Err. opening valve
3567	Alarm type for alarm 248	0=OFF, 1=A, 2=B, 3=C
3568	Alarm delay (sec) alarm 249	PUMP 11 Err. closing valve
3569	Alarm type for alarm 249	0=OFF, 1=A, 2=B, 3=C
3570	Alarm delay (sec) alarm 250	PUMP 11 Error valve
3571	Alarm type for alarm 250	0=OFF, 1=A, 2=B, 3=C
3572	Alarm delay (sec) alarm 251	PUMP 11 Pump block. valve
3573	Alarm type for alarm 251	0=OFF, 1=A, 2=B, 3=C
3574	Alarm delay (sec) alarm 252	PUMP 11 Failure motor prot.
3575	Alarm type for alarm 252	0=OFF, 1=A, 2=B, 3=C
3576	Alarm delay (sec) alarm 253	PUMP 11 Pump alarm blocked
3577	Alarm type for alarm 253	0=OFF, 1=A, 2=B, 3=C
3578	Alarm delay (sec) alarm 254	PUMP 11 Not used

Register no	Description	Scale factor / unit / note
3579	Alarm type for alarm 254	0=OFF, 1=A, 2=B, 3=C
3580	Alarm delay (sec) alarm 255	PUMP 11 Not used
3581	Alarm type for alarm 255	0=OFF, 1=A, 2=B, 3=C
3582	Alarm delay (sec) alarm 256	PUMP 11 Not used
3583	Alarm type for alarm 256	0=OFF, 1=A, 2=B, 3=C
3584	Alarm delay (sec) alarm 257	PUMP 12 High motor current
3585	Alarm type for alarm 257	0=OFF, 1=A, 2=B, 3=C
3586	Alarm delay (sec) alarm 258	PUMP 12 Low motor current
3587	Alarm type for alarm 258	0=OFF, 1=A, 2=B, 3=C
3588	Alarm delay (sec) alarm 259	PUMP 12 Fallen motor prot.
3589	Alarm type for alarm 259	0=OFF, 1=A, 2=B, 3=C
3590	Alarm delay (sec) alarm 260	PUMP 12 Fallen temp. prot.
3591	Alarm type for alarm 260	0=OFF, 1=A, 2=B, 3=C
3592	Alarm delay (sec) alarm 261	PUMP 12 Low Pump capacity
3593	Alarm type for alarm 261	0=OFF, 1=A, 2=B, 3=C
3594	Alarm delay (sec) alarm 262	PUMP 12 No running ind.
3595	Alarm type for alarm 262	0=OFF, 1=A, 2=B, 3=C
3596	Alarm delay (sec) alarm 263	PUMP 12 Pump ext. blocked
3597	Alarm type for alarm 263	0=OFF, 1=A, 2=B, 3=C
3598	Alarm delay (sec) alarm 264	PUMP 12 Err. opening valve
3599	Alarm type for alarm 264	0=OFF, 1=A, 2=B, 3=C
3600	Alarm delay (sec) alarm 265	PUMP 12 Err. closing valve
3601	Alarm type for alarm 265	0=OFF, 1=A, 2=B, 3=C
3602	Alarm delay (sec) alarm 266	PUMP 12 Error valve
3603	Alarm type for alarm 266	0=OFF, 1=A, 2=B, 3=C
3604	Alarm delay (sec) alarm 267	PUMP 12 Pump block. valve
3605	Alarm type for alarm 267	0=OFF, 1=A, 2=B, 3=C
3606	Alarm delay (sec) alarm 268	PUMP 12 Failure motor prot.
3607	Alarm type for alarm 268	0=OFF, 1=A, 2=B, 3=C
3608	Alarm delay (sec) alarm 269	PUMP 12 Pump alarm blocked
3609	Alarm type for alarm 269	0=OFF, 1=A, 2=B, 3=C
3610	Alarm delay (sec) alarm 270	PUMP 12 Not used
3611	Alarm type for alarm 270	0=OFF, 1=A, 2=B, 3=C
3612	Alarm delay (sec) alarm 271	PUMP 12 Not used
3613	Alarm type for alarm 271	0=OFF, 1=A, 2=B, 3=C
3614	Alarm delay (sec) alarm 272	PUMP 12 Not used
3615	Alarm type for alarm 272	0=OFF, 1=A, 2=B, 3=C
3616	Alarm delay (sec) alarm 273	PUMP 13 High motor current
3617	Alarm type for alarm 273	0=OFF, 1=A, 2=B, 3=C
3618	Alarm delay (sec) alarm 274	PUMP 13 Low motor current
3619	Alarm type for alarm 274	0=OFF, 1=A, 2=B, 3=C
3620	Alarm delay (sec) alarm 275	PUMP 13 Fallen motor prot.
3621	Alarm type for alarm 275	0=OFF, 1=A, 2=B, 3=C
3622	Alarm delay (sec) alarm 276	PUMP 13 Fallen temp. prot.
3623	Alarm type for alarm 276	0=OFF, 1=A, 2=B, 3=C
3624	Alarm delay (sec) alarm 277	PUMP 13 Low Pump capacity
3625	Alarm type for alarm 277	0=OFF, 1=A, 2=B, 3=C
3626	Alarm delay (sec) alarm 278	PUMP 13 No running ind.
3627	Alarm type for alarm 278	0=OFF, 1=A, 2=B, 3=C
3628	Alarm delay (sec) alarm 279	PUMP 13 Pump ext. blocked
3629	Alarm type for alarm 279	0=OFF, 1=A, 2=B, 3=C
3630	Alarm delay (sec) alarm 280	PUMP 13 Err. opening valve
3631	Alarm type for alarm 280	0=OFF, 1=A, 2=B, 3=C
3632	Alarm delay (sec) alarm 281	PUMP 13 Err. closing valve
3633	Alarm type for alarm 281	0=OFF, 1=A, 2=B, 3=C
3634	Alarm delay (sec) alarm 282	PUMP 13 Error valve
3635	Alarm type for alarm 282	0=OFF, 1=A, 2=B, 3=C
3636	Alarm delay (sec) alarm 283	PUMP 13 Pump block. valve
3637	Alarm type for alarm 283	0=OFF, 1=A, 2=B, 3=C
3638	Alarm delay (sec) alarm 284	PUMP 13 Failure motor prot.
3639	Alarm type for alarm 284	0=OFF, 1=A, 2=B, 3=C
3640	Alarm delay (sec) alarm 285	PUMP 13 Pump alarm blocked

Register no	Description	Scale factor / unit / note
3641	Alarm type for alarm 285	0=OFF, 1=A, 2=B, 3=C
3642	Alarm delay (sec) alarm 286	PUMP 13 Not used
3643	Alarm type for alarm 286	0=OFF, 1=A, 2=B, 3=C
3644	Alarm delay (sec) alarm 287	PUMP 13 Not used
3645	Alarm type for alarm 287	0=OFF, 1=A, 2=B, 3=C
3646	Alarm delay (sec) alarm 288	PUMP 13 Not used
3647	Alarm type for alarm 288	0=OFF, 1=A, 2=B, 3=C
3648	Alarm delay (sec) alarm 289	PUMP 14 High motor current
3649	Alarm type for alarm 289	0=OFF, 1=A, 2=B, 3=C
3650	Alarm delay (sec) alarm 290	PUMP 14 Low motor current
3651	Alarm type for alarm 290	0=OFF, 1=A, 2=B, 3=C
3652	Alarm delay (sec) alarm 291	PUMP 14 Fallen motor prot.
3653	Alarm type for alarm 291	0=OFF, 1=A, 2=B, 3=C
3654	Alarm delay (sec) alarm 292	PUMP 14 Fallen temp. prot.
3655	Alarm type for alarm 292	0=OFF, 1=A, 2=B, 3=C
3656	Alarm delay (sec) alarm 293	PUMP 14 Low Pump capacity
3657	Alarm type for alarm 293	0=OFF, 1=A, 2=B, 3=C
3658	Alarm delay (sec) alarm 294	PUMP 14 No running ind.
3659	Alarm type for alarm 294	0=OFF, 1=A, 2=B, 3=C
3660	Alarm delay (sec) alarm 295	PUMP 14 Pump ext. blocked
3661	Alarm type for alarm 295	0=OFF, 1=A, 2=B, 3=C
3662	Alarm delay (sec) alarm 296	PUMP 14 Err. opening valve
3663	Alarm type for alarm 296	0=OFF, 1=A, 2=B, 3=C
3664	Alarm delay (sec) alarm 297	PUMP 14 Err. closing valve
3665	Alarm type for alarm 297	0=OFF, 1=A, 2=B, 3=C
3666	Alarm delay (sec) alarm 298	PUMP 14 Error valve
3667	Alarm type for alarm 298	0=OFF, 1=A, 2=B, 3=C
3668	Alarm delay (sec) alarm 299	PUMP 14 Pump block. valve
3669	Alarm type for alarm 299	0=OFF, 1=A, 2=B, 3=C
3670	Alarm delay (sec) alarm 300	PUMP 14 Failure motor prot.
3671	Alarm type for alarm 300	0=OFF, 1=A, 2=B, 3=C
3672	Alarm delay (sec) alarm 301	PUMP 14 Pump alarm blocked
3673	Alarm type for alarm 301	0=OFF, 1=A, 2=B, 3=C
3674	Alarm delay (sec) alarm 302	PUMP 14 Not used
3675	Alarm type for alarm 302	0=OFF, 1=A, 2=B, 3=C
3676	Alarm delay (sec) alarm 303	PUMP 14 Not used
3677	Alarm type for alarm 303	0=OFF, 1=A, 2=B, 3=C
3678	Alarm delay (sec) alarm 304	PUMP 14 Not used
3679	Alarm type for alarm 304	0=OFF, 1=A, 2=B, 3=C
3680	Alarm delay (sec) alarm 305	PUMP 15 High motor current
3681	Alarm type for alarm 305	0=OFF, 1=A, 2=B, 3=C
3682	Alarm delay (sec) alarm 306	PUMP 15 Low motor current
3683	Alarm type for alarm 306	0=OFF, 1=A, 2=B, 3=C
3684	Alarm delay (sec) alarm 307	PUMP 15 Fallen motor prot.
3685	Alarm type for alarm 307	0=OFF, 1=A, 2=B, 3=C
3686	Alarm delay (sec) alarm 308	PUMP 15 Fallen temp. prot.
3687	Alarm type for alarm 308	0=OFF, 1=A, 2=B, 3=C
3688	Alarm delay (sec) alarm 309	PUMP 15 Low Pump capacity
3689	Alarm type for alarm 309	0=OFF, 1=A, 2=B, 3=C
3690	Alarm delay (sec) alarm 310	PUMP 15 No running ind.
3691	Alarm type for alarm 310	0=OFF, 1=A, 2=B, 3=C
3692	Alarm delay (sec) alarm 311	PUMP 15 Pump ext. blocked
3693	Alarm type for alarm 311	0=OFF, 1=A, 2=B, 3=C
3694	Alarm delay (sec) alarm 312	PUMP 15 Err. opening valve
3695	Alarm type for alarm 312	0=OFF, 1=A, 2=B, 3=C
3696	Alarm delay (sec) alarm 313	PUMP 15 Err. closing valve
3697	Alarm type for alarm 313	0=OFF, 1=A, 2=B, 3=C
3698	Alarm delay (sec) alarm 314	PUMP 15 Error valve
3699	Alarm type for alarm 314	0=OFF, 1=A, 2=B, 3=C
3700	Alarm delay (sec) alarm 315	PUMP 15 Pump block. valve
3701	Alarm type for alarm 315	0=OFF, 1=A, 2=B, 3=C
3702	Alarm delay (sec) alarm 316	PUMP 15 Failure motor prot.

Register no	Description	Scale factor / unit / note
3703	Alarm type for alarm 316	0=OFF, 1=A, 2=B, 3=C
3704	Alarm delay (sec) alarm 317	PUMP 15 Pump alarm blocked
3705	Alarm type for alarm 317	0=OFF, 1=A, 2=B, 3=C
3706	Alarm delay (sec) alarm 318	PUMP 15 Not used
3707	Alarm type for alarm 318	0=OFF, 1=A, 2=B, 3=C
3708	Alarm delay (sec) alarm 319	PUMP 15 Not used
3709	Alarm type for alarm 319	0=OFF, 1=A, 2=B, 3=C
3710	Alarm delay (sec) alarm 320	PUMP 15 Not used
3711	Alarm type for alarm 320	0=OFF, 1=A, 2=B, 3=C
3712	Alarm delay (sec) alarm 321	PUMP 16 High motor current
3713	Alarm type for alarm 321	0=OFF, 1=A, 2=B, 3=C
3714	Alarm delay (sec) alarm 322	PUMP 16 Low motor current
3715	Alarm type for alarm 322	0=OFF, 1=A, 2=B, 3=C
3716	Alarm delay (sec) alarm 323	PUMP 16 Fallen motor prot.
3717	Alarm type for alarm 323	0=OFF, 1=A, 2=B, 3=C
3718	Alarm delay (sec) alarm 324	PUMP 16 Fallen temp. prot.
3719	Alarm type for alarm 324	0=OFF, 1=A, 2=B, 3=C
3720	Alarm delay (sec) alarm 325	PUMP 16 Low Pump capacity
3721	Alarm type for alarm 325	0=OFF, 1=A, 2=B, 3=C
3722	Alarm delay (sec) alarm 326	PUMP 16 No running ind.
3723	Alarm type for alarm 326	0=OFF, 1=A, 2=B, 3=C
3724	Alarm delay (sec) alarm 327	PUMP 16 Pump ext. blocked
3725	Alarm type for alarm 327	0=OFF, 1=A, 2=B, 3=C
3726	Alarm delay (sec) alarm 328	PUMP 16 Err. opening valve
3727	Alarm type for alarm 328	0=OFF, 1=A, 2=B, 3=C
3728	Alarm delay (sec) alarm 329	PUMP 16 Err. closing valve
3729	Alarm type for alarm 329	0=OFF, 1=A, 2=B, 3=C
3730	Alarm delay (sec) alarm 330	PUMP 16 Error valve
3731	Alarm type for alarm 330	0=OFF, 1=A, 2=B, 3=C
3732	Alarm delay (sec) alarm 331	PUMP 16 Pump block. valve
3733	Alarm type for alarm 331	0=OFF, 1=A, 2=B, 3=C
3734	Alarm delay (sec) alarm 332	PUMP 16 Failure motor prot.
3735	Alarm type for alarm 332	0=OFF, 1=A, 2=B, 3=C
3736	Alarm delay (sec) alarm 333	PUMP 16 Pump alarm blocked
3737	Alarm type for alarm 333	0=OFF, 1=A, 2=B, 3=C
3738	Alarm delay (sec) alarm 334	PUMP 16 Not used
3739	Alarm type for alarm 334	0=OFF, 1=A, 2=B, 3=C
3740	Alarm delay (sec) alarm 335	PUMP 16 Not used
3741	Alarm type for alarm 335	0=OFF, 1=A, 2=B, 3=C
3742	Alarm delay (sec) alarm 336	PUMP 16 Not used
3743	Alarm type for alarm 336	0=OFF, 1=A, 2=B, 3=C
3744	Alarm delay (sec) alarm 337	HIGH ALARM High overflow PP1
3745	Alarm type for alarm 337	0=OFF, 1=A, 2=B, 3=C
3746	Alarm delay (sec) alarm 338	HIGH ALARM High overflow PP2
3747	Alarm type for alarm 338	0=OFF, 1=A, 2=B, 3=C
3748	Alarm delay (sec) alarm 339	HIGH ALARM High overflow PP3
3749	Alarm type for alarm 339	0=OFF, 1=A, 2=B, 3=C
3750	Alarm delay (sec) alarm 340	HIGH ALARM High overflow PP4
3751	Alarm type for alarm 340	0=OFF, 1=A, 2=B, 3=C
3752	Alarm delay (sec) alarm 341	HIGH ALARM High flow FM1
3753	Alarm type for alarm 341	0=OFF, 1=A, 2=B, 3=C
3754	Alarm delay (sec) alarm 342	HIGH ALARM High flow FM2
3755	Alarm type for alarm 342	0=OFF, 1=A, 2=B, 3=C
3756	Alarm delay (sec) alarm 343	HIGH ALARM High flow FM3
3757	Alarm type for alarm 343	0=OFF, 1=A, 2=B, 3=C
3758	Alarm delay (sec) alarm 344	HIGH ALARM High flow FM4
3759	Alarm type for alarm 344	0=OFF, 1=A, 2=B, 3=C
3760	Alarm delay (sec) alarm 345	HIGH ALARM High al. Pulse ch.1
3761	Alarm type for alarm 345	0=OFF, 1=A, 2=B, 3=C
3762	Alarm delay (sec) alarm 346	HIGH ALARM High al. Pulse ch.2
3763	Alarm type for alarm 346	0=OFF, 1=A, 2=B, 3=C
3764	Alarm delay (sec) alarm 347	HIGH ALARM High al. Pulse ch.3

Register no	Description	Scale factor / unit / note
3765	Alarm type for alarm 347	0=OFF, 1=A, 2=B, 3=C
3766	Alarm delay (sec) alarm 348	HIGH ALARM High al. Pulse ch.4
3767	Alarm type for alarm 348	0=OFF, 1=A, 2=B, 3=C
3768	Alarm delay (sec) alarm 349	HIGH ALARM High al. Pulse ch.5
3769	Alarm type for alarm 349	0=OFF, 1=A, 2=B, 3=C
3770	Alarm delay (sec) alarm 350	HIGH ALARM High al. Pulse ch.6
3771	Alarm type for alarm 350	0=OFF, 1=A, 2=B, 3=C
3772	Alarm delay (sec) alarm 351	HIGH ALARM High al. Pulse ch.7
3773	Alarm type for alarm 351	0=OFF, 1=A, 2=B, 3=C
3774	Alarm delay (sec) alarm 352	HIGH ALARM High al. Pulse ch.8
3775	Alarm type for alarm 352	0=OFF, 1=A, 2=B, 3=C
3776	Alarm delay (sec) alarm 353	REMOTE COM. Com err master ch. 1
3777	Alarm type for alarm 353	0=OFF, 1=A, 2=B, 3=C
3778	Alarm delay (sec) alarm 354	REMOTE COM. Err in calling 1
3779	Alarm type for alarm 354	0=OFF, 1=A, 2=B, 3=C
3780	Alarm delay (sec) alarm 355	REMOTE COM. Com err master ch. 2
3781	Alarm type for alarm 355	0=OFF, 1=A, 2=B, 3=C
3782	Alarm delay (sec) alarm 356	REMOTE COM. Err in calling 2
3783	Alarm type for alarm 356	0=OFF, 1=A, 2=B, 3=C
3784	Alarm delay (sec) alarm 357	REMOTE COM. Com err master ch. 3
3785	Alarm type for alarm 357	0=OFF, 1=A, 2=B, 3=C
3786	Alarm delay (sec) alarm 358	REMOTE COM. Err in calling 3
3787	Alarm type for alarm 358	0=OFF, 1=A, 2=B, 3=C
3788	Alarm delay (sec) alarm 359	REMOTE COM. Com err master ch. 4
3789	Alarm type for alarm 359	0=OFF, 1=A, 2=B, 3=C
3790	Alarm delay (sec) alarm 360	REMOTE COM. Err in calling 4
3791	Alarm type for alarm 360	0=OFF, 1=A, 2=B, 3=C
3792	Alarm delay (sec) alarm 361	REMOTE COM. Com err master ch. 5
3793	Alarm type for alarm 361	0=OFF, 1=A, 2=B, 3=C
3794	Alarm delay (sec) alarm 362	REMOTE COM. Err in calling 5
3795	Alarm type for alarm 362	0=OFF, 1=A, 2=B, 3=C
3796	Alarm delay (sec) alarm 363	REMOTE COM. Com err master ch. 6
3797	Alarm type for alarm 363	0=OFF, 1=A, 2=B, 3=C
3798	Alarm delay (sec) alarm 364	REMOTE COM. Err in calling 6
3799	Alarm type for alarm 364	0=OFF, 1=A, 2=B, 3=C
3800	Alarm delay (sec) alarm 365	REMOTE COM. Com err master ch. 7
3801	Alarm type for alarm 365	0=OFF, 1=A, 2=B, 3=C
3802	Alarm delay (sec) alarm 366	REMOTE COM. Err in calling 7
3803	Alarm type for alarm 366	0=OFF, 1=A, 2=B, 3=C
3804	Alarm delay (sec) alarm 367	REMOTE COM. Com err master ch. 8
3805	Alarm type for alarm 367	0=OFF, 1=A, 2=B, 3=C
3806	Alarm delay (sec) alarm 368	REMOTE COM. Err in calling 8
3807	Alarm type for alarm 368	0=OFF, 1=A, 2=B, 3=C
3808	Alarm delay (sec) alarm 369	IO MODULE 1 Power failure
3809	Alarm type for alarm 369	0=OFF, 1=A, 2=B, 3=C
3810	Alarm delay (sec) alarm 370	IO MODULE 1 Low voltage 12V
3811	Alarm type for alarm 370	0=OFF, 1=A, 2=B, 3=C
3812	Alarm delay (sec) alarm 371	IO MODULE 1 IO module missing
3813	Alarm type for alarm 371	0=OFF, 1=A, 2=B, 3=C
3814	Alarm delay (sec) alarm 372	IO MODULE 1 A.IN board 1 missing
3815	Alarm type for alarm 372	0=OFF, 1=A, 2=B, 3=C
3816	Alarm delay (sec) alarm 373	IO MODULE 1 A.IN board 2 missing
3817	Alarm type for alarm 373	0=OFF, 1=A, 2=B, 3=C
3818	Alarm delay (sec) alarm 374	IO MODULE 1 A.IN board 3 missing
3819	Alarm type for alarm 374	0=OFF, 1=A, 2=B, 3=C
3820	Alarm delay (sec) alarm 375	IO MODULE 1 A.IN board 4 missing
3821	Alarm type for alarm 375	0=OFF, 1=A, 2=B, 3=C
3822	Alarm delay (sec) alarm 376	IO MODULE 1 Echo/Sens.err.A.IN 1
3823	Alarm type for alarm 376	0=OFF, 1=A, 2=B, 3=C
3824	Alarm delay (sec) alarm 377	IO MODULE 1 Echo/Sens.err.A.IN 2
3825	Alarm type for alarm 377	0=OFF, 1=A, 2=B, 3=C
3826	Alarm delay (sec) alarm 378	IO MODULE 1 Echo/Sens.err.A.IN 3

Register no	Description	Scale factor / unit / note
3827	Alarm type for alarm 378	0=OFF, 1=A, 2=B, 3=C
3828	Alarm delay (sec) alarm 379	IO MODULE 1 Echo/Sens.err.A.IN 4
3829	Alarm type for alarm 379	0=OFF, 1=A, 2=B, 3=C
3830	Alarm delay (sec) alarm 380	IO MODULE 1 Not used
3831	Alarm type for alarm 380	0=OFF, 1=A, 2=B, 3=C
3832	Alarm delay (sec) alarm 381	IO MODULE 1 Not used
3833	Alarm type for alarm 381	0=OFF, 1=A, 2=B, 3=C
3834	Alarm delay (sec) alarm 382	IO MODULE 1 Not used
3835	Alarm type for alarm 382	0=OFF, 1=A, 2=B, 3=C
3836	Alarm delay (sec) alarm 383	IO MODULE 1 Not used
3837	Alarm type for alarm 383	0=OFF, 1=A, 2=B, 3=C
3838	Alarm delay (sec) alarm 384	IO MODULE 1 Not used
3839	Alarm type for alarm 384	0=OFF, 1=A, 2=B, 3=C
3840	Alarm delay (sec) alarm 385	DIN 1:1 Actual D.IN config. text
3841	Alarm type for alarm 385	0=OFF, 1=A, 2=B, 3=C
3842	Alarm delay (sec) alarm 386	DIN 1:2 Actual D.IN config. text
3843	Alarm type for alarm 386	0=OFF, 1=A, 2=B, 3=C
3844	Alarm delay (sec) alarm 387	DIN 1:3 Actual D.IN config. text
3845	Alarm type for alarm 387	0=OFF, 1=A, 2=B, 3=C
3846	Alarm delay (sec) alarm 388	DIN 1:4 Actual D.IN config. text
3847	Alarm type for alarm 388	0=OFF, 1=A, 2=B, 3=C
3848	Alarm delay (sec) alarm 389	DIN 1:5 Actual D.IN config. text
3849	Alarm type for alarm 389	0=OFF, 1=A, 2=B, 3=C
3850	Alarm delay (sec) alarm 390	DIN 1:6 Actual D.IN config. text
3851	Alarm type for alarm 390	0=OFF, 1=A, 2=B, 3=C
3852	Alarm delay (sec) alarm 391	DIN 1:7 Actual D.IN config. text
3853	Alarm type for alarm 391	0=OFF, 1=A, 2=B, 3=C
3854	Alarm delay (sec) alarm 392	DIN 1:8 Actual D.IN config. text
3855	Alarm type for alarm 392	0=OFF, 1=A, 2=B, 3=C
3856	Alarm delay (sec) alarm 393	DIN 1:9 Actual D.IN config. text
3857	Alarm type for alarm 393	0=OFF, 1=A, 2=B, 3=C
3858	Alarm delay (sec) alarm 394	DIN 1:10 Actual D.IN config. text
3859	Alarm type for alarm 394	0=OFF, 1=A, 2=B, 3=C
3860	Alarm delay (sec) alarm 395	DIN 1:11 Actual D.IN config. text
3861	Alarm type for alarm 395	0=OFF, 1=A, 2=B, 3=C
3862	Alarm delay (sec) alarm 396	DIN 1:12 Actual D.IN config. text
3863	Alarm type for alarm 396	0=OFF, 1=A, 2=B, 3=C
3864	Alarm delay (sec) alarm 397	DIN 1:13 Actual D.IN config. text
3865	Alarm type for alarm 397	0=OFF, 1=A, 2=B, 3=C
3866	Alarm delay (sec) alarm 398	DIN 1:14 Actual D.IN config. text
3867	Alarm type for alarm 398	0=OFF, 1=A, 2=B, 3=C
3868	Alarm delay (sec) alarm 399	DIN 1:15 Actual D.IN config. text
3869	Alarm type for alarm 399	0=OFF, 1=A, 2=B, 3=C
3870	Alarm delay (sec) alarm 400	DIN 1:16 Actual D.IN config. text
3871	Alarm type for alarm 400	0=OFF, 1=A, 2=B, 3=C
3872	Alarm delay (sec) alarm 401	H.Al. A.IN 1:1 Actual A.IN config. text
3873	Alarm type for alarm 401	0=OFF, 1=A, 2=B, 3=C
3874	Alarm delay (sec) alarm 402	L.Al. A.IN 1:1 Actual A.IN config. text
3875	Alarm type for alarm 402	0=OFF, 1=A, 2=B, 3=C
3876	Alarm delay (sec) alarm 403	H.Al. A.IN 1:2 Actual A.IN config. text
3877	Alarm type for alarm 403	0=OFF, 1=A, 2=B, 3=C
3878	Alarm delay (sec) alarm 404	L.Al. A.IN 1:2 Actual A.IN config. text
3879	Alarm type for alarm 404	0=OFF, 1=A, 2=B, 3=C
3880	Alarm delay (sec) alarm 405	H.Al. A.IN 1:3 Actual A.IN config. text
3881	Alarm type for alarm 405	0=OFF, 1=A, 2=B, 3=C
3882	Alarm delay (sec) alarm 406	L.Al. A.IN 1:3 Actual A.IN config. text
3883	Alarm type for alarm 406	0=OFF, 1=A, 2=B, 3=C
3884	Alarm delay (sec) alarm 407	H.Al. A.IN 1:4 Actual A.IN config. text
3885	Alarm type for alarm 407	0=OFF, 1=A, 2=B, 3=C
3886	Alarm delay (sec) alarm 408	L.Al. A.IN 1:4 Actual A.IN config. text
3887	Alarm type for alarm 408	0=OFF, 1=A, 2=B, 3=C
3888	Alarm delay (sec) alarm 409	RESERVE Not used

Register no	Description	Scale factor / unit / note
3889	Alarm type for alarm 409	0=OFF, 1=A, 2=B, 3=C
3890	Alarm delay (sec) alarm 410	RESERVE Not used
3891	Alarm type for alarm 410	0=OFF, 1=A, 2=B, 3=C
3892	Alarm delay (sec) alarm 411	RESERVE Not used
3893	Alarm type for alarm 411	0=OFF, 1=A, 2=B, 3=C
3894	Alarm delay (sec) alarm 412	RESERVE Not used
3895	Alarm type for alarm 412	0=OFF, 1=A, 2=B, 3=C
3896	Alarm delay (sec) alarm 413	RESERVE Not used
3897	Alarm type for alarm 413	0=OFF, 1=A, 2=B, 3=C
3898	Alarm delay (sec) alarm 414	RESERVE Not used
3899	Alarm type for alarm 414	0=OFF, 1=A, 2=B, 3=C
3900	Alarm delay (sec) alarm 415	RESERVE Not used
3901	Alarm type for alarm 415	0=OFF, 1=A, 2=B, 3=C
3902	Alarm delay (sec) alarm 416	RESERVE Not used
3903	Alarm type for alarm 416	0=OFF, 1=A, 2=B, 3=C
3904	Alarm delay (sec) alarm 417	D.OUT 1:1 Actual D.OUT config. text
3905	Alarm type for alarm 417	0=OFF, 1=A, 2=B, 3=C
3906	Alarm delay (sec) alarm 418	D.OUT 1:2 Actual D.OUT config. text
3907	Alarm type for alarm 418	0=OFF, 1=A, 2=B, 3=C
3908	Alarm delay (sec) alarm 419	D.OUT 1:3 Actual D.OUT config. text
3909	Alarm type for alarm 419	0=OFF, 1=A, 2=B, 3=C
3910	Alarm delay (sec) alarm 420	D.OUT 1:4 Actual D.OUT config. text
3911	Alarm type for alarm 420	0=OFF, 1=A, 2=B, 3=C
3912	Alarm delay (sec) alarm 421	D.OUT 1:5 Actual D.OUT config. text
3913	Alarm type for alarm 421	0=OFF, 1=A, 2=B, 3=C
3914	Alarm delay (sec) alarm 422	D.OUT 1:6 Actual D.OUT config. text
3915	Alarm type for alarm 422	0=OFF, 1=A, 2=B, 3=C
3916	Alarm delay (sec) alarm 423	D.OUT 1:7 Actual D.OUT config. text
3917	Alarm type for alarm 423	0=OFF, 1=A, 2=B, 3=C
3918	Alarm delay (sec) alarm 424	D.OUT 1:8 Actual D.OUT config. text
3919	Alarm type for alarm 424	0=OFF, 1=A, 2=B, 3=C
3920	Alarm delay (sec) alarm 425	H.AI A.OUT 1:1 Actual source signal text
3921	Alarm type for alarm 425	0=OFF, 1=A, 2=B, 3=C
3922	Alarm delay (sec) alarm 426	L.AI A.OUT 1:1 Actual source signal text
3923	Alarm type for alarm 426	0=OFF, 1=A, 2=B, 3=C
3924	Alarm delay (sec) alarm 427	H.AI A.OUT 1:2 Actual source signal text
3925	Alarm type for alarm 427	0=OFF, 1=A, 2=B, 3=C
3926	Alarm delay (sec) alarm 428	L.AI A.OUT 1:2 Actual source signal text
3927	Alarm type for alarm 428	0=OFF, 1=A, 2=B, 3=C
3928	Alarm delay (sec) alarm 429	RESERVE Not used
3929	Alarm type for alarm 429	0=OFF, 1=A, 2=B, 3=C
3930	Alarm delay (sec) alarm 430	RESERVE Not used
3931	Alarm type for alarm 430	0=OFF, 1=A, 2=B, 3=C
3932	Alarm delay (sec) alarm 431	RESERVE Not used
3933	Alarm type for alarm 431	0=OFF, 1=A, 2=B, 3=C
3934	Alarm delay (sec) alarm 432	RESERVE Not used
3935	Alarm type for alarm 432	0=OFF, 1=A, 2=B, 3=C
3936	Alarm delay (sec) alarm 433	IO MODULE 2 Power failure
3937	Alarm type for alarm 433	0=OFF, 1=A, 2=B, 3=C
3938	Alarm delay (sec) alarm 434	IO MODULE 2 Low voltage 12V
3939	Alarm type for alarm 434	0=OFF, 1=A, 2=B, 3=C
3940	Alarm delay (sec) alarm 435	IO MODULE 2 IO module missing
3941	Alarm type for alarm 435	0=OFF, 1=A, 2=B, 3=C
3942	Alarm delay (sec) alarm 436	IO MODULE 2 A.IN board 1 missing
3943	Alarm type for alarm 436	0=OFF, 1=A, 2=B, 3=C
3944	Alarm delay (sec) alarm 437	IO MODULE 2 A.IN board 2 missing
3945	Alarm type for alarm 437	0=OFF, 1=A, 2=B, 3=C
3946	Alarm delay (sec) alarm 438	IO MODULE 2 A.IN board 3 missing
3947	Alarm type for alarm 438	0=OFF, 1=A, 2=B, 3=C
3948	Alarm delay (sec) alarm 439	IO MODULE 2 A.IN board 4 missing
3949	Alarm type for alarm 439	0=OFF, 1=A, 2=B, 3=C
3950	Alarm delay (sec) alarm 440	IO MODULE 2 Echo/Sens.err.A.IN 1

Register no	Description	Scale factor / unit / note
3951	Alarm type for alarm 440	0=OFF, 1=A, 2=B, 3=C
3952	Alarm delay (sec) alarm 441	IO MODULE 2 Echo/Sens.err.A.IN 2
3953	Alarm type for alarm 441	0=OFF, 1=A, 2=B, 3=C
3954	Alarm delay (sec) alarm 442	IO MODULE 2 Echo/Sens.err.A.IN 3
3955	Alarm type for alarm 442	0=OFF, 1=A, 2=B, 3=C
3956	Alarm delay (sec) alarm 443	IO MODULE 2 Echo/Sens.err.A.IN 4
3957	Alarm type for alarm 443	0=OFF, 1=A, 2=B, 3=C
3958	Alarm delay (sec) alarm 444	IO MODULE 2 Not used
3959	Alarm type for alarm 444	0=OFF, 1=A, 2=B, 3=C
3960	Alarm delay (sec) alarm 445	IO MODULE 2 Not used
3961	Alarm type for alarm 445	0=OFF, 1=A, 2=B, 3=C
3962	Alarm delay (sec) alarm 446	IO MODULE 2 Not used
3963	Alarm type for alarm 446	0=OFF, 1=A, 2=B, 3=C
3964	Alarm delay (sec) alarm 447	IO MODULE 2 Not used
3965	Alarm type for alarm 447	0=OFF, 1=A, 2=B, 3=C
3966	Alarm delay (sec) alarm 448	IO MODULE 2 Not used
3967	Alarm type for alarm 448	0=OFF, 1=A, 2=B, 3=C
3968	Alarm delay (sec) alarm 449	DIN 2:1 Actual D.IN config. text
3969	Alarm type for alarm 449	0=OFF, 1=A, 2=B, 3=C
3970	Alarm delay (sec) alarm 450	DIN 2:2 Actual D.IN config. text
3971	Alarm type for alarm 450	0=OFF, 1=A, 2=B, 3=C
3972	Alarm delay (sec) alarm 451	DIN 2:3 Actual D.IN config. text
3973	Alarm type for alarm 451	0=OFF, 1=A, 2=B, 3=C
3974	Alarm delay (sec) alarm 452	DIN 2:4 Actual D.IN config. text
3975	Alarm type for alarm 452	0=OFF, 1=A, 2=B, 3=C
3976	Alarm delay (sec) alarm 453	DIN 2:5 Actual D.IN config. text
3977	Alarm type for alarm 453	0=OFF, 1=A, 2=B, 3=C
3978	Alarm delay (sec) alarm 454	DIN 2:6 Actual D.IN config. text
3979	Alarm type for alarm 454	0=OFF, 1=A, 2=B, 3=C
3980	Alarm delay (sec) alarm 455	DIN 2:7 Actual D.IN config. text
3981	Alarm type for alarm 455	0=OFF, 1=A, 2=B, 3=C
3982	Alarm delay (sec) alarm 456	DIN 2:8 Actual D.IN config. text
3983	Alarm type for alarm 456	0=OFF, 1=A, 2=B, 3=C
3984	Alarm delay (sec) alarm 457	DIN 2:9 Actual D.IN config. text
3985	Alarm type for alarm 457	0=OFF, 1=A, 2=B, 3=C
3986	Alarm delay (sec) alarm 458	DIN 2:10 Actual D.IN config. text
3987	Alarm type for alarm 458	0=OFF, 1=A, 2=B, 3=C
3988	Alarm delay (sec) alarm 459	DIN 2:11 Actual D.IN config. text
3989	Alarm type for alarm 459	0=OFF, 1=A, 2=B, 3=C
3990	Alarm delay (sec) alarm 460	DIN 2:12 Actual D.IN config. text
3991	Alarm type for alarm 460	0=OFF, 1=A, 2=B, 3=C
3992	Alarm delay (sec) alarm 461	DIN 2:13 Actual D.IN config. text
3993	Alarm type for alarm 461	0=OFF, 1=A, 2=B, 3=C
3994	Alarm delay (sec) alarm 462	DIN 2:14 Actual D.IN config. text
3995	Alarm type for alarm 462	0=OFF, 1=A, 2=B, 3=C
3996	Alarm delay (sec) alarm 463	DIN 2:15 Actual D.IN config. text
3997	Alarm type for alarm 463	0=OFF, 1=A, 2=B, 3=C
3998	Alarm delay (sec) alarm 464	DIN 2:16 Actual D.IN config. text
3999	Alarm type for alarm 464	0=OFF, 1=A, 2=B, 3=C
4000	Alarm delay (sec) alarm 465	H.AI. A.IN 2:1 Actual A.IN config. text
4001	Alarm type for alarm 465	0=OFF, 1=A, 2=B, 3=C
4002	Alarm delay (sec) alarm 466	L.AI. A.IN 2:1 Actual A.IN config. text
4003	Alarm type for alarm 466	0=OFF, 1=A, 2=B, 3=C
4004	Alarm delay (sec) alarm 467	H.AI. A.IN 2:2 Actual A.IN config. text
4005	Alarm type for alarm 467	0=OFF, 1=A, 2=B, 3=C
4006	Alarm delay (sec) alarm 468	L.AI. A.IN 2:2 Actual A.IN config. text
4007	Alarm type for alarm 468	0=OFF, 1=A, 2=B, 3=C
4008	Alarm delay (sec) alarm 469	H.AI. A.IN 2:3 Actual A.IN config. text
4009	Alarm type for alarm 469	0=OFF, 1=A, 2=B, 3=C
4010	Alarm delay (sec) alarm 470	L.AI. A.IN 2:3 Actual A.IN config. text
4011	Alarm type for alarm 470	0=OFF, 1=A, 2=B, 3=C
4012	Alarm delay (sec) alarm 471	H.AI. A.IN 2:4 Actual A.IN config. text

Register no	Description	Scale factor / unit / note
4013	Alarm type for alarm 471	0=OFF, 1=A, 2=B, 3=C
4014	Alarm delay (sec) alarm 472	L.Al. A.IN 2:4 Actual A.IN config. text
4015	Alarm type for alarm 472	0=OFF, 1=A, 2=B, 3=C
4016	Alarm delay (sec) alarm 473	RESERVE Not used
4017	Alarm type for alarm 473	0=OFF, 1=A, 2=B, 3=C
4018	Alarm delay (sec) alarm 474	RESERVE Not used
4019	Alarm type for alarm 474	0=OFF, 1=A, 2=B, 3=C
4020	Alarm delay (sec) alarm 475	RESERVE Not used
4021	Alarm type for alarm 475	0=OFF, 1=A, 2=B, 3=C
4022	Alarm delay (sec) alarm 476	RESERVE Not used
4023	Alarm type for alarm 476	0=OFF, 1=A, 2=B, 3=C
4024	Alarm delay (sec) alarm 477	RESERVE Not used
4025	Alarm type for alarm 477	0=OFF, 1=A, 2=B, 3=C
4026	Alarm delay (sec) alarm 478	RESERVE Not used
4027	Alarm type for alarm 478	0=OFF, 1=A, 2=B, 3=C
4028	Alarm delay (sec) alarm 479	RESERVE Not used
4029	Alarm type for alarm 479	0=OFF, 1=A, 2=B, 3=C
4030	Alarm delay (sec) alarm 480	RESERVE Not used
4031	Alarm type for alarm 480	0=OFF, 1=A, 2=B, 3=C
4032	Alarm delay (sec) alarm 481	D.OUT 2:1 Actual D.OUT config. text
4033	Alarm type for alarm 481	0=OFF, 1=A, 2=B, 3=C
4034	Alarm delay (sec) alarm 482	D.OUT 2:2 Actual D.OUT config. text
4035	Alarm type for alarm 482	0=OFF, 1=A, 2=B, 3=C
4036	Alarm delay (sec) alarm 483	D.OUT 2:3 Actual D.OUT config. text
4037	Alarm type for alarm 483	0=OFF, 1=A, 2=B, 3=C
4038	Alarm delay (sec) alarm 484	D.OUT 2:4 Actual D.OUT config. text
4039	Alarm type for alarm 484	0=OFF, 1=A, 2=B, 3=C
4040	Alarm delay (sec) alarm 485	D.OUT 2:5 Actual D.OUT config. text
4041	Alarm type for alarm 485	0=OFF, 1=A, 2=B, 3=C
4042	Alarm delay (sec) alarm 486	D.OUT 2:6 Actual D.OUT config. text
4043	Alarm type for alarm 486	0=OFF, 1=A, 2=B, 3=C
4044	Alarm delay (sec) alarm 487	D.OUT 2:7 Actual D.OUT config. text
4045	Alarm type for alarm 487	0=OFF, 1=A, 2=B, 3=C
4046	Alarm delay (sec) alarm 488	D.OUT 2:8 Actual D.OUT config. text
4047	Alarm type for alarm 488	0=OFF, 1=A, 2=B, 3=C
4048	Alarm delay (sec) alarm 489	H.Al A.OUT 2:1 Actual source signal text
4049	Alarm type for alarm 489	0=OFF, 1=A, 2=B, 3=C
4050	Alarm delay (sec) alarm 490	L.Al A.OUT 2:1 Actual source signal text
4051	Alarm type for alarm 490	0=OFF, 1=A, 2=B, 3=C
4052	Alarm delay (sec) alarm 491	H.Al A.OUT 2:2 Actual source signal text
4053	Alarm type for alarm 491	0=OFF, 1=A, 2=B, 3=C
4054	Alarm delay (sec) alarm 492	L.Al A.OUT 2:2 Actual source signal text
4055	Alarm type for alarm 492	0=OFF, 1=A, 2=B, 3=C
4056	Alarm delay (sec) alarm 493	RESERVE Not used
4057	Alarm type for alarm 493	0=OFF, 1=A, 2=B, 3=C
4058	Alarm delay (sec) alarm 494	RESERVE Not used
4059	Alarm type for alarm 494	0=OFF, 1=A, 2=B, 3=C
4060	Alarm delay (sec) alarm 495	RESERVE Not used
4061	Alarm type for alarm 495	0=OFF, 1=A, 2=B, 3=C
4062	Alarm delay (sec) alarm 496	RESERVE Not used
4063	Alarm type for alarm 496	0=OFF, 1=A, 2=B, 3=C
4064	Alarm delay (sec) alarm 497	IO MODULE 3 Power failure
4065	Alarm type for alarm 497	0=OFF, 1=A, 2=B, 3=C
4066	Alarm delay (sec) alarm 498	IO MODULE 3 Low voltage 12V
4067	Alarm type for alarm 498	0=OFF, 1=A, 2=B, 3=C
4068	Alarm delay (sec) alarm 499	IO MODULE 3 IO module missing
4069	Alarm type for alarm 499	0=OFF, 1=A, 2=B, 3=C
4070	Alarm delay (sec) alarm 500	IO MODULE 3 A.IN board 1 missing
4071	Alarm type for alarm 500	0=OFF, 1=A, 2=B, 3=C
4072	Alarm delay (sec) alarm 501	IO MODULE 3 A.IN board 2 missing
4073	Alarm type for alarm 501	0=OFF, 1=A, 2=B, 3=C
4074	Alarm delay (sec) alarm 502	IO MODULE 3 A.IN board 3 missing

Register no	Description	Scale factor / unit / note
4075	Alarm type for alarm 502	0=OFF, 1=A, 2=B, 3=C
4076	Alarm delay (sec) alarm 503	IO MODULE 3 A.IN board 4 missing
4077	Alarm type for alarm 503	0=OFF, 1=A, 2=B, 3=C
4078	Alarm delay (sec) alarm 504	IO MODULE 3 Echo/Sens.err.A.IN 1
4079	Alarm type for alarm 504	0=OFF, 1=A, 2=B, 3=C
4080	Alarm delay (sec) alarm 505	IO MODULE 3 Echo/Sens.err.A.IN 2
4081	Alarm type for alarm 505	0=OFF, 1=A, 2=B, 3=C
4082	Alarm delay (sec) alarm 506	IO MODULE 3 Echo/Sens.err.A.IN 3
4083	Alarm type for alarm 506	0=OFF, 1=A, 2=B, 3=C
4084	Alarm delay (sec) alarm 507	IO MODULE 3 Echo/Sens.err.A.IN 4
4085	Alarm type for alarm 507	0=OFF, 1=A, 2=B, 3=C
4086	Alarm delay (sec) alarm 508	IO MODULE 3 Not used
4087	Alarm type for alarm 508	0=OFF, 1=A, 2=B, 3=C
4088	Alarm delay (sec) alarm 509	IO MODULE 3 Not used
4089	Alarm type for alarm 509	0=OFF, 1=A, 2=B, 3=C
4090	Alarm delay (sec) alarm 510	IO MODULE 3 Not used
4091	Alarm type for alarm 510	0=OFF, 1=A, 2=B, 3=C
4092	Alarm delay (sec) alarm 511	IO MODULE 3 Not used
4093	Alarm type for alarm 511	0=OFF, 1=A, 2=B, 3=C
4094	Alarm delay (sec) alarm 512	IO MODULE 3 Not used
4095	Alarm type for alarm 512	0=OFF, 1=A, 2=B, 3=C
4096	Alarm delay (sec) alarm 513	DIN 3:1 Actual D.IN config. text
4097	Alarm type for alarm 513	0=OFF, 1=A, 2=B, 3=C
4098	Alarm delay (sec) alarm 514	DIN 3:2 Actual D.IN config. text
4099	Alarm type for alarm 514	0=OFF, 1=A, 2=B, 3=C
4100	Alarm delay (sec) alarm 515	DIN 3:3 Actual D.IN config. text
4101	Alarm type for alarm 515	0=OFF, 1=A, 2=B, 3=C
4102	Alarm delay (sec) alarm 516	DIN 3:4 Actual D.IN config. text
4103	Alarm type for alarm 516	0=OFF, 1=A, 2=B, 3=C
4104	Alarm delay (sec) alarm 517	DIN 3:5 Actual D.IN config. text
4105	Alarm type for alarm 517	0=OFF, 1=A, 2=B, 3=C
4106	Alarm delay (sec) alarm 518	DIN 3:6 Actual D.IN config. text
4107	Alarm type for alarm 518	0=OFF, 1=A, 2=B, 3=C
4108	Alarm delay (sec) alarm 519	DIN 3:7 Actual D.IN config. text
4109	Alarm type for alarm 519	0=OFF, 1=A, 2=B, 3=C
4110	Alarm delay (sec) alarm 520	DIN 3:8 Actual D.IN config. text
4111	Alarm type for alarm 520	0=OFF, 1=A, 2=B, 3=C
4112	Alarm delay (sec) alarm 521	DIN 3:9 Actual D.IN config. text
4113	Alarm type for alarm 521	0=OFF, 1=A, 2=B, 3=C
4114	Alarm delay (sec) alarm 522	DIN 3:10 Actual D.IN config. text
4115	Alarm type for alarm 522	0=OFF, 1=A, 2=B, 3=C
4116	Alarm delay (sec) alarm 523	DIN 3:11 Actual D.IN config. text
4117	Alarm type for alarm 523	0=OFF, 1=A, 2=B, 3=C
4118	Alarm delay (sec) alarm 524	DIN 3:12 Actual D.IN config. text
4119	Alarm type for alarm 524	0=OFF, 1=A, 2=B, 3=C
4120	Alarm delay (sec) alarm 525	DIN 3:13 Actual D.IN config. text
4121	Alarm type for alarm 525	0=OFF, 1=A, 2=B, 3=C
4122	Alarm delay (sec) alarm 526	DIN 3:14 Actual D.IN config. text
4123	Alarm type for alarm 526	0=OFF, 1=A, 2=B, 3=C
4124	Alarm delay (sec) alarm 527	DIN 3:15 Actual D.IN config. text
4125	Alarm type for alarm 527	0=OFF, 1=A, 2=B, 3=C
4126	Alarm delay (sec) alarm 528	DIN 3:16 Actual D.IN config. text
4127	Alarm type for alarm 528	0=OFF, 1=A, 2=B, 3=C
4128	Alarm delay (sec) alarm 529	H.AI. A.IN 3:1 Actual A.IN config. text
4129	Alarm type for alarm 529	0=OFF, 1=A, 2=B, 3=C
4130	Alarm delay (sec) alarm 530	L.AI. A.IN 3:1 Actual A.IN config. text
4131	Alarm type for alarm 530	0=OFF, 1=A, 2=B, 3=C
4132	Alarm delay (sec) alarm 531	H.AI. A.IN 3:2 Actual A.IN config. text
4133	Alarm type for alarm 531	0=OFF, 1=A, 2=B, 3=C
4134	Alarm delay (sec) alarm 532	L.AI. A.IN 3:2 Actual A.IN config. text
4135	Alarm type for alarm 532	0=OFF, 1=A, 2=B, 3=C
4136	Alarm delay (sec) alarm 533	H.AI. A.IN 3:3 Actual A.IN config. text

Register no	Description	Scale factor / unit / note
4137	Alarm type for alarm 533	0=OFF, 1=A, 2=B, 3=C
4138	Alarm delay (sec) alarm 534	L.AI. A.IN 3:3 Actual A.IN config. text
4139	Alarm type for alarm 534	0=OFF, 1=A, 2=B, 3=C
4140	Alarm delay (sec) alarm 535	H.AI. A.IN 3:4 Actual A.IN config. text
4141	Alarm type for alarm 535	0=OFF, 1=A, 2=B, 3=C
4142	Alarm delay (sec) alarm 536	L.AI. A.IN 3:4 Actual A.IN config. text
4143	Alarm type for alarm 536	0=OFF, 1=A, 2=B, 3=C
4144	Alarm delay (sec) alarm 537	RESERVE Not used
4145	Alarm type for alarm 537	0=OFF, 1=A, 2=B, 3=C
4146	Alarm delay (sec) alarm 538	RESERVE Not used
4147	Alarm type for alarm 538	0=OFF, 1=A, 2=B, 3=C
4148	Alarm delay (sec) alarm 539	RESERVE Not used
4149	Alarm type for alarm 539	0=OFF, 1=A, 2=B, 3=C
4150	Alarm delay (sec) alarm 540	RESERVE Not used
4151	Alarm type for alarm 540	0=OFF, 1=A, 2=B, 3=C
4152	Alarm delay (sec) alarm 541	RESERVE Not used
4153	Alarm type for alarm 541	0=OFF, 1=A, 2=B, 3=C
4154	Alarm delay (sec) alarm 542	RESERVE Not used
4155	Alarm type for alarm 542	0=OFF, 1=A, 2=B, 3=C
4156	Alarm delay (sec) alarm 543	RESERVE Not used
4157	Alarm type for alarm 543	0=OFF, 1=A, 2=B, 3=C
4158	Alarm delay (sec) alarm 544	RESERVE Not used
4159	Alarm type for alarm 544	0=OFF, 1=A, 2=B, 3=C
4160	Alarm delay (sec) alarm 545	D.OUT 3:1 Actual D.OUT config. text
4161	Alarm type for alarm 545	0=OFF, 1=A, 2=B, 3=C
4162	Alarm delay (sec) alarm 546	D.OUT 3:2 Actual D.OUT config. text
4163	Alarm type for alarm 546	0=OFF, 1=A, 2=B, 3=C
4164	Alarm delay (sec) alarm 547	D.OUT 3:3 Actual D.OUT config. text
4165	Alarm type for alarm 547	0=OFF, 1=A, 2=B, 3=C
4166	Alarm delay (sec) alarm 548	D.OUT 3:4 Actual D.OUT config. text
4167	Alarm type for alarm 548	0=OFF, 1=A, 2=B, 3=C
4168	Alarm delay (sec) alarm 549	D.OUT 3:5 Actual D.OUT config. text
4169	Alarm type for alarm 549	0=OFF, 1=A, 2=B, 3=C
4170	Alarm delay (sec) alarm 550	D.OUT 3:6 Actual D.OUT config. text
4171	Alarm type for alarm 550	0=OFF, 1=A, 2=B, 3=C
4172	Alarm delay (sec) alarm 551	D.OUT 3:7 Actual D.OUT config. text
4173	Alarm type for alarm 551	0=OFF, 1=A, 2=B, 3=C
4174	Alarm delay (sec) alarm 552	D.OUT 3:8 Actual D.OUT config. text
4175	Alarm type for alarm 552	0=OFF, 1=A, 2=B, 3=C
4176	Alarm delay (sec) alarm 553	H.AI A.OUT 3:1 Actual source signal text
4177	Alarm type for alarm 553	0=OFF, 1=A, 2=B, 3=C
4178	Alarm delay (sec) alarm 554	L.AI A.OUT 3:1 Actual source signal text
4179	Alarm type for alarm 554	0=OFF, 1=A, 2=B, 3=C
4180	Alarm delay (sec) alarm 555	H.AI A.OUT 3:2 Actual source signal text
4181	Alarm type for alarm 555	0=OFF, 1=A, 2=B, 3=C
4182	Alarm delay (sec) alarm 556	L.AI A.OUT 3:2 Actual source signal text
4183	Alarm type for alarm 556	0=OFF, 1=A, 2=B, 3=C
4184	Alarm delay (sec) alarm 557	RESERVE Not used
4185	Alarm type for alarm 557	0=OFF, 1=A, 2=B, 3=C
4186	Alarm delay (sec) alarm 558	RESERVE Not used
4187	Alarm type for alarm 558	0=OFF, 1=A, 2=B, 3=C
4188	Alarm delay (sec) alarm 559	RESERVE Not used
4189	Alarm type for alarm 559	0=OFF, 1=A, 2=B, 3=C
4190	Alarm delay (sec) alarm 560	RESERVE Not used
4191	Alarm type for alarm 560	0=OFF, 1=A, 2=B, 3=C
4192	Alarm delay (sec) alarm 561	IO MODULE 4 Power failure
4193	Alarm type for alarm 561	0=OFF, 1=A, 2=B, 3=C
4194	Alarm delay (sec) alarm 562	IO MODULE 4 Low voltage 12V
4195	Alarm type for alarm 562	0=OFF, 1=A, 2=B, 3=C
4196	Alarm delay (sec) alarm 563	IO MODULE 4 IO module missing
4197	Alarm type for alarm 563	0=OFF, 1=A, 2=B, 3=C
4198	Alarm delay (sec) alarm 564	IO MODULE 4 A.IN board 1 missing

Register no	Description	Scale factor / unit / note
4199	Alarm type for alarm 564	0=OFF, 1=A, 2=B, 3=C
4200	Alarm delay (sec) alarm 565	IO MODULE 4 A.IN board 2 missing
4201	Alarm type for alarm 565	0=OFF, 1=A, 2=B, 3=C
4202	Alarm delay (sec) alarm 566	IO MODULE 4 A.IN board 3 missing
4203	Alarm type for alarm 566	0=OFF, 1=A, 2=B, 3=C
4204	Alarm delay (sec) alarm 567	IO MODULE 4 A.IN board 4 missing
4205	Alarm type for alarm 567	0=OFF, 1=A, 2=B, 3=C
4206	Alarm delay (sec) alarm 568	IO MODULE 4 Echo/Sens.err.A.IN 1
4207	Alarm type for alarm 568	0=OFF, 1=A, 2=B, 3=C
4208	Alarm delay (sec) alarm 569	IO MODULE 4 Echo/Sens.err.A.IN 2
4209	Alarm type for alarm 569	0=OFF, 1=A, 2=B, 3=C
4210	Alarm delay (sec) alarm 570	IO MODULE 4 Echo/Sens.err.A.IN 3
4211	Alarm type for alarm 570	0=OFF, 1=A, 2=B, 3=C
4212	Alarm delay (sec) alarm 571	IO MODULE 4 Echo/Sens.err.A.IN 4
4213	Alarm type for alarm 571	0=OFF, 1=A, 2=B, 3=C
4214	Alarm delay (sec) alarm 572	IO MODULE 4 Not used
4215	Alarm type for alarm 572	0=OFF, 1=A, 2=B, 3=C
4216	Alarm delay (sec) alarm 573	IO MODULE 4 Not used
4217	Alarm type for alarm 573	0=OFF, 1=A, 2=B, 3=C
4218	Alarm delay (sec) alarm 574	IO MODULE 4 Not used
4219	Alarm type for alarm 574	0=OFF, 1=A, 2=B, 3=C
4220	Alarm delay (sec) alarm 575	IO MODULE 4 Not used
4221	Alarm type for alarm 575	0=OFF, 1=A, 2=B, 3=C
4222	Alarm delay (sec) alarm 576	IO MODULE 4 Not used
4223	Alarm type for alarm 576	0=OFF, 1=A, 2=B, 3=C
4224	Alarm delay (sec) alarm 577	DIN 4:1 Actual D.IN config. text
4225	Alarm type for alarm 577	0=OFF, 1=A, 2=B, 3=C
4226	Alarm delay (sec) alarm 578	DIN 4:2 Actual D.IN config. text
4227	Alarm type for alarm 578	0=OFF, 1=A, 2=B, 3=C
4228	Alarm delay (sec) alarm 579	DIN 4:3 Actual D.IN config. text
4229	Alarm type for alarm 579	0=OFF, 1=A, 2=B, 3=C
4230	Alarm delay (sec) alarm 580	DIN 4:4 Actual D.IN config. text
4231	Alarm type for alarm 580	0=OFF, 1=A, 2=B, 3=C
4232	Alarm delay (sec) alarm 581	DIN 4:5 Actual D.IN config. text
4233	Alarm type for alarm 581	0=OFF, 1=A, 2=B, 3=C
4234	Alarm delay (sec) alarm 582	DIN 4:6 Actual D.IN config. text
4235	Alarm type for alarm 582	0=OFF, 1=A, 2=B, 3=C
4236	Alarm delay (sec) alarm 583	DIN 4:7 Actual D.IN config. text
4237	Alarm type for alarm 583	0=OFF, 1=A, 2=B, 3=C
4238	Alarm delay (sec) alarm 584	DIN 4:8 Actual D.IN config. text
4239	Alarm type for alarm 584	0=OFF, 1=A, 2=B, 3=C
4240	Alarm delay (sec) alarm 585	DIN 4:9 Actual D.IN config. text
4241	Alarm type for alarm 585	0=OFF, 1=A, 2=B, 3=C
4242	Alarm delay (sec) alarm 586	DIN 4:10 Actual D.IN config. text
4243	Alarm type for alarm 586	0=OFF, 1=A, 2=B, 3=C
4244	Alarm delay (sec) alarm 587	DIN 4:11 Actual D.IN config. text
4245	Alarm type for alarm 587	0=OFF, 1=A, 2=B, 3=C
4246	Alarm delay (sec) alarm 588	DIN 4:12 Actual D.IN config. text
4247	Alarm type for alarm 588	0=OFF, 1=A, 2=B, 3=C
4248	Alarm delay (sec) alarm 589	DIN 4:13 Actual D.IN config. text
4249	Alarm type for alarm 589	0=OFF, 1=A, 2=B, 3=C
4250	Alarm delay (sec) alarm 590	DIN 4:14 Actual D.IN config. text
4251	Alarm type for alarm 590	0=OFF, 1=A, 2=B, 3=C
4252	Alarm delay (sec) alarm 591	DIN 4:15 Actual D.IN config. text
4253	Alarm type for alarm 591	0=OFF, 1=A, 2=B, 3=C
4254	Alarm delay (sec) alarm 592	DIN 4:16 Actual D.IN config. text
4255	Alarm type for alarm 592	0=OFF, 1=A, 2=B, 3=C
4256	Alarm delay (sec) alarm 593	H.AI. A.IN 4:1 Actual A.IN config. text
4257	Alarm type for alarm 593	0=OFF, 1=A, 2=B, 3=C
4258	Alarm delay (sec) alarm 594	L.AI. A.IN 4:1 Actual A.IN config. text
4259	Alarm type for alarm 594	0=OFF, 1=A, 2=B, 3=C
4260	Alarm delay (sec) alarm 595	H.AI. A.IN 4:2 Actual A.IN config. text

Register no	Description	Scale factor / unit / note
4261	Alarm type for alarm 595	0=OFF, 1=A, 2=B, 3=C
4262	Alarm delay (sec) alarm 596	L.AI. A.IN 4:2 Actual A.IN config. text
4263	Alarm type for alarm 596	0=OFF, 1=A, 2=B, 3=C
4264	Alarm delay (sec) alarm 597	H.AI. A.IN 4:3 Actual A.IN config. text
4265	Alarm type for alarm 597	0=OFF, 1=A, 2=B, 3=C
4266	Alarm delay (sec) alarm 598	L.AI. A.IN 4:3 Actual A.IN config. text
4267	Alarm type for alarm 598	0=OFF, 1=A, 2=B, 3=C
4268	Alarm delay (sec) alarm 599	H.AI. A.IN 4:4 Actual A.IN config. text
4269	Alarm type for alarm 599	0=OFF, 1=A, 2=B, 3=C
4270	Alarm delay (sec) alarm 600	L.AI. A.IN 4:4 Actual A.IN config. text
4271	Alarm type for alarm 600	0=OFF, 1=A, 2=B, 3=C
4272	Alarm delay (sec) alarm 601	RESERVE Not used
4273	Alarm type for alarm 601	0=OFF, 1=A, 2=B, 3=C
4274	Alarm delay (sec) alarm 602	RESERVE Not used
4275	Alarm type for alarm 602	0=OFF, 1=A, 2=B, 3=C
4276	Alarm delay (sec) alarm 603	RESERVE Not used
4277	Alarm type for alarm 603	0=OFF, 1=A, 2=B, 3=C
4278	Alarm delay (sec) alarm 604	RESERVE Not used
4279	Alarm type for alarm 604	0=OFF, 1=A, 2=B, 3=C
4280	Alarm delay (sec) alarm 605	RESERVE Not used
4281	Alarm type for alarm 605	0=OFF, 1=A, 2=B, 3=C
4282	Alarm delay (sec) alarm 606	RESERVE Not used
4283	Alarm type for alarm 606	0=OFF, 1=A, 2=B, 3=C
4284	Alarm delay (sec) alarm 607	RESERVE Not used
4285	Alarm type for alarm 607	0=OFF, 1=A, 2=B, 3=C
4286	Alarm delay (sec) alarm 608	RESERVE Not used
4287	Alarm type for alarm 608	0=OFF, 1=A, 2=B, 3=C
4288	Alarm delay (sec) alarm 609	D.OUT 4:1 Actual D.OUT config. text
4289	Alarm type for alarm 609	0=OFF, 1=A, 2=B, 3=C
4290	Alarm delay (sec) alarm 610	D.OUT 4:2 Actual D.OUT config. text
4291	Alarm type for alarm 610	0=OFF, 1=A, 2=B, 3=C
4292	Alarm delay (sec) alarm 611	D.OUT 4:3 Actual D.OUT config. text
4293	Alarm type for alarm 611	0=OFF, 1=A, 2=B, 3=C
4294	Alarm delay (sec) alarm 612	D.OUT 4:4 Actual D.OUT config. text
4295	Alarm type for alarm 612	0=OFF, 1=A, 2=B, 3=C
4296	Alarm delay (sec) alarm 613	D.OUT 4:5 Actual D.OUT config. text
4297	Alarm type for alarm 613	0=OFF, 1=A, 2=B, 3=C
4298	Alarm delay (sec) alarm 614	D.OUT 4:6 Actual D.OUT config. text
4299	Alarm type for alarm 614	0=OFF, 1=A, 2=B, 3=C
4300	Alarm delay (sec) alarm 615	D.OUT 4:7 Actual D.OUT config. text
4301	Alarm type for alarm 615	0=OFF, 1=A, 2=B, 3=C
4302	Alarm delay (sec) alarm 616	D.OUT 4:8 Actual D.OUT config. text
4303	Alarm type for alarm 616	0=OFF, 1=A, 2=B, 3=C
4304	Alarm delay (sec) alarm 617	H.AI A.OUT 4:1 Actual source signal text
4305	Alarm type for alarm 617	0=OFF, 1=A, 2=B, 3=C
4306	Alarm delay (sec) alarm 618	L.AI A.OUT 4:1 Actual source signal text
4307	Alarm type for alarm 618	0=OFF, 1=A, 2=B, 3=C
4308	Alarm delay (sec) alarm 619	H.AI A.OUT 4:2 Actual source signal text
4309	Alarm type for alarm 619	0=OFF, 1=A, 2=B, 3=C
4310	Alarm delay (sec) alarm 620	L.AI A.OUT 4:2 Actual source signal text
4311	Alarm type for alarm 620	0=OFF, 1=A, 2=B, 3=C
4312	Alarm delay (sec) alarm 621	RESERVE Not used
4313	Alarm type for alarm 621	0=OFF, 1=A, 2=B, 3=C
4314	Alarm delay (sec) alarm 622	RESERVE Not used
4315	Alarm type for alarm 622	0=OFF, 1=A, 2=B, 3=C
4316	Alarm delay (sec) alarm 623	RESERVE Not used
4317	Alarm type for alarm 623	0=OFF, 1=A, 2=B, 3=C
4318	Alarm delay (sec) alarm 624	RESERVE Not used
4319	Alarm type for alarm 624	0=OFF, 1=A, 2=B, 3=C
4320	Alarm delay (sec) alarm 625	IO MODULE 5 Power failure
4321	Alarm type for alarm 625	0=OFF, 1=A, 2=B, 3=C
4322	Alarm delay (sec) alarm 626	IO MODULE 5 Low voltage 12V

Register no	Description	Scale factor / unit / note
4323	Alarm type for alarm 626	0=OFF, 1=A, 2=B, 3=C
4324	Alarm delay (sec) alarm 627	IO MODULE 5 IO module missing
4325	Alarm type for alarm 627	0=OFF, 1=A, 2=B, 3=C
4326	Alarm delay (sec) alarm 628	IO MODULE 5 A.IN board 1 missing
4327	Alarm type for alarm 628	0=OFF, 1=A, 2=B, 3=C
4328	Alarm delay (sec) alarm 629	IO MODULE 5 A.IN board 2 missing
4329	Alarm type for alarm 629	0=OFF, 1=A, 2=B, 3=C
4330	Alarm delay (sec) alarm 630	IO MODULE 5 A.IN board 3 missing
4331	Alarm type for alarm 630	0=OFF, 1=A, 2=B, 3=C
4332	Alarm delay (sec) alarm 631	IO MODULE 5 A.IN board 4 missing
4333	Alarm type for alarm 631	0=OFF, 1=A, 2=B, 3=C
4334	Alarm delay (sec) alarm 632	IO MODULE 5 Echo/Sens.err.A.IN 1
4335	Alarm type for alarm 632	0=OFF, 1=A, 2=B, 3=C
4336	Alarm delay (sec) alarm 633	IO MODULE 5 Echo/Sens.err.A.IN 2
4337	Alarm type for alarm 633	0=OFF, 1=A, 2=B, 3=C
4338	Alarm delay (sec) alarm 634	IO MODULE 5 Echo/Sens.err.A.IN 3
4339	Alarm type for alarm 634	0=OFF, 1=A, 2=B, 3=C
4340	Alarm delay (sec) alarm 635	IO MODULE 5 Echo/Sens.err.A.IN 4
4341	Alarm type for alarm 635	0=OFF, 1=A, 2=B, 3=C
4342	Alarm delay (sec) alarm 636	IO MODULE 5 Not used
4343	Alarm type for alarm 636	0=OFF, 1=A, 2=B, 3=C
4344	Alarm delay (sec) alarm 637	IO MODULE 5 Not used
4345	Alarm type for alarm 637	0=OFF, 1=A, 2=B, 3=C
4346	Alarm delay (sec) alarm 638	IO MODULE 5 Not used
4347	Alarm type for alarm 638	0=OFF, 1=A, 2=B, 3=C
4348	Alarm delay (sec) alarm 639	IO MODULE 5 Not used
4349	Alarm type for alarm 639	0=OFF, 1=A, 2=B, 3=C
4350	Alarm delay (sec) alarm 640	IO MODULE 5 Not used
4351	Alarm type for alarm 640	0=OFF, 1=A, 2=B, 3=C
4352	Alarm delay (sec) alarm 641	DIN 5:1 Actual D.IN config. text
4353	Alarm type for alarm 641	0=OFF, 1=A, 2=B, 3=C
4354	Alarm delay (sec) alarm 642	DIN 5:2 Actual D.IN config. text
4355	Alarm type for alarm 642	0=OFF, 1=A, 2=B, 3=C
4356	Alarm delay (sec) alarm 643	DIN 5:3 Actual D.IN config. text
4357	Alarm type for alarm 643	0=OFF, 1=A, 2=B, 3=C
4358	Alarm delay (sec) alarm 644	DIN 5:4 Actual D.IN config. text
4359	Alarm type for alarm 644	0=OFF, 1=A, 2=B, 3=C
4360	Alarm delay (sec) alarm 645	DIN 5:5 Actual D.IN config. text
4361	Alarm type for alarm 645	0=OFF, 1=A, 2=B, 3=C
4362	Alarm delay (sec) alarm 646	DIN 5:6 Actual D.IN config. text
4363	Alarm type for alarm 646	0=OFF, 1=A, 2=B, 3=C
4364	Alarm delay (sec) alarm 647	DIN 5:7 Actual D.IN config. text
4365	Alarm type for alarm 647	0=OFF, 1=A, 2=B, 3=C
4366	Alarm delay (sec) alarm 648	DIN 5:8 Actual D.IN config. text
4367	Alarm type for alarm 648	0=OFF, 1=A, 2=B, 3=C
4368	Alarm delay (sec) alarm 649	DIN 5:9 Actual D.IN config. text
4369	Alarm type for alarm 649	0=OFF, 1=A, 2=B, 3=C
4370	Alarm delay (sec) alarm 650	DIN 5:10 Actual D.IN config. text
4371	Alarm type for alarm 650	0=OFF, 1=A, 2=B, 3=C
4372	Alarm delay (sec) alarm 651	DIN 5:11 Actual D.IN config. text
4373	Alarm type for alarm 651	0=OFF, 1=A, 2=B, 3=C
4374	Alarm delay (sec) alarm 652	DIN 5:12 Actual D.IN config. text
4375	Alarm type for alarm 652	0=OFF, 1=A, 2=B, 3=C
4376	Alarm delay (sec) alarm 653	DIN 5:13 Actual D.IN config. text
4377	Alarm type for alarm 653	0=OFF, 1=A, 2=B, 3=C
4378	Alarm delay (sec) alarm 654	DIN 5:14 Actual D.IN config. text
4379	Alarm type for alarm 654	0=OFF, 1=A, 2=B, 3=C
4380	Alarm delay (sec) alarm 655	DIN 5:15 Actual D.IN config. text
4381	Alarm type for alarm 655	0=OFF, 1=A, 2=B, 3=C
4382	Alarm delay (sec) alarm 656	DIN 5:16 Actual D.IN config. text
4383	Alarm type for alarm 656	0=OFF, 1=A, 2=B, 3=C
4384	Alarm delay (sec) alarm 657	H.AI. A.IN 5:1 Actual A.IN config. text

Register no	Description	Scale factor / unit / note
4385	Alarm type for alarm 657	0=OFF, 1=A, 2=B, 3=C
4386	Alarm delay (sec) alarm 658	L.AI. A.IN 5:1 Actual A.IN config. text
4387	Alarm type for alarm 658	0=OFF, 1=A, 2=B, 3=C
4388	Alarm delay (sec) alarm 659	H.AI. A.IN 5:2 Actual A.IN config. text
4389	Alarm type for alarm 659	0=OFF, 1=A, 2=B, 3=C
4390	Alarm delay (sec) alarm 660	L.AI. A.IN 5:2 Actual A.IN config. text
4391	Alarm type for alarm 660	0=OFF, 1=A, 2=B, 3=C
4392	Alarm delay (sec) alarm 661	H.AI. A.IN 5:3 Actual A.IN config. text
4393	Alarm type for alarm 661	0=OFF, 1=A, 2=B, 3=C
4394	Alarm delay (sec) alarm 662	L.AI. A.IN 5:3 Actual A.IN config. text
4395	Alarm type for alarm 662	0=OFF, 1=A, 2=B, 3=C
4396	Alarm delay (sec) alarm 663	H.AI. A.IN 5:4 Actual A.IN config. text
4397	Alarm type for alarm 663	0=OFF, 1=A, 2=B, 3=C
4398	Alarm delay (sec) alarm 664	L.AI. A.IN 5:4 Actual A.IN config. text
4399	Alarm type for alarm 664	0=OFF, 1=A, 2=B, 3=C
4400	Alarm delay (sec) alarm 665	RESERVE Not used
4401	Alarm type for alarm 665	0=OFF, 1=A, 2=B, 3=C
4402	Alarm delay (sec) alarm 666	RESERVE Not used
4403	Alarm type for alarm 666	0=OFF, 1=A, 2=B, 3=C
4404	Alarm delay (sec) alarm 667	RESERVE Not used
4405	Alarm type for alarm 667	0=OFF, 1=A, 2=B, 3=C
4406	Alarm delay (sec) alarm 668	RESERVE Not used
4407	Alarm type for alarm 668	0=OFF, 1=A, 2=B, 3=C
4408	Alarm delay (sec) alarm 669	RESERVE Not used
4409	Alarm type for alarm 669	0=OFF, 1=A, 2=B, 3=C
4410	Alarm delay (sec) alarm 670	RESERVE Not used
4411	Alarm type for alarm 670	0=OFF, 1=A, 2=B, 3=C
4412	Alarm delay (sec) alarm 671	RESERVE Not used
4413	Alarm type for alarm 671	0=OFF, 1=A, 2=B, 3=C
4414	Alarm delay (sec) alarm 672	RESERVE Not used
4415	Alarm type for alarm 672	0=OFF, 1=A, 2=B, 3=C
4416	Alarm delay (sec) alarm 673	D.OUT 5:1 Actual D.OUT config. text
4417	Alarm type for alarm 673	0=OFF, 1=A, 2=B, 3=C
4418	Alarm delay (sec) alarm 674	D.OUT 5:2 Actual D.OUT config. text
4419	Alarm type for alarm 674	0=OFF, 1=A, 2=B, 3=C
4420	Alarm delay (sec) alarm 675	D.OUT 5:3 Actual D.OUT config. text
4421	Alarm type for alarm 675	0=OFF, 1=A, 2=B, 3=C
4422	Alarm delay (sec) alarm 676	D.OUT 5:4 Actual D.OUT config. text
4423	Alarm type for alarm 676	0=OFF, 1=A, 2=B, 3=C
4424	Alarm delay (sec) alarm 677	D.OUT 5:5 Actual D.OUT config. text
4425	Alarm type for alarm 677	0=OFF, 1=A, 2=B, 3=C
4426	Alarm delay (sec) alarm 678	D.OUT 5:6 Actual D.OUT config. text
4427	Alarm type for alarm 678	0=OFF, 1=A, 2=B, 3=C
4428	Alarm delay (sec) alarm 679	D.OUT 5:7 Actual D.OUT config. text
4429	Alarm type for alarm 679	0=OFF, 1=A, 2=B, 3=C
4430	Alarm delay (sec) alarm 680	D.OUT 5:8 Actual D.OUT config. text
4431	Alarm type for alarm 680	0=OFF, 1=A, 2=B, 3=C
4432	Alarm delay (sec) alarm 681	H.AI A.OUT 5:1 Actual source signal text
4433	Alarm type for alarm 681	0=OFF, 1=A, 2=B, 3=C
4434	Alarm delay (sec) alarm 682	L.AI A.OUT 5:1 Actual source signal text
4435	Alarm type for alarm 682	0=OFF, 1=A, 2=B, 3=C
4436	Alarm delay (sec) alarm 683	H.AI A.OUT 5:2 Actual source signal text
4437	Alarm type for alarm 683	0=OFF, 1=A, 2=B, 3=C
4438	Alarm delay (sec) alarm 684	L.AI A.OUT 5:2 Actual source signal text
4439	Alarm type for alarm 684	0=OFF, 1=A, 2=B, 3=C
4440	Alarm delay (sec) alarm 685	RESERVE Not used
4441	Alarm type for alarm 685	0=OFF, 1=A, 2=B, 3=C
4442	Alarm delay (sec) alarm 686	RESERVE Not used
4443	Alarm type for alarm 686	0=OFF, 1=A, 2=B, 3=C
4444	Alarm delay (sec) alarm 687	RESERVE Not used
4445	Alarm type for alarm 687	0=OFF, 1=A, 2=B, 3=C
4446	Alarm delay (sec) alarm 688	RESERVE Not used

Register no	Description	Scale factor / unit / note
4447	Alarm type for alarm 688	0=OFF, 1=A, 2=B, 3=C
4448	Alarm delay (sec) alarm 689	IO MODULE 6 Power failure
4449	Alarm type for alarm 689	0=OFF, 1=A, 2=B, 3=C
4450	Alarm delay (sec) alarm 690	IO MODULE 6 Low voltage 12V
4451	Alarm type for alarm 690	0=OFF, 1=A, 2=B, 3=C
4452	Alarm delay (sec) alarm 691	IO MODULE 6 IO module missing
4453	Alarm type for alarm 691	0=OFF, 1=A, 2=B, 3=C
4454	Alarm delay (sec) alarm 692	IO MODULE 6 A.IN board 1 missing
4455	Alarm type for alarm 692	0=OFF, 1=A, 2=B, 3=C
4456	Alarm delay (sec) alarm 693	IO MODULE 6 A.IN board 2 missing
4457	Alarm type for alarm 693	0=OFF, 1=A, 2=B, 3=C
4458	Alarm delay (sec) alarm 694	IO MODULE 6 A.IN board 3 missing
4459	Alarm type for alarm 694	0=OFF, 1=A, 2=B, 3=C
4460	Alarm delay (sec) alarm 695	IO MODULE 6 A.IN board 4 missing
4461	Alarm type for alarm 695	0=OFF, 1=A, 2=B, 3=C
4462	Alarm delay (sec) alarm 696	IO MODULE 6 Echo/Sens.err.A.IN 1
4463	Alarm type for alarm 696	0=OFF, 1=A, 2=B, 3=C
4464	Alarm delay (sec) alarm 697	IO MODULE 6 Echo/Sens.err.A.IN 2
4465	Alarm type for alarm 697	0=OFF, 1=A, 2=B, 3=C
4466	Alarm delay (sec) alarm 698	IO MODULE 6 Echo/Sens.err.A.IN 3
4467	Alarm type for alarm 698	0=OFF, 1=A, 2=B, 3=C
4468	Alarm delay (sec) alarm 699	IO MODULE 6 Echo/Sens.err.A.IN 4
4469	Alarm type for alarm 699	0=OFF, 1=A, 2=B, 3=C
4470	Alarm delay (sec) alarm 700	IO MODULE 6 Not used
4471	Alarm type for alarm 700	0=OFF, 1=A, 2=B, 3=C
4472	Alarm delay (sec) alarm 701	IO MODULE 6 Not used
4473	Alarm type for alarm 701	0=OFF, 1=A, 2=B, 3=C
4474	Alarm delay (sec) alarm 702	IO MODULE 6 Not used
4475	Alarm type for alarm 702	0=OFF, 1=A, 2=B, 3=C
4476	Alarm delay (sec) alarm 703	IO MODULE 6 Not used
4477	Alarm type for alarm 703	0=OFF, 1=A, 2=B, 3=C
4478	Alarm delay (sec) alarm 704	IO MODULE 6 Not used
4479	Alarm type for alarm 704	0=OFF, 1=A, 2=B, 3=C
4480	Alarm delay (sec) alarm 705	DIN 6:1 Actual D.IN config. text
4481	Alarm type for alarm 705	0=OFF, 1=A, 2=B, 3=C
4482	Alarm delay (sec) alarm 706	DIN 6:2 Actual D.IN config. text
4483	Alarm type for alarm 706	0=OFF, 1=A, 2=B, 3=C
4484	Alarm delay (sec) alarm 707	DIN 6:3 Actual D.IN config. text
4485	Alarm type for alarm 707	0=OFF, 1=A, 2=B, 3=C
4486	Alarm delay (sec) alarm 708	DIN 6:4 Actual D.IN config. text
4487	Alarm type for alarm 708	0=OFF, 1=A, 2=B, 3=C
4488	Alarm delay (sec) alarm 709	DIN 6:5 Actual D.IN config. text
4489	Alarm type for alarm 709	0=OFF, 1=A, 2=B, 3=C
4490	Alarm delay (sec) alarm 710	DIN 6:6 Actual D.IN config. text
4491	Alarm type for alarm 710	0=OFF, 1=A, 2=B, 3=C
4492	Alarm delay (sec) alarm 711	DIN 6:7 Actual D.IN config. text
4493	Alarm type for alarm 711	0=OFF, 1=A, 2=B, 3=C
4494	Alarm delay (sec) alarm 712	DIN 6:8 Actual D.IN config. text
4495	Alarm type for alarm 712	0=OFF, 1=A, 2=B, 3=C
4496	Alarm delay (sec) alarm 713	DIN 6:9 Actual D.IN config. text
4497	Alarm type for alarm 713	0=OFF, 1=A, 2=B, 3=C
4498	Alarm delay (sec) alarm 714	DIN 6:10 Actual D.IN config. text
4499	Alarm type for alarm 714	0=OFF, 1=A, 2=B, 3=C
4500	Alarm delay (sec) alarm 715	DIN 6:11 Actual D.IN config. text
4501	Alarm type for alarm 715	0=OFF, 1=A, 2=B, 3=C
4502	Alarm delay (sec) alarm 716	DIN 6:12 Actual D.IN config. text
4503	Alarm type for alarm 716	0=OFF, 1=A, 2=B, 3=C
4504	Alarm delay (sec) alarm 717	DIN 6:13 Actual D.IN config. text
4505	Alarm type for alarm 717	0=OFF, 1=A, 2=B, 3=C
4506	Alarm delay (sec) alarm 718	DIN 6:14 Actual D.IN config. text
4507	Alarm type for alarm 718	0=OFF, 1=A, 2=B, 3=C
4508	Alarm delay (sec) alarm 719	DIN 6:15 Actual D.IN config. text

Register no	Description	Scale factor / unit / note
4509	Alarm type for alarm 719	0=OFF, 1=A, 2=B, 3=C
4510	Alarm delay (sec) alarm 720	DIN 6:16 Actual D.IN config. text
4511	Alarm type for alarm 720	0=OFF, 1=A, 2=B, 3=C
4512	Alarm delay (sec) alarm 721	H.Al. A.IN 6:1 Actual A.IN config. text
4513	Alarm type for alarm 721	0=OFF, 1=A, 2=B, 3=C
4514	Alarm delay (sec) alarm 722	L.Al. A.IN 6:1 Actual A.IN config. text
4515	Alarm type for alarm 722	0=OFF, 1=A, 2=B, 3=C
4516	Alarm delay (sec) alarm 723	H.Al. A.IN 6:2 Actual A.IN config. text
4517	Alarm type for alarm 723	0=OFF, 1=A, 2=B, 3=C
4518	Alarm delay (sec) alarm 724	L.Al. A.IN 6:2 Actual A.IN config. text
4519	Alarm type for alarm 724	0=OFF, 1=A, 2=B, 3=C
4520	Alarm delay (sec) alarm 725	H.Al. A.IN 6:3 Actual A.IN config. text
4521	Alarm type for alarm 725	0=OFF, 1=A, 2=B, 3=C
4522	Alarm delay (sec) alarm 726	L.Al. A.IN 6:3 Actual A.IN config. text
4523	Alarm type for alarm 726	0=OFF, 1=A, 2=B, 3=C
4524	Alarm delay (sec) alarm 727	H.Al. A.IN 6:4 Actual A.IN config. text
4525	Alarm type for alarm 727	0=OFF, 1=A, 2=B, 3=C
4526	Alarm delay (sec) alarm 728	L.Al. A.IN 6:4 Actual A.IN config. text
4527	Alarm type for alarm 728	0=OFF, 1=A, 2=B, 3=C
4528	Alarm delay (sec) alarm 729	RESERVE Not used
4529	Alarm type for alarm 729	0=OFF, 1=A, 2=B, 3=C
4530	Alarm delay (sec) alarm 730	RESERVE Not used
4531	Alarm type for alarm 730	0=OFF, 1=A, 2=B, 3=C
4532	Alarm delay (sec) alarm 731	RESERVE Not used
4533	Alarm type for alarm 731	0=OFF, 1=A, 2=B, 3=C
4534	Alarm delay (sec) alarm 732	RESERVE Not used
4535	Alarm type for alarm 732	0=OFF, 1=A, 2=B, 3=C
4536	Alarm delay (sec) alarm 733	RESERVE Not used
4537	Alarm type for alarm 733	0=OFF, 1=A, 2=B, 3=C
4538	Alarm delay (sec) alarm 734	RESERVE Not used
4539	Alarm type for alarm 734	0=OFF, 1=A, 2=B, 3=C
4540	Alarm delay (sec) alarm 735	RESERVE Not used
4541	Alarm type for alarm 735	0=OFF, 1=A, 2=B, 3=C
4542	Alarm delay (sec) alarm 736	RESERVE Not used
4543	Alarm type for alarm 736	0=OFF, 1=A, 2=B, 3=C
4544	Alarm delay (sec) alarm 737	D.OUT 6:1 Actual D.OUT config. text
4545	Alarm type for alarm 737	0=OFF, 1=A, 2=B, 3=C
4546	Alarm delay (sec) alarm 738	D.OUT 6:2 Actual D.OUT config. text
4547	Alarm type for alarm 738	0=OFF, 1=A, 2=B, 3=C
4548	Alarm delay (sec) alarm 739	D.OUT 6:3 Actual D.OUT config. text
4549	Alarm type for alarm 739	0=OFF, 1=A, 2=B, 3=C
4550	Alarm delay (sec) alarm 740	D.OUT 6:4 Actual D.OUT config. text
4551	Alarm type for alarm 740	0=OFF, 1=A, 2=B, 3=C
4552	Alarm delay (sec) alarm 741	D.OUT 6:5 Actual D.OUT config. text
4553	Alarm type for alarm 741	0=OFF, 1=A, 2=B, 3=C
4554	Alarm delay (sec) alarm 742	D.OUT 6:6 Actual D.OUT config. text
4555	Alarm type for alarm 742	0=OFF, 1=A, 2=B, 3=C
4556	Alarm delay (sec) alarm 743	D.OUT 6:7 Actual D.OUT config. text
4557	Alarm type for alarm 743	0=OFF, 1=A, 2=B, 3=C
4558	Alarm delay (sec) alarm 744	D.OUT 6:8 Actual D.OUT config. text
4559	Alarm type for alarm 744	0=OFF, 1=A, 2=B, 3=C
4560	Alarm delay (sec) alarm 745	H.Al A.OUT 6:1 Actual source signal text
4561	Alarm type for alarm 745	0=OFF, 1=A, 2=B, 3=C
4562	Alarm delay (sec) alarm 746	L.Al A.OUT 6:1 Actual source signal text
4563	Alarm type for alarm 746	0=OFF, 1=A, 2=B, 3=C
4564	Alarm delay (sec) alarm 747	H.Al A.OUT 6:2 Actual source signal text
4565	Alarm type for alarm 747	0=OFF, 1=A, 2=B, 3=C
4566	Alarm delay (sec) alarm 748	L.Al A.OUT 6:2 Actual source signal text
4567	Alarm type for alarm 748	0=OFF, 1=A, 2=B, 3=C
4568	Alarm delay (sec) alarm 749	RESERVE Not used
4569	Alarm type for alarm 749	0=OFF, 1=A, 2=B, 3=C
4570	Alarm delay (sec) alarm 750	RESERVE Not used

Register no	Description	Scale factor / unit / note
4571	Alarm type for alarm 750	0=OFF, 1=A, 2=B, 3=C
4572	Alarm delay (sec) alarm 751	RESERVE Not used
4573	Alarm type for alarm 751	0=OFF, 1=A, 2=B, 3=C
4574	Alarm delay (sec) alarm 752	RESERVE Not used
4575	Alarm type for alarm 752	0=OFF, 1=A, 2=B, 3=C
4576	Alarm delay (sec) alarm 753	IO MODULE 7 Power failure
4577	Alarm type for alarm 753	0=OFF, 1=A, 2=B, 3=C
4578	Alarm delay (sec) alarm 754	IO MODULE 7 Low voltage 12V
4579	Alarm type for alarm 754	0=OFF, 1=A, 2=B, 3=C
4580	Alarm delay (sec) alarm 755	IO MODULE 7 IO module missing
4581	Alarm type for alarm 755	0=OFF, 1=A, 2=B, 3=C
4582	Alarm delay (sec) alarm 756	IO MODULE 7 A.IN board 1 missing
4583	Alarm type for alarm 756	0=OFF, 1=A, 2=B, 3=C
4584	Alarm delay (sec) alarm 757	IO MODULE 7 A.IN board 2 missing
4585	Alarm type for alarm 757	0=OFF, 1=A, 2=B, 3=C
4586	Alarm delay (sec) alarm 758	IO MODULE 7 A.IN board 3 missing
4587	Alarm type for alarm 758	0=OFF, 1=A, 2=B, 3=C
4588	Alarm delay (sec) alarm 759	IO MODULE 7 A.IN board 4 missing
4589	Alarm type for alarm 759	0=OFF, 1=A, 2=B, 3=C
4590	Alarm delay (sec) alarm 760	IO MODULE 7 Echo/Sens.err.A.IN 1
4591	Alarm type for alarm 760	0=OFF, 1=A, 2=B, 3=C
4592	Alarm delay (sec) alarm 761	IO MODULE 7 Echo/Sens.err.A.IN 2
4593	Alarm type for alarm 761	0=OFF, 1=A, 2=B, 3=C
4594	Alarm delay (sec) alarm 762	IO MODULE 7 Echo/Sens.err.A.IN 3
4595	Alarm type for alarm 762	0=OFF, 1=A, 2=B, 3=C
4596	Alarm delay (sec) alarm 763	IO MODULE 7 Echo/Sens.err.A.IN 4
4597	Alarm type for alarm 763	0=OFF, 1=A, 2=B, 3=C
4598	Alarm delay (sec) alarm 764	IO MODULE 7 Not used
4599	Alarm type for alarm 764	0=OFF, 1=A, 2=B, 3=C
4600	Alarm delay (sec) alarm 765	IO MODULE 7 Not used
4601	Alarm type for alarm 765	0=OFF, 1=A, 2=B, 3=C
4602	Alarm delay (sec) alarm 766	IO MODULE 7 Not used
4603	Alarm type for alarm 766	0=OFF, 1=A, 2=B, 3=C
4604	Alarm delay (sec) alarm 767	IO MODULE 7 Not used
4605	Alarm type for alarm 767	0=OFF, 1=A, 2=B, 3=C
4606	Alarm delay (sec) alarm 768	IO MODULE 7 Not used
4607	Alarm type for alarm 768	0=OFF, 1=A, 2=B, 3=C
4608	Alarm delay (sec) alarm 769	DIN 7:1 Actual D.IN config. text
4609	Alarm type for alarm 769	0=OFF, 1=A, 2=B, 3=C
4610	Alarm delay (sec) alarm 770	DIN 7:2 Actual D.IN config. text
4611	Alarm type for alarm 770	0=OFF, 1=A, 2=B, 3=C
4612	Alarm delay (sec) alarm 771	DIN 7:3 Actual D.IN config. text
4613	Alarm type for alarm 771	0=OFF, 1=A, 2=B, 3=C
4614	Alarm delay (sec) alarm 772	DIN 7:4 Actual D.IN config. text
4615	Alarm type for alarm 772	0=OFF, 1=A, 2=B, 3=C
4616	Alarm delay (sec) alarm 773	DIN 7:5 Actual D.IN config. text
4617	Alarm type for alarm 773	0=OFF, 1=A, 2=B, 3=C
4618	Alarm delay (sec) alarm 774	DIN 7:6 Actual D.IN config. text
4619	Alarm type for alarm 774	0=OFF, 1=A, 2=B, 3=C
4620	Alarm delay (sec) alarm 775	DIN 7:7 Actual D.IN config. text
4621	Alarm type for alarm 775	0=OFF, 1=A, 2=B, 3=C
4622	Alarm delay (sec) alarm 776	DIN 7:8 Actual D.IN config. text
4623	Alarm type for alarm 776	0=OFF, 1=A, 2=B, 3=C
4624	Alarm delay (sec) alarm 777	DIN 7:9 Actual D.IN config. text
4625	Alarm type for alarm 777	0=OFF, 1=A, 2=B, 3=C
4626	Alarm delay (sec) alarm 778	DIN 7:10 Actual D.IN config. text
4627	Alarm type for alarm 778	0=OFF, 1=A, 2=B, 3=C
4628	Alarm delay (sec) alarm 779	DIN 7:11 Actual D.IN config. text
4629	Alarm type for alarm 779	0=OFF, 1=A, 2=B, 3=C
4630	Alarm delay (sec) alarm 780	DIN 7:12 Actual D.IN config. text
4631	Alarm type for alarm 780	0=OFF, 1=A, 2=B, 3=C
4632	Alarm delay (sec) alarm 781	DIN 7:13 Actual D.IN config. text

Register no	Description	Scale factor / unit / note
4633	Alarm type for alarm 781	0=OFF, 1=A, 2=B, 3=C
4634	Alarm delay (sec) alarm 782	DIN 7:14 Actual D.IN config. text
4635	Alarm type for alarm 782	0=OFF, 1=A, 2=B, 3=C
4636	Alarm delay (sec) alarm 783	DIN 7:15 Actual D.IN config. text
4637	Alarm type for alarm 783	0=OFF, 1=A, 2=B, 3=C
4638	Alarm delay (sec) alarm 784	DIN 7:16 Actual D.IN config. text
4639	Alarm type for alarm 784	0=OFF, 1=A, 2=B, 3=C
4640	Alarm delay (sec) alarm 785	H.AI. A.IN 7:1 Actual A.IN config. text
4641	Alarm type for alarm 785	0=OFF, 1=A, 2=B, 3=C
4642	Alarm delay (sec) alarm 786	L.AI. A.IN 7:1 Actual A.IN config. text
4643	Alarm type for alarm 786	0=OFF, 1=A, 2=B, 3=C
4644	Alarm delay (sec) alarm 787	H.AI. A.IN 7:2 Actual A.IN config. text
4645	Alarm type for alarm 787	0=OFF, 1=A, 2=B, 3=C
4646	Alarm delay (sec) alarm 788	L.AI. A.IN 7:2 Actual A.IN config. text
4647	Alarm type for alarm 788	0=OFF, 1=A, 2=B, 3=C
4648	Alarm delay (sec) alarm 789	H.AI. A.IN 7:3 Actual A.IN config. text
4649	Alarm type for alarm 789	0=OFF, 1=A, 2=B, 3=C
4650	Alarm delay (sec) alarm 790	L.AI. A.IN 7:3 Actual A.IN config. text
4651	Alarm type for alarm 790	0=OFF, 1=A, 2=B, 3=C
4652	Alarm delay (sec) alarm 791	H.AI. A.IN 7:4 Actual A.IN config. text
4653	Alarm type for alarm 791	0=OFF, 1=A, 2=B, 3=C
4654	Alarm delay (sec) alarm 792	L.AI. A.IN 7:4 Actual A.IN config. text
4655	Alarm type for alarm 792	0=OFF, 1=A, 2=B, 3=C
4656	Alarm delay (sec) alarm 793	RESERVE Not used
4657	Alarm type for alarm 793	0=OFF, 1=A, 2=B, 3=C
4658	Alarm delay (sec) alarm 794	RESERVE Not used
4659	Alarm type for alarm 794	0=OFF, 1=A, 2=B, 3=C
4660	Alarm delay (sec) alarm 795	RESERVE Not used
4661	Alarm type for alarm 795	0=OFF, 1=A, 2=B, 3=C
4662	Alarm delay (sec) alarm 796	RESERVE Not used
4663	Alarm type for alarm 796	0=OFF, 1=A, 2=B, 3=C
4664	Alarm delay (sec) alarm 797	RESERVE Not used
4665	Alarm type for alarm 797	0=OFF, 1=A, 2=B, 3=C
4666	Alarm delay (sec) alarm 798	RESERVE Not used
4667	Alarm type for alarm 798	0=OFF, 1=A, 2=B, 3=C
4668	Alarm delay (sec) alarm 799	RESERVE Not used
4669	Alarm type for alarm 799	0=OFF, 1=A, 2=B, 3=C
4670	Alarm delay (sec) alarm 800	RESERVE Not used
4671	Alarm type for alarm 800	0=OFF, 1=A, 2=B, 3=C
4672	Alarm delay (sec) alarm 801	D.OUT 7:1 Actual D.OUT config. text
4673	Alarm type for alarm 801	0=OFF, 1=A, 2=B, 3=C
4674	Alarm delay (sec) alarm 802	D.OUT 7:2 Actual D.OUT config. text
4675	Alarm type for alarm 802	0=OFF, 1=A, 2=B, 3=C
4676	Alarm delay (sec) alarm 803	D.OUT 7:3 Actual D.OUT config. text
4677	Alarm type for alarm 803	0=OFF, 1=A, 2=B, 3=C
4678	Alarm delay (sec) alarm 804	D.OUT 7:4 Actual D.OUT config. text
4679	Alarm type for alarm 804	0=OFF, 1=A, 2=B, 3=C
4680	Alarm delay (sec) alarm 805	D.OUT 7:5 Actual D.OUT config. text
4681	Alarm type for alarm 805	0=OFF, 1=A, 2=B, 3=C
4682	Alarm delay (sec) alarm 806	D.OUT 7:6 Actual D.OUT config. text
4683	Alarm type for alarm 806	0=OFF, 1=A, 2=B, 3=C
4684	Alarm delay (sec) alarm 807	D.OUT 7:7 Actual D.OUT config. text
4685	Alarm type for alarm 807	0=OFF, 1=A, 2=B, 3=C
4686	Alarm delay (sec) alarm 808	D.OUT 7:8 Actual D.OUT config. text
4687	Alarm type for alarm 808	0=OFF, 1=A, 2=B, 3=C
4688	Alarm delay (sec) alarm 809	H.AI A.OUT 7:1 Actual source signal text
4689	Alarm type for alarm 809	0=OFF, 1=A, 2=B, 3=C
4690	Alarm delay (sec) alarm 810	L.AI A.OUT 7:1 Actual source signal text
4691	Alarm type for alarm 810	0=OFF, 1=A, 2=B, 3=C
4692	Alarm delay (sec) alarm 811	H.AI A.OUT 7:2 Actual source signal text
4693	Alarm type for alarm 811	0=OFF, 1=A, 2=B, 3=C
4694	Alarm delay (sec) alarm 812	L.AI A.OUT 7:2 Actual source signal text

Register no	Description	Scale factor / unit / note
4695	Alarm type for alarm 812	0=OFF, 1=A, 2=B, 3=C
4696	Alarm delay (sec) alarm 813	RESERVE Not used
4697	Alarm type for alarm 813	0=OFF, 1=A, 2=B, 3=C
4698	Alarm delay (sec) alarm 814	RESERVE Not used
4699	Alarm type for alarm 814	0=OFF, 1=A, 2=B, 3=C
4700	Alarm delay (sec) alarm 815	RESERVE Not used
4701	Alarm type for alarm 815	0=OFF, 1=A, 2=B, 3=C
4702	Alarm delay (sec) alarm 816	RESERVE Not used
4703	Alarm type for alarm 816	0=OFF, 1=A, 2=B, 3=C
4704	Alarm delay (sec) alarm 817	IO MODULE 8 Power failure
4705	Alarm type for alarm 817	0=OFF, 1=A, 2=B, 3=C
4706	Alarm delay (sec) alarm 818	IO MODULE 8 Low voltage 12V
4707	Alarm type for alarm 818	0=OFF, 1=A, 2=B, 3=C
4708	Alarm delay (sec) alarm 819	IO MODULE 8 IO module missing
4709	Alarm type for alarm 819	0=OFF, 1=A, 2=B, 3=C
4710	Alarm delay (sec) alarm 820	IO MODULE 8 A.IN board 1 missing
4711	Alarm type for alarm 820	0=OFF, 1=A, 2=B, 3=C
4712	Alarm delay (sec) alarm 821	IO MODULE 8 A.IN board 2 missing
4713	Alarm type for alarm 821	0=OFF, 1=A, 2=B, 3=C
4714	Alarm delay (sec) alarm 822	IO MODULE 8 A.IN board 3 missing
4715	Alarm type for alarm 822	0=OFF, 1=A, 2=B, 3=C
4716	Alarm delay (sec) alarm 823	IO MODULE 8 A.IN board 4 missing
4717	Alarm type for alarm 823	0=OFF, 1=A, 2=B, 3=C
4718	Alarm delay (sec) alarm 824	IO MODULE 8 Echo/Sens.err.A.IN 1
4719	Alarm type for alarm 824	0=OFF, 1=A, 2=B, 3=C
4720	Alarm delay (sec) alarm 825	IO MODULE 8 Echo/Sens.err.A.IN 2
4721	Alarm type for alarm 825	0=OFF, 1=A, 2=B, 3=C
4722	Alarm delay (sec) alarm 826	IO MODULE 8 Echo/Sens.err.A.IN 3
4723	Alarm type for alarm 826	0=OFF, 1=A, 2=B, 3=C
4724	Alarm delay (sec) alarm 827	IO MODULE 8 Echo/Sens.err.A.IN 4
4725	Alarm type for alarm 827	0=OFF, 1=A, 2=B, 3=C
4726	Alarm delay (sec) alarm 828	IO MODULE 8 Not used
4727	Alarm type for alarm 828	0=OFF, 1=A, 2=B, 3=C
4728	Alarm delay (sec) alarm 829	IO MODULE 8 Not used
4729	Alarm type for alarm 829	0=OFF, 1=A, 2=B, 3=C
4730	Alarm delay (sec) alarm 830	IO MODULE 8 Not used
4731	Alarm type for alarm 830	0=OFF, 1=A, 2=B, 3=C
4732	Alarm delay (sec) alarm 831	IO MODULE 8 Not used
4733	Alarm type for alarm 831	0=OFF, 1=A, 2=B, 3=C
4734	Alarm delay (sec) alarm 832	IO MODULE 8 Not used
4735	Alarm type for alarm 832	0=OFF, 1=A, 2=B, 3=C
4736	Alarm delay (sec) alarm 833	DIN 8:1 Actual D.IN config. text
4737	Alarm type for alarm 833	0=OFF, 1=A, 2=B, 3=C
4738	Alarm delay (sec) alarm 834	DIN 8:2 Actual D.IN config. text
4739	Alarm type for alarm 834	0=OFF, 1=A, 2=B, 3=C
4740	Alarm delay (sec) alarm 835	DIN 8:3 Actual D.IN config. text
4741	Alarm type for alarm 835	0=OFF, 1=A, 2=B, 3=C
4742	Alarm delay (sec) alarm 836	DIN 8:4 Actual D.IN config. text
4743	Alarm type for alarm 836	0=OFF, 1=A, 2=B, 3=C
4744	Alarm delay (sec) alarm 837	DIN 8:5 Actual D.IN config. text
4745	Alarm type for alarm 837	0=OFF, 1=A, 2=B, 3=C
4746	Alarm delay (sec) alarm 838	DIN 8:6 Actual D.IN config. text
4747	Alarm type for alarm 838	0=OFF, 1=A, 2=B, 3=C
4748	Alarm delay (sec) alarm 839	DIN 8:7 Actual D.IN config. text
4749	Alarm type for alarm 839	0=OFF, 1=A, 2=B, 3=C
4750	Alarm delay (sec) alarm 840	DIN 8:8 Actual D.IN config. text
4751	Alarm type for alarm 840	0=OFF, 1=A, 2=B, 3=C
4752	Alarm delay (sec) alarm 841	DIN 8:9 Actual D.IN config. text
4753	Alarm type for alarm 841	0=OFF, 1=A, 2=B, 3=C
4754	Alarm delay (sec) alarm 842	DIN 8:10 Actual D.IN config. text
4755	Alarm type for alarm 842	0=OFF, 1=A, 2=B, 3=C
4756	Alarm delay (sec) alarm 843	DIN 8:11 Actual D.IN config. text

Register no	Description	Scale factor / unit / note
4757	Alarm type for alarm 843	0=OFF, 1=A, 2=B, 3=C
4758	Alarm delay (sec) alarm 844	DIN 8:12 Actual D.IN config. text
4759	Alarm type for alarm 844	0=OFF, 1=A, 2=B, 3=C
4760	Alarm delay (sec) alarm 845	DIN 8:13 Actual D.IN config. text
4761	Alarm type for alarm 845	0=OFF, 1=A, 2=B, 3=C
4762	Alarm delay (sec) alarm 846	DIN 8:14 Actual D.IN config. text
4763	Alarm type for alarm 846	0=OFF, 1=A, 2=B, 3=C
4764	Alarm delay (sec) alarm 847	DIN 8:15 Actual D.IN config. text
4765	Alarm type for alarm 847	0=OFF, 1=A, 2=B, 3=C
4766	Alarm delay (sec) alarm 848	DIN 8:16 Actual D.IN config. text
4767	Alarm type for alarm 848	0=OFF, 1=A, 2=B, 3=C
4768	Alarm delay (sec) alarm 849	H.AI. A.IN 8:1 Actual A.IN config. text
4769	Alarm type for alarm 849	0=OFF, 1=A, 2=B, 3=C
4770	Alarm delay (sec) alarm 850	L.AI. A.IN 8:1 Actual A.IN config. text
4771	Alarm type for alarm 850	0=OFF, 1=A, 2=B, 3=C
4772	Alarm delay (sec) alarm 851	H.AI. A.IN 8:2 Actual A.IN config. text
4773	Alarm type for alarm 851	0=OFF, 1=A, 2=B, 3=C
4774	Alarm delay (sec) alarm 852	L.AI. A.IN 8:2 Actual A.IN config. text
4775	Alarm type for alarm 852	0=OFF, 1=A, 2=B, 3=C
4776	Alarm delay (sec) alarm 853	H.AI. A.IN 8:3 Actual A.IN config. text
4777	Alarm type for alarm 853	0=OFF, 1=A, 2=B, 3=C
4778	Alarm delay (sec) alarm 854	L.AI. A.IN 8:3 Actual A.IN config. text
4779	Alarm type for alarm 854	0=OFF, 1=A, 2=B, 3=C
4780	Alarm delay (sec) alarm 855	H.AI. A.IN 8:4 Actual A.IN config. text
4781	Alarm type for alarm 855	0=OFF, 1=A, 2=B, 3=C
4782	Alarm delay (sec) alarm 856	L.AI. A.IN 8:4 Actual A.IN config. text
4783	Alarm type for alarm 856	0=OFF, 1=A, 2=B, 3=C
4784	Alarm delay (sec) alarm 857	RESERVE Not used
4785	Alarm type for alarm 857	0=OFF, 1=A, 2=B, 3=C
4786	Alarm delay (sec) alarm 858	RESERVE Not used
4787	Alarm type for alarm 858	0=OFF, 1=A, 2=B, 3=C
4788	Alarm delay (sec) alarm 859	RESERVE Not used
4789	Alarm type for alarm 859	0=OFF, 1=A, 2=B, 3=C
4790	Alarm delay (sec) alarm 860	RESERVE Not used
4791	Alarm type for alarm 860	0=OFF, 1=A, 2=B, 3=C
4792	Alarm delay (sec) alarm 861	RESERVE Not used
4793	Alarm type for alarm 861	0=OFF, 1=A, 2=B, 3=C
4794	Alarm delay (sec) alarm 862	RESERVE Not used
4795	Alarm type for alarm 862	0=OFF, 1=A, 2=B, 3=C
4796	Alarm delay (sec) alarm 863	RESERVE Not used
4797	Alarm type for alarm 863	0=OFF, 1=A, 2=B, 3=C
4798	Alarm delay (sec) alarm 864	RESERVE Not used
4799	Alarm type for alarm 864	0=OFF, 1=A, 2=B, 3=C
4800	Alarm delay (sec) alarm 865	D.OUT 8:1 Actual D.OUT config. text
4801	Alarm type for alarm 865	0=OFF, 1=A, 2=B, 3=C
4802	Alarm delay (sec) alarm 866	D.OUT 8:2 Actual D.OUT config. text
4803	Alarm type for alarm 866	0=OFF, 1=A, 2=B, 3=C
4804	Alarm delay (sec) alarm 867	D.OUT 8:3 Actual D.OUT config. text
4805	Alarm type for alarm 867	0=OFF, 1=A, 2=B, 3=C
4806	Alarm delay (sec) alarm 868	D.OUT 8:4 Actual D.OUT config. text
4807	Alarm type for alarm 868	0=OFF, 1=A, 2=B, 3=C
4808	Alarm delay (sec) alarm 869	D.OUT 8:5 Actual D.OUT config. text
4809	Alarm type for alarm 869	0=OFF, 1=A, 2=B, 3=C
4810	Alarm delay (sec) alarm 870	D.OUT 8:6 Actual D.OUT config. text
4811	Alarm type for alarm 870	0=OFF, 1=A, 2=B, 3=C
4812	Alarm delay (sec) alarm 871	D.OUT 8:7 Actual D.OUT config. text
4813	Alarm type for alarm 871	0=OFF, 1=A, 2=B, 3=C
4814	Alarm delay (sec) alarm 872	D.OUT 8:8 Actual D.OUT config. text
4815	Alarm type for alarm 872	0=OFF, 1=A, 2=B, 3=C
4816	Alarm delay (sec) alarm 873	H.AI A.OUT 8:1 Actual source signal text
4817	Alarm type for alarm 873	0=OFF, 1=A, 2=B, 3=C
4818	Alarm delay (sec) alarm 874	L.AI A.OUT 8:1 Actual source signal text

Register no	Description	Scale factor / unit / note
4819	Alarm type for alarm 874	0=OFF, 1=A, 2=B, 3=C
4820	Alarm delay (sec) alarm 875	H.AI A.OUT 8:2 Actual source signal text
4821	Alarm type for alarm 875	0=OFF, 1=A, 2=B, 3=C
4822	Alarm delay (sec) alarm 876	L.AI A.OUT 8:2 Actual source signal text
4823	Alarm type for alarm 876	0=OFF, 1=A, 2=B, 3=C
4824	Alarm delay (sec) alarm 877	RESERVE Not used
4825	Alarm type for alarm 877	0=OFF, 1=A, 2=B, 3=C
4826	Alarm delay (sec) alarm 878	RESERVE Not used
4827	Alarm type for alarm 878	0=OFF, 1=A, 2=B, 3=C
4828	Alarm delay (sec) alarm 879	RESERVE Not used
4829	Alarm type for alarm 879	0=OFF, 1=A, 2=B, 3=C
4830	Alarm delay (sec) alarm 880	RESERVE Not used
4831	Alarm type for alarm 880	0=OFF, 1=A, 2=B, 3=C
4832	Alarm delay (sec) alarm 881	RESERVE
4833	Alarm type for alarm 881	0=OFF, 1=A, 2=B, 3=C
4834	Alarm delay (sec) alarm 882	RESERVE
4835	Alarm type for alarm 882	0=OFF, 1=A, 2=B, 3=C
4836	Alarm delay (sec) alarm 883	RESERVE
4837	Alarm type for alarm 883	0=OFF, 1=A, 2=B, 3=C
4838	Alarm delay (sec) alarm 884	RESERVE
4839	Alarm type for alarm 884	0=OFF, 1=A, 2=B, 3=C
4840	Alarm delay (sec) alarm 885	RESERVE
4841	Alarm type for alarm 885	0=OFF, 1=A, 2=B, 3=C
4842	Alarm delay (sec) alarm 886	RESERVE
4843	Alarm type for alarm 886	0=OFF, 1=A, 2=B, 3=C
4844	Alarm delay (sec) alarm 887	RESERVE
4845	Alarm type for alarm 887	0=OFF, 1=A, 2=B, 3=C
4846	Alarm delay (sec) alarm 888	RESERVE
4847	Alarm type for alarm 888	0=OFF, 1=A, 2=B, 3=C
4848	Alarm delay (sec) alarm 889	RESERVE
4849	Alarm type for alarm 889	0=OFF, 1=A, 2=B, 3=C
4850	Alarm delay (sec) alarm 890	RESERVE
4851	Alarm type for alarm 890	0=OFF, 1=A, 2=B, 3=C
4852	Alarm delay (sec) alarm 891	RESERVE
4853	Alarm type for alarm 891	0=OFF, 1=A, 2=B, 3=C
4854	Alarm delay (sec) alarm 892	RESERVE
4855	Alarm type for alarm 892	0=OFF, 1=A, 2=B, 3=C
4856	Alarm delay (sec) alarm 893	RESERVE
4857	Alarm type for alarm 893	0=OFF, 1=A, 2=B, 3=C
4858	Alarm delay (sec) alarm 894	RESERVE
4859	Alarm type for alarm 894	0=OFF, 1=A, 2=B, 3=C
4860	Alarm delay (sec) alarm 895	RESERVE
4861	Alarm type for alarm 895	0=OFF, 1=A, 2=B, 3=C
4862	Alarm delay (sec) alarm 896	RESERVE
4863	Alarm type for alarm 896	0=OFF, 1=A, 2=B, 3=C
4864	Alarm delay (sec) alarm 897	RESERVE
4865	Alarm type for alarm 897	0=OFF, 1=A, 2=B, 3=C
4866	Alarm delay (sec) alarm 898	RESERVE
4867	Alarm type for alarm 898	0=OFF, 1=A, 2=B, 3=C
4868	Alarm delay (sec) alarm 899	RESERVE
4869	Alarm type for alarm 899	0=OFF, 1=A, 2=B, 3=C
4870	Alarm delay (sec) alarm 900	RESERVE
4871	Alarm type for alarm 900	0=OFF, 1=A, 2=B, 3=C
4872	Alarm delay (sec) alarm 901	RESERVE
4873	Alarm type for alarm 901	0=OFF, 1=A, 2=B, 3=C
4874	Alarm delay (sec) alarm 902	RESERVE
4875	Alarm type for alarm 902	0=OFF, 1=A, 2=B, 3=C
4876	Alarm delay (sec) alarm 903	RESERVE
4877	Alarm type for alarm 903	0=OFF, 1=A, 2=B, 3=C
4878	Alarm delay (sec) alarm 904	RESERVE
4879	Alarm type for alarm 904	0=OFF, 1=A, 2=B, 3=C
4880	Alarm delay (sec) alarm 905	RESERVE

Register no	Description	Scale factor / unit / note
4881	Alarm type for alarm 905	0=OFF, 1=A, 2=B, 3=C
4882	Alarm delay (sec) alarm 906	RESERVE
4883	Alarm type for alarm 906	0=OFF, 1=A, 2=B, 3=C
4884	Alarm delay (sec) alarm 907	RESERVE
4885	Alarm type for alarm 907	0=OFF, 1=A, 2=B, 3=C
4886	Alarm delay (sec) alarm 908	RESERVE
4887	Alarm type for alarm 908	0=OFF, 1=A, 2=B, 3=C
4888	Alarm delay (sec) alarm 909	RESERVE
4889	Alarm type for alarm 909	0=OFF, 1=A, 2=B, 3=C
4890	Alarm delay (sec) alarm 910	RESERVE
4891	Alarm type for alarm 910	0=OFF, 1=A, 2=B, 3=C
4892	Alarm delay (sec) alarm 911	RESERVE
4893	Alarm type for alarm 911	0=OFF, 1=A, 2=B, 3=C
4894	Alarm delay (sec) alarm 912	RESERVE
4895	Alarm type for alarm 912	0=OFF, 1=A, 2=B, 3=C
4896	Alarm delay (sec) alarm 913	RESERVE
4897	Alarm type for alarm 913	0=OFF, 1=A, 2=B, 3=C
4898	Alarm delay (sec) alarm 914	RESERVE
4899	Alarm type for alarm 914	0=OFF, 1=A, 2=B, 3=C
4900	Alarm delay (sec) alarm 915	RESERVE
4901	Alarm type for alarm 915	0=OFF, 1=A, 2=B, 3=C
4902	Alarm delay (sec) alarm 916	RESERVE
4903	Alarm type for alarm 916	0=OFF, 1=A, 2=B, 3=C
4904	Alarm delay (sec) alarm 917	RESERVE
4905	Alarm type for alarm 917	0=OFF, 1=A, 2=B, 3=C
4906	Alarm delay (sec) alarm 918	RESERVE
4907	Alarm type for alarm 918	0=OFF, 1=A, 2=B, 3=C
4908	Alarm delay (sec) alarm 919	RESERVE
4909	Alarm type for alarm 919	0=OFF, 1=A, 2=B, 3=C
4910	Alarm delay (sec) alarm 920	RESERVE
4911	Alarm type for alarm 920	0=OFF, 1=A, 2=B, 3=C
4912	Alarm delay (sec) alarm 921	RESERVE
4913	Alarm type for alarm 921	0=OFF, 1=A, 2=B, 3=C
4914	Alarm delay (sec) alarm 922	RESERVE
4915	Alarm type for alarm 922	0=OFF, 1=A, 2=B, 3=C
4916	Alarm delay (sec) alarm 923	RESERVE
4917	Alarm type for alarm 923	0=OFF, 1=A, 2=B, 3=C
4918	Alarm delay (sec) alarm 924	RESERVE
4919	Alarm type for alarm 924	0=OFF, 1=A, 2=B, 3=C
4920	Alarm delay (sec) alarm 925	RESERVE
4921	Alarm type for alarm 925	0=OFF, 1=A, 2=B, 3=C
4922	Alarm delay (sec) alarm 926	RESERVE
4923	Alarm type for alarm 926	0=OFF, 1=A, 2=B, 3=C
4924	Alarm delay (sec) alarm 927	RESERVE
4925	Alarm type for alarm 927	0=OFF, 1=A, 2=B, 3=C
4926	Alarm delay (sec) alarm 928	RESERVE
4927	Alarm type for alarm 928	0=OFF, 1=A, 2=B, 3=C
4928	Alarm delay (sec) alarm 929	RESERVE
4929	Alarm type for alarm 929	0=OFF, 1=A, 2=B, 3=C
4930	Alarm delay (sec) alarm 930	RESERVE
4931	Alarm type for alarm 930	0=OFF, 1=A, 2=B, 3=C
4932	Alarm delay (sec) alarm 931	RESERVE
4933	Alarm type for alarm 931	0=OFF, 1=A, 2=B, 3=C
4934	Alarm delay (sec) alarm 932	RESERVE
4935	Alarm type for alarm 932	0=OFF, 1=A, 2=B, 3=C
4936	Alarm delay (sec) alarm 933	RESERVE
4937	Alarm type for alarm 933	0=OFF, 1=A, 2=B, 3=C
4938	Alarm delay (sec) alarm 934	RESERVE
4939	Alarm type for alarm 934	0=OFF, 1=A, 2=B, 3=C
4940	Alarm delay (sec) alarm 935	RESERVE
4941	Alarm type for alarm 935	0=OFF, 1=A, 2=B, 3=C
4942	Alarm delay (sec) alarm 936	RESERVE

Register no	Description	Scale factor / unit / note
4943	Alarm type for alarm 936	0=OFF, 1=A, 2=B, 3=C
4944	Alarm delay (sec) alarm 937	RESERVE
4945	Alarm type for alarm 937	0=OFF, 1=A, 2=B, 3=C
4946	Alarm delay (sec) alarm 938	RESERVE
4947	Alarm type for alarm 938	0=OFF, 1=A, 2=B, 3=C
4948	Alarm delay (sec) alarm 939	RESERVE
4949	Alarm type for alarm 939	0=OFF, 1=A, 2=B, 3=C
4950	Alarm delay (sec) alarm 940	RESERVE
4951	Alarm type for alarm 940	0=OFF, 1=A, 2=B, 3=C
4952	Alarm delay (sec) alarm 941	RESERVE
4953	Alarm type for alarm 941	0=OFF, 1=A, 2=B, 3=C
4954	Alarm delay (sec) alarm 942	RESERVE
4955	Alarm type for alarm 942	0=OFF, 1=A, 2=B, 3=C
4956	Alarm delay (sec) alarm 943	RESERVE
4957	Alarm type for alarm 943	0=OFF, 1=A, 2=B, 3=C
4958	Alarm delay (sec) alarm 944	RESERVE
4959	Alarm type for alarm 944	0=OFF, 1=A, 2=B, 3=C
4960	Alarm delay (sec) alarm 945	RESERVE
4961	Alarm type for alarm 945	0=OFF, 1=A, 2=B, 3=C
4962	Alarm delay (sec) alarm 946	RESERVE
4963	Alarm type for alarm 946	0=OFF, 1=A, 2=B, 3=C
4964	Alarm delay (sec) alarm 947	RESERVE
4965	Alarm type for alarm 947	0=OFF, 1=A, 2=B, 3=C
4966	Alarm delay (sec) alarm 948	RESERVE
4967	Alarm type for alarm 948	0=OFF, 1=A, 2=B, 3=C
4968	Alarm delay (sec) alarm 949	RESERVE
4969	Alarm type for alarm 949	0=OFF, 1=A, 2=B, 3=C
4970	Alarm delay (sec) alarm 950	RESERVE
4971	Alarm type for alarm 950	0=OFF, 1=A, 2=B, 3=C
4972	Alarm delay (sec) alarm 951	RESERVE
4973	Alarm type for alarm 951	0=OFF, 1=A, 2=B, 3=C
4974	Alarm delay (sec) alarm 952	RESERVE
4975	Alarm type for alarm 952	0=OFF, 1=A, 2=B, 3=C
4976	Alarm delay (sec) alarm 953	RESERVE
4977	Alarm type for alarm 953	0=OFF, 1=A, 2=B, 3=C
4978	Alarm delay (sec) alarm 954	RESERVE
4979	Alarm type for alarm 954	0=OFF, 1=A, 2=B, 3=C
4980	Alarm delay (sec) alarm 955	RESERVE
4981	Alarm type for alarm 955	0=OFF, 1=A, 2=B, 3=C
4982	Alarm delay (sec) alarm 956	RESERVE
4983	Alarm type for alarm 956	0=OFF, 1=A, 2=B, 3=C
4984	Alarm delay (sec) alarm 957	RESERVE
4985	Alarm type for alarm 957	0=OFF, 1=A, 2=B, 3=C
4986	Alarm delay (sec) alarm 958	RESERVE
4987	Alarm type for alarm 958	0=OFF, 1=A, 2=B, 3=C
4988	Alarm delay (sec) alarm 959	RESERVE
4989	Alarm type for alarm 959	0=OFF, 1=A, 2=B, 3=C
4990	Alarm delay (sec) alarm 960	RESERVE
4991	Alarm type for alarm 960	0=OFF, 1=A, 2=B, 3=C
4992	Alarm delay (sec) alarm 961	RESERVE
4993	Alarm type for alarm 961	0=OFF, 1=A, 2=B, 3=C
4994	Alarm delay (sec) alarm 962	RESERVE
4995	Alarm type for alarm 962	0=OFF, 1=A, 2=B, 3=C
4996	Alarm delay (sec) alarm 963	RESERVE
4997	Alarm type for alarm 963	0=OFF, 1=A, 2=B, 3=C
4998	Alarm delay (sec) alarm 964	RESERVE
4999	Alarm type for alarm 964	0=OFF, 1=A, 2=B, 3=C
5000	Alarm delay (sec) alarm 965	RESERVE
5001	Alarm type for alarm 965	0=OFF, 1=A, 2=B, 3=C
5002	Alarm delay (sec) alarm 966	RESERVE
5003	Alarm type for alarm 966	0=OFF, 1=A, 2=B, 3=C
5004	Alarm delay (sec) alarm 967	RESERVE

Register no	Description	Scale factor / unit / note
5005	Alarm type for alarm 967	0=OFF, 1=A, 2=B, 3=C
5006	Alarm delay (sec) alarm 968	RESERVE
5007	Alarm type for alarm 968	0=OFF, 1=A, 2=B, 3=C
5008	Alarm delay (sec) alarm 969	RESERVE
5009	Alarm type for alarm 969	0=OFF, 1=A, 2=B, 3=C
5010	Alarm delay (sec) alarm 970	RESERVE
5011	Alarm type for alarm 970	0=OFF, 1=A, 2=B, 3=C
5012	Alarm delay (sec) alarm 971	RESERVE
5013	Alarm type for alarm 971	0=OFF, 1=A, 2=B, 3=C
5014	Alarm delay (sec) alarm 972	RESERVE
5015	Alarm type for alarm 972	0=OFF, 1=A, 2=B, 3=C
5016	Alarm delay (sec) alarm 973	RESERVE
5017	Alarm type for alarm 973	0=OFF, 1=A, 2=B, 3=C
5018	Alarm delay (sec) alarm 974	RESERVE
5019	Alarm type for alarm 974	0=OFF, 1=A, 2=B, 3=C
5020	Alarm delay (sec) alarm 975	RESERVE
5021	Alarm type for alarm 975	0=OFF, 1=A, 2=B, 3=C
5022	Alarm delay (sec) alarm 976	RESERVE
5023	Alarm type for alarm 976	0=OFF, 1=A, 2=B, 3=C
5024	Alarm delay (sec) alarm 977	RESERVE
5025	Alarm type for alarm 977	0=OFF, 1=A, 2=B, 3=C
5026	Alarm delay (sec) alarm 978	RESERVE
5027	Alarm type for alarm 978	0=OFF, 1=A, 2=B, 3=C
5028	Alarm delay (sec) alarm 979	RESERVE
5029	Alarm type for alarm 979	0=OFF, 1=A, 2=B, 3=C
5030	Alarm delay (sec) alarm 980	RESERVE
5031	Alarm type for alarm 980	0=OFF, 1=A, 2=B, 3=C
5032	Alarm delay (sec) alarm 981	RESERVE
5033	Alarm type for alarm 981	0=OFF, 1=A, 2=B, 3=C
5034	Alarm delay (sec) alarm 982	RESERVE
5035	Alarm type for alarm 982	0=OFF, 1=A, 2=B, 3=C
5036	Alarm delay (sec) alarm 983	RESERVE
5037	Alarm type for alarm 983	0=OFF, 1=A, 2=B, 3=C
5038	Alarm delay (sec) alarm 984	RESERVE
5039	Alarm type for alarm 984	0=OFF, 1=A, 2=B, 3=C
5040	Alarm delay (sec) alarm 985	RESERVE
5041	Alarm type for alarm 985	0=OFF, 1=A, 2=B, 3=C
5042	Alarm delay (sec) alarm 986	RESERVE
5043	Alarm type for alarm 986	0=OFF, 1=A, 2=B, 3=C
5044	Alarm delay (sec) alarm 987	RESERVE
5045	Alarm type for alarm 987	0=OFF, 1=A, 2=B, 3=C
5046	Alarm delay (sec) alarm 988	RESERVE
5047	Alarm type for alarm 988	0=OFF, 1=A, 2=B, 3=C
5048	Alarm delay (sec) alarm 989	RESERVE
5049	Alarm type for alarm 989	0=OFF, 1=A, 2=B, 3=C
5050	Alarm delay (sec) alarm 990	RESERVE
5051	Alarm type for alarm 990	0=OFF, 1=A, 2=B, 3=C
5052	Alarm delay (sec) alarm 991	RESERVE
5053	Alarm type for alarm 991	0=OFF, 1=A, 2=B, 3=C
5054	Alarm delay (sec) alarm 992	RESERVE
5055	Alarm type for alarm 992	0=OFF, 1=A, 2=B, 3=C
5056	Alarm delay (sec) alarm 993	RESERVE
5057	Alarm type for alarm 993	0=OFF, 1=A, 2=B, 3=C
5058	Alarm delay (sec) alarm 994	RESERVE
5059	Alarm type for alarm 994	0=OFF, 1=A, 2=B, 3=C
5060	Alarm delay (sec) alarm 995	RESERVE
5061	Alarm type for alarm 995	0=OFF, 1=A, 2=B, 3=C
5062	Alarm delay (sec) alarm 996	RESERVE
5063	Alarm type for alarm 996	0=OFF, 1=A, 2=B, 3=C
5064	Alarm delay (sec) alarm 997	RESERVE
5065	Alarm type for alarm 997	0=OFF, 1=A, 2=B, 3=C
5066	Alarm delay (sec) alarm 998	RESERVE

Register no	Description	Scale factor / unit / note
5067	Alarm type for alarm 998	0=OFF, 1=A, 2=B, 3=C
5068	Alarm delay (sec) alarm 999	RESERVE
5069	Alarm type for alarm 999	0=OFF, 1=A, 2=B, 3=C
5070	Alarm delay (sec) alarm 1000	RESERVE
5071	Alarm type for alarm 1000	0=OFF, 1=A, 2=B, 3=C
5072	Alarm delay (sec) alarm 1001	RESERVE
5073	Alarm type for alarm 1001	0=OFF, 1=A, 2=B, 3=C
5074	Alarm delay (sec) alarm 1002	RESERVE
5075	Alarm type for alarm 1002	0=OFF, 1=A, 2=B, 3=C
5076	Alarm delay (sec) alarm 1003	RESERVE
5077	Alarm type for alarm 1003	0=OFF, 1=A, 2=B, 3=C
5078	Alarm delay (sec) alarm 1004	RESERVE
5079	Alarm type for alarm 1004	0=OFF, 1=A, 2=B, 3=C
5080	Alarm delay (sec) alarm 1005	RESERVE
5081	Alarm type for alarm 1005	0=OFF, 1=A, 2=B, 3=C
5082	Alarm delay (sec) alarm 1006	RESERVE
5083	Alarm type for alarm 1006	0=OFF, 1=A, 2=B, 3=C
5084	Alarm delay (sec) alarm 1007	RESERVE
5085	Alarm type for alarm 1007	0=OFF, 1=A, 2=B, 3=C
5086	Alarm delay (sec) alarm 1008	RESERVE
5087	Alarm type for alarm 1008	0=OFF, 1=A, 2=B, 3=C
5088	Alarm delay (sec) alarm 1009	RESERVE
5089	Alarm type for alarm 1009	0=OFF, 1=A, 2=B, 3=C
5090	Alarm delay (sec) alarm 1010	RESERVE
5091	Alarm type for alarm 1010	0=OFF, 1=A, 2=B, 3=C
5092	Alarm delay (sec) alarm 1011	RESERVE
5093	Alarm type for alarm 1011	0=OFF, 1=A, 2=B, 3=C
5094	Alarm delay (sec) alarm 1012	RESERVE
5095	Alarm type for alarm 1012	0=OFF, 1=A, 2=B, 3=C
5096	Alarm delay (sec) alarm 1013	RESERVE
5097	Alarm type for alarm 1013	0=OFF, 1=A, 2=B, 3=C
5098	Alarm delay (sec) alarm 1014	RESERVE
5099	Alarm type for alarm 1014	0=OFF, 1=A, 2=B, 3=C
5100	Alarm delay (sec) alarm 1015	RESERVE
5101	Alarm type for alarm 1015	0=OFF, 1=A, 2=B, 3=C
5102	Alarm delay (sec) alarm 1016	RESERVE
5103	Alarm type for alarm 1016	0=OFF, 1=A, 2=B, 3=C
5104	Alarm delay (sec) alarm 1017	RESERVE
5105	Alarm type for alarm 1017	0=OFF, 1=A, 2=B, 3=C
5106	Alarm delay (sec) alarm 1018	RESERVE
5107	Alarm type for alarm 1018	0=OFF, 1=A, 2=B, 3=C
5108	Alarm delay (sec) alarm 1019	RESERVE
5109	Alarm type for alarm 1019	0=OFF, 1=A, 2=B, 3=C
5110	Alarm delay (sec) alarm 1020	RESERVE
5111	Alarm type for alarm 1020	0=OFF, 1=A, 2=B, 3=C
5112	Alarm delay (sec) alarm 1021	RESERVE
5113	Alarm type for alarm 1021	0=OFF, 1=A, 2=B, 3=C
5114	Alarm delay (sec) alarm 1022	RESERVE
5115	Alarm type for alarm 1022	0=OFF, 1=A, 2=B, 3=C
5116	Alarm delay (sec) alarm 1023	RESERVE
5117	Alarm type for alarm 1023	0=OFF, 1=A, 2=B, 3=C
5118	Alarm delay (sec) alarm 1024	RESERVE
5119	Alarm type for alarm 1024	0=OFF, 1=A, 2=B, 3=C

3.1.39 Pump configuration Pump 1-16

3.1.39.1 Pump configuration Pump 1

5122 + 5123	Normal start level	cm
5124 + 5125	Normal stop level	cm
5126	Set point on delay	sec

Register no	Description	Scale factor / unit / note
5127	Set point off delay	sec
5128	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5129	Signal for run verification	0=None, 1=D.in, 2=Motor current
5130 + 5131	Motor current for run indication	0.01 A
5132	Pump curve reference level	cm
5133	Pump capacity at ref. level	l/s
5134	Pump curve level 1	cm
5135	Pump capacity at level 1	l/s
5136	Pump curve level 2	cm
5137	Pump capacity at level 2	l/s
5138	Set point low pump capacity	0.1 l/s
5139	Calculation time pump capacity	sec
5140	Time from start until full pump flow	sec
5141	Time from stop until zero pump flow	sec
5142 + 5143	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5144 + 5145	Start level at night	cm
5146 + 5147	Stop level at night	cm
5148	Night control enabled	0=Disabled, 1=Enabled
5149	Max. running time	sec 0=Disabled
5150	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5151	Alternate pump	0=Off, 1=On
5152	Pump run on high float	0=Off, 1=On
5153	Block pump until alarms ackn. Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.	0=Off Bit mask: Bit 0=High motor current

3.1.39.2 Pump configuration Pump 2

5154 + 5155	Normal start level	cm
5156 + 5157	Normal stop level	cm
5158	Set point on delay	sec
5159	Set point off delay	sec
5160	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5161	Signal for run verification	0=None, 1=D.in, 2=Motor current
5162 + 5163	Motor current for run indication	0.01 A
5164	Pump curve reference level	cm
5165	Pump capacity at ref. level	l/s
5166	Pump curve level 1	cm
5167	Pump capacity at level 1	l/s
5168	Pump curve level 2	cm
5169	Pump capacity at level 2	l/s
5170	Set point low pump capacity	0.1 l/s
5171	Calculation time pump capacity	sec
5172	Time from start until full pump flow	sec
5173	Time from stop until zero pump flow	sec
5174 + 5175	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5176 + 5177	Start level at night	cm
5178 + 5179	Stop level at night	cm
5180	Night control enabled	0=Disabled, 1=Enabled
5181	Max. running time	sec 0=Disabled
5182	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5183	Alternate pump	0=Off, 1=On
5184	Pump run on high float	0=Off, 1=On
5185	Block pump until alarms ackn. Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.	0=Off Bit mask: Bit 0=High motor current

3.1.39.3 Pump configuration Pump 3

5186 + 5187	Normal start level	cm
5188 + 5189	Normal stop level	cm

Register no	Description	Scale factor / unit / note
5190	Set point on delay	sec
5191	Set point off delay	sec
5192	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5193	Signal for run verification	0=None, 1=D.in, 2=Motor current
5194 + 5195	Motor current for run indication	0.01 A
5196	Pump curve reference level	cm
5197	Pump capacity at ref. level	l/s
5198	Pump curve level 1	cm
5199	Pump capacity at level 1	l/s
5200	Pump curve level 2	cm
5201	Pump capacity at level 2	l/s
5202	Set point low pump capacity	0.1 l/s
5203	Calculation time pump capacity	sec
5204	Time from start until full pump flow	sec
5205	Time from stop until zero pump flow	sec
5206 + 5207	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5208 + 5209	Start level at night	cm
5210 + 5211	Stop level at night	cm
5212	Night control enabled	0=Disabled, 1=Enabled
5213	Max. running time	sec 0=Disabled
5214	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5215	Alternate pump	0=Off, 1=On
5216	Pump run on high float	0=Off, 1=On
5217	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

3.1.39.4 Pump configuration Pump 4

5218 + 5219	Normal start level	cm
5220 + 5221	Normal stop level	cm
5222	Set point on delay	sec
5223	Set point off delay	sec
5224	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5225	Signal for run verification	0=None, 1=D.in, 2=Motor current
5226 + 5227	Motor current for run indication	0.01 A
5228	Pump curve reference level	cm
5229	Pump capacity at ref. level	l/s
5230	Pump curve level 1	cm
5231	Pump capacity at level 1	l/s
5232	Pump curve level 2	cm
5233	Pump capacity at level 2	l/s
5234	Set point low pump capacity	0.1 l/s
5235	Calculation time pump capacity	sec
5236	Time from start until full pump flow	sec
5237	Time from stop until zero pump flow	sec
5238 + 5239	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5240 + 5241	Start level at night	cm
5242 + 5243	Stop level at night	cm
5244	Night control enabled	0=Disabled, 1=Enabled
5245	Max. running time	sec 0=Disabled
5246	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5247	Alternate pump	0=Off, 1=On
5248	Pump run on high float	0=Off, 1=On
5249	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

3.1.39.5 Pump configuration Pump 5

5250 + 5251	Normal start level	cm
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Register no	Description	Scale factor / unit / note
5252 + 5253	Normal stop level	cm
5254	Set point on delay	sec
5255	Set point off delay	sec
5256	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5257	Signal for run verification	0=None, 1=D.in, 2=Motor current
5258 + 5259	Motor current for run indication	0.01 A
5260	Pump curve reference level	cm
5261	Pump capacity at ref. level	l/s
5262	Pump curve level 1	cm
5263	Pump capacity at level 1	l/s
5264	Pump curve level 2	cm
5265	Pump capacity at level 2	l/s
5266	Set point low pump capacity	0.1 l/s
5267	Calculation time pump capacity	sec
5268	Time from start until full pump flow	sec
5269	Time from stop until zero pump flow	sec
5270 + 5271	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5272 + 5273	Start level at night	cm
5274 + 5275	Stop level at night	cm
5276	Night control enabled	0=Disabled, 1=Enabled
5277	Max. running time	sec 0=Disabled
5278	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5279	Alternate pump	0=Off, 1=On
5280	Pump run on high float	0=Off, 1=On
5281	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current
	Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot.	
	Bit 4=Low pump cap., Bit 5=No run ind.	

3.1.39.6 Pump configuration Pump 6

5282 + 5283	Normal start level	cm
5284 + 5285	Normal stop level	cm
5286	Set point on delay	sec
5287	Set point off delay	sec
5288	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5289	Signal for run verification	0=None, 1=D.in, 2=Motor current
5290 + 5291	Motor current for run indication	0.01 A
5292	Pump curve reference level	cm
5293	Pump capacity at ref. level	l/s
5294	Pump curve level 1	cm
5295	Pump capacity at level 1	l/s
5296	Pump curve level 2	cm
5297	Pump capacity at level 2	l/s
5298	Set point low pump capacity	0.1 l/s
5299	Calculation time pump capacity	sec
5300	Time from start until full pump flow	sec
5301	Time from stop until zero pump flow	sec
5302 + 5303	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5304 + 5305	Start level at night	cm
5306 + 5307	Stop level at night	cm
5308	Night control enabled	0=Disabled, 1=Enabled
5309	Max. running time	sec 0=Disabled
5310	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5311	Alternate pump	0=Off, 1=On
5312	Pump run on high float	0=Off, 1=On
5313	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current
	Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot.	
	Bit 4=Low pump cap., Bit 5=No run ind.	

Register no	Description	Scale factor / unit / note
3.1.39.7 Pump configuration Pump 7		
5314 + 5315	Normal start level	cm
5316 + 5317	Normal stop level	cm
5318	Set point on delay	sec
5319	Set point off delay	sec
5320	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5321	Signal for run verification	0=None, 1=D.in, 2=Motor current
5322 + 5323	Motor current for run indication	0.01 A
5324	Pump curve reference level	cm
5325	Pump capacity at ref. level	l/s
5326	Pump curve level 1	cm
5327	Pump capacity at level 1	l/s
5328	Pump curve level 2	cm
5329	Pump capacity at level 2	l/s
5330	Set point low pump capacity	0.1 l/s
5331	Calculation time pump capacity	sec
5332	Time from start until full pump flow	sec
5333	Time from stop until zero pump flow	sec
5334 + 5335	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5336 + 5337	Start level at night	cm
5338 + 5339	Stop level at night	cm
5340	Night control enabled	0=Disabled, 1=Enabled
5341	Max. running time	sec 0=Disabled
5342	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5343	Alternate pump	0=Off, 1=On
5344	Pump run on high float	0=Off, 1=On
5345	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.
3.1.39.8 Pump configuration Pump 8		
5346 + 5347	Normal start level	cm
5348 + 5349	Normal stop level	cm
5350	Set point on delay	sec
5351	Set point off delay	sec
5352	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5353	Signal for run verification	0=None, 1=D.in, 2=Motor current
5354 + 5355	Motor current for run indication	0.01 A
5356	Pump curve reference level	cm
5357	Pump capacity at ref. level	l/s
5358	Pump curve level 1	cm
5359	Pump capacity at level 1	l/s
5360	Pump curve level 2	cm
5361	Pump capacity at level 2	l/s
5362	Set point low pump capacity	0.1 l/s
5363	Calculation time pump capacity	sec
5364	Time from start until full pump flow	sec
5365	Time from stop until zero pump flow	sec
5366 + 5367	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5368 + 5369	Start level at night	cm
5370 + 5371	Stop level at night	cm
5372	Night control enabled	0=Disabled, 1=Enabled
5373	Max. running time	sec 0=Disabled
5374	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5375	Alternate pump	0=Off, 1=On
5376	Pump run on high float	0=Off, 1=On
5377	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

Register no	Description	Scale factor / unit / note
3.1.39.9 Pump configuration Pump 9		
5378 + 5379	Normal start level	cm
5380 + 5381	Normal stop level	cm
5382	Set point on delay	sec
5383	Set point off delay	sec
5384	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5385	Signal for run verification	0=None, 1=D.in, 2=Motor current
5386 + 5387	Motor current for run indication	0.01 A
5388	Pump curve reference level	cm
5389	Pump capacity at ref. level	l/s
5390	Pump curve level 1	cm
5391	Pump capacity at level 1	l/s
5392	Pump curve level 2	cm
5393	Pump capacity at level 2	l/s
5394	Set point low pump capacity	0.1 l/s
5395	Calculation time pump capacity	sec
5396	Time from start until full pump flow	sec
5397	Time from stop until zero pump flow	sec
5398 + 5399	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5400 + 5401	Start level at night	cm
5402 + 5403	Stop level at night	cm
5404	Night control enabled	0=Disabled, 1=Enabled
5405	Max. running time	sec 0=Disabled
5406	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5407	Alternate pump	0=Off, 1=On
5408	Pump run on high float	0=Off, 1=On
5409	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.
3.1.39.10 Pump configuration Pump 10		
5410 + 5411	Normal start level	cm
5412 + 5413	Normal stop level	cm
5414	Set point on delay	sec
5415	Set point off delay	sec
5416	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5417	Signal for run verification	0=None, 1=D.in, 2=Motor current
5418 + 5419	Motor current for run indication	0.01 A
5420	Pump curve reference level	cm
5421	Pump capacity at ref. level	l/s
5422	Pump curve level 1	cm
5423	Pump capacity at level 1	l/s
5424	Pump curve level 2	cm
5425	Pump capacity at level 2	l/s
5426	Set point low pump capacity	0.1 l/s
5427	Calculation time pump capacity	sec
5428	Time from start until full pump flow	sec
5429	Time from stop until zero pump flow	sec
5430 + 5431	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5432 + 5433	Start level at night	cm
5434 + 5435	Stop level at night	cm
5436	Night control enabled	0=Disabled, 1=Enabled
5437	Max. running time	sec 0=Disabled
5438	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5439	Alternate pump	0=Off, 1=On
5440	Pump run on high float	0=Off, 1=On
5441	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

Register no	Description	Scale factor / unit / note
3.1.39.11 Pump configuration Pump 11		
5442 + 5443	Normal start level	cm
5444 + 5445	Normal stop level	cm
5446	Set point on delay	sec
5447	Set point off delay	sec
5448	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5449	Signal for run verification	0=None, 1=D.in, 2=Motor current
5450 + 5451	Motor current for run indication	0.01 A
5452	Pump curve reference level	cm
5453	Pump capacity at ref. level	l/s
5454	Pump curve level 1	cm
5455	Pump capacity at level 1	l/s
5456	Pump curve level 2	cm
5457	Pump capacity at level 2	l/s
5458	Set point low pump capacity	0.1 l/s
5459	Calculation time pump capacity	sec
5460	Time from start until full pump flow	sec
5461	Time from stop until zero pump flow	sec
5462 + 5463	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5464 + 5465	Start level at night	cm
5466 + 5467	Stop level at night	cm
5468	Night control enabled	0=Disabled, 1=Enabled
5469	Max. running time	sec 0=Disabled
5470	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5471	Alternate pump	0=Off, 1=On
5472	Pump run on high float	0=Off, 1=On
5473	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.
3.1.39.12 Pump configuration Pump 12		
5474 + 5475	Normal start level	cm
5476 + 5477	Normal stop level	cm
5478	Set point on delay	sec
5479	Set point off delay	sec
5480	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5481	Signal for run verification	0=None, 1=D.in, 2=Motor current
5482 + 5483	Motor current for run indication	0.01 A
5484	Pump curve reference level	cm
5485	Pump capacity at ref. level	l/s
5486	Pump curve level 1	cm
5487	Pump capacity at level 1	l/s
5488	Pump curve level 2	cm
5489	Pump capacity at level 2	l/s
5490	Set point low pump capacity	0.1 l/s
5491	Calculation time pump capacity	sec
5492	Time from start until full pump flow	sec
5493	Time from stop until zero pump flow	sec
5494 + 5495	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5496 + 5497	Start level at night	cm
5498 + 5499	Stop level at night	cm
5500	Night control enabled	0=Disabled, 1=Enabled
5501	Max. running time	sec 0=Disabled
5502	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5503	Alternate pump	0=Off, 1=On
5504	Pump run on high float	0=Off, 1=On
5505	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

Register no	Description	Scale factor / unit / note
3.1.39.13 Pump configuration Pump 13		
5506 + 5507	Normal start level	cm
5508 + 5509	Normal stop level	cm
5510	Set point on delay	sec
5511	Set point off delay	sec
5512	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5513	Signal for run verification	0=None, 1=D.in, 2=Motor current
5514 + 5515	Motor current for run indication	0.01 A
5516	Pump curve reference level	cm
5517	Pump capacity at ref. level	l/s
5518	Pump curve level 1	cm
5519	Pump capacity at level 1	l/s
5520	Pump curve level 2	cm
5521	Pump capacity at level 2	l/s
5522	Set point low pump capacity	0.1 l/s
5523	Calculation time pump capacity	sec
5524	Time from start until full pump flow	sec
5525	Time from stop until zero pump flow	sec
5526 + 5527	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5528 + 5529	Start level at night	cm
5530 + 5531	Stop level at night	cm
5532	Night control enabled	0=Disabled, 1=Enabled
5533	Max. running time	sec 0=Disabled
5534	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5535	Alternate pump	0=Off, 1=On
5536	Pump run on high float	0=Off, 1=On
5537	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.
3.1.39.14 Pump configuration Pump 14		
5538 + 5539	Normal start level	cm
5540 + 5541	Normal stop level	cm
5542	Set point on delay	sec
5543	Set point off delay	sec
5544	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5545	Signal for run verification	0=None, 1=D.in, 2=Motor current
5546 + 5547	Motor current for run indication	0.01 A
5548	Pump curve reference level	cm
5549	Pump capacity at ref. level	l/s
5550	Pump curve level 1	cm
5551	Pump capacity at level 1	l/s
5552	Pump curve level 2	cm
5553	Pump capacity at level 2	l/s
5554	Set point low pump capacity	0.1 l/s
5555	Calculation time pump capacity	sec
5556	Time from start until full pump flow	sec
5557	Time from stop until zero pump flow	sec
5558 + 5559	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5560 + 5561	Start level at night	cm
5562 + 5563	Stop level at night	cm
5564	Night control enabled	0=Disabled, 1=Enabled
5565	Max. running time	sec 0=Disabled
5566	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5567	Alternate pump	0=Off, 1=On
5568	Pump run on high float	0=Off, 1=On
5569	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

Register no	Description	Scale factor / unit / note
3.1.39.15 Pump configuration Pump 15		
5570 + 5571	Normal start level	cm
5572 + 5573	Normal stop level	cm
5574	Set point on delay	sec
5575	Set point off delay	sec
5576	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5577	Signal for run verification	0=None, 1=D.in, 2=Motor current
5578 + 5579	Motor current for run indication	0.01 A
5580	Pump curve reference level	cm
5581	Pump capacity at ref. level	l/s
5582	Pump curve level 1	cm
5583	Pump capacity at level 1	l/s
5584	Pump curve level 2	cm
5585	Pump capacity at level 2	l/s
5586	Set point low pump capacity	0.1 l/s
5587	Calculation time pump capacity	sec
5588	Time from start until full pump flow	sec
5589	Time from stop until zero pump flow	sec
5590 + 5591	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5592 + 5593	Start level at night	cm
5594 + 5595	Stop level at night	cm
5596	Night control enabled	0=Disabled, 1=Enabled
5597	Max. running time	sec 0=Disabled
5598	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5599	Alternate pump	0=Off, 1=On
5600	Pump run on high float	0=Off, 1=On
5601	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.
3.1.39.16 Pump configuration Pump 16		
5602 + 5603	Normal start level	cm
5604 + 5605	Normal stop level	cm
5606	Set point on delay	sec
5607	Set point off delay	sec
5608	Pump pit no /Sensor signal	0=Off, 1-4=Pump pit, 5-6=PID controlled,7-?=A.in
5609	Signal for run verification	0=None, 1=D.in, 2=Motor current
5610 + 5611	Motor current for run indication	0.01 A
5612	Pump curve reference level	cm
5613	Pump capacity at ref. level	l/s
5614	Pump curve level 1	cm
5615	Pump capacity at level 1	l/s
5616	Pump curve level 2	cm
5617	Pump capacity at level 2	l/s
5618	Set point low pump capacity	0.1 l/s
5619	Calculation time pump capacity	sec
5620	Time from start until full pump flow	sec
5621	Time from stop until zero pump flow	sec
5622 + 5623	Set point high inflow start	0.1 l/s 0=No pump start on inflow
5624 + 5625	Start level at night	cm
5626 + 5627	Stop level at night	cm
5628	Night control enabled	0=Disabled, 1=Enabled
5629	Max. running time	sec 0=Disabled
5630	Trig conditions for auto pump reverse	0=Manual, 1=M.prot., 2=Low P.cap.,(3=1+2)
5631	Alternate pump	0=Off, 1=On
5632	Pump run on high float	0=Off, 1=On
5633	Block pump until alarms ackn.	0=Off Bit mask: Bit 0=High motor current Bit 1=Low motor current, Bit 2=Motor prot., Bit 3=Temp.prot. Bit 4=Low pump cap., Bit 5=No run ind.

Register no	Description	Scale factor / unit / note
3.1.40	Pump valve Pump 1-16	
3.1.40.1 Pump valve Pump 1		
5634	Max time opening	sec
5635	Max time re-open	sec
5636	Max time closing	sec
5637	Pump runtime during close	sec
5638	Pump runtime before open	sec
5639	Alarm block active	Only indication
5640	Retry delay on close error	sec (0=No retry)
3.1.40.2 Pump valve Pump 2		
5642	Max time opening	sec
5643	Max time re-open	sec
5644	Max time closing	sec
5645	Pump runtime during close	sec
5646	Pump runtime before open	sec
5647	Alarm block active	Only indication
5648	Retry delay on close error	sec (0=No retry)
3.1.40.3 Pump valve Pump 3		
5650	Max time opening	sec
5651	Max time re-open	sec
5652	Max time closing	sec
5653	Pump runtime during close	sec
5654	Pump runtime before open	sec
5655	Alarm block active	Only indication
5656	Retry delay on close error	sec (0=No retry)
3.1.40.4 Pump valve Pump 4		
5658	Max time opening	sec
5659	Max time re-open	sec
5660	Max time closing	sec
5661	Pump runtime during close	sec
5662	Pump runtime before open	sec
5663	Alarm block active	Only indication
5664	Retry delay on close error	sec (0=No retry)
3.1.40.5 Pump valve Pump 5		
5666	Max time opening	sec
5667	Max time re-open	sec
5668	Max time closing	sec
5669	Pump runtime during close	sec
5670	Pump runtime before open	sec
5671	Alarm block active	Only indication
5672	Retry delay on close error	sec (0=No retry)
3.1.40.6 Pump valve Pump 6		
5674	Max time opening	sec
5675	Max time re-open	sec
5676	Max time closing	sec
5677	Pump runtime during close	sec
5678	Pump runtime before open	sec
5679	Alarm block active	Only indication

Register no	Description	Scale factor / unit / note
5680	Retry delay on close error	sec (0=No retry)
3.1.40.7 Pump valve Pump 7		
5682	Max time opening	sec
5683	Max time re-open	sec
5684	Max time closing	sec
5685	Pump runtime during close	sec
5686	Pump runtime before open	sec
5687	Alarm block active	Only indication
5688	Retry delay on close error	sec (0=No retry)
3.1.40.8 Pump valve Pump 8		
5690	Max time opening	sec
5691	Max time re-open	sec
5692	Max time closing	sec
5693	Pump runtime during close	sec
5694	Pump runtime before open	sec
5695	Alarm block active	Only indication
5696	Retry delay on close error	sec (0=No retry)
3.1.40.9 Pump valve Pump 9		
5698	Max time opening	sec
5699	Max time re-open	sec
5700	Max time closing	sec
5701	Pump runtime during close	sec
5702	Pump runtime before open	sec
5703	Alarm block active	Only indication
5704	Retry delay on close error	sec (0=No retry)
3.1.40.10 Pump valve Pump 10		
5706	Max time opening	sec
5707	Max time re-open	sec
5708	Max time closing	sec
5709	Pump runtime during close	sec
5710	Pump runtime before open	sec
5711	Alarm block active	Only indication
5712	Retry delay on close error	sec (0=No retry)
3.1.40.11 Pump valve Pump 11		
5714	Max time opening	sec
5715	Max time re-open	sec
5716	Max time closing	sec
5717	Pump runtime during close	sec
5718	Pump runtime before open	sec
5719	Alarm block active	Only indication
5720	Retry delay on close error	sec (0=No retry)
3.1.40.12 Pump valve Pump 12		
5722	Max time opening	sec
5723	Max time re-open	sec
5724	Max time closing	sec
5725	Pump runtime during close	sec
5726	Pump runtime before open	sec

Register no	Description	Scale factor / unit / note
5727	Alarm block active	Only indication
5728	Retry delay on close error	sec (0=No retry)

3.1.40.13 Pump valve Pump 13

5730	Max time opening	sec
5731	Max time re-open	sec
5732	Max time closing	sec
5733	Pump runtime during close	sec
5734	Pump runtime before open	sec
5735	Alarm block active	Only indication
5736	Retry delay on close error	sec (0=No retry)

3.1.40.14 Pump valve Pump 14

5738	Max time opening	sec
5739	Max time re-open	sec
5740	Max time closing	sec
5741	Pump runtime during close	sec
5742	Pump runtime before open	sec
5743	Alarm block active	Only indication
5744	Retry delay on close error	sec (0=No retry)

3.1.40.15 Pump valve Pump 15

5746	Max time opening	sec
5747	Max time re-open	sec
5748	Max time closing	sec
5749	Pump runtime during close	sec
5750	Pump runtime before open	sec
5751	Alarm block active	Only indication
5752	Retry delay on close error	sec (0=No retry)

3.1.40.16 Pump valve Pump 16

5754	Max time opening	sec
5755	Max time re-open	sec
5756	Max time closing	sec
5757	Pump runtime during close	sec
5758	Pump runtime before open	sec
5759	Alarm block active	Only indication
5760	Retry delay on close error	sec (0=No retry)

3.1.41 Pump pit valve Pump pit 1-4

3.1.41.1 Pump pit valve Pump pit 1

5762	Max time opening	sec
5763	Max time re-open	sec
5764	Max time closing	sec
5765	Pump runtime during close	sec
5766	Pump runtime before open	sec
5767	Alarm block active	Only indication
5768	Retry delay on close error	sec (0=No retry)

3.1.41.2 Pump pit valve Pump pit 2

5770	Max time opening	sec
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Register no	Description	Scale factor / unit / note
5771	Max time re-open	sec
5772	Max time closing	sec
5773	Pump runtime during close	sec
5774	Pump runtime before open	sec
5775	Alarm block active	Only indication
5776	Retry delay on close error	sec (0=No retry)

3.1.41.3 Pump pit valve Pump pit 3

5778	Max time opening	sec
5779	Max time re-open	sec
5780	Max time closing	sec
5781	Pump runtime during close	sec
5782	Pump runtime before open	sec
5783	Alarm block active	Only indication
5784	Retry delay on close error	sec (0=No retry)

3.1.41.4 Pump pit valve Pump pit 4

5786	Max time opening	sec
5787	Max time re-open	sec
5788	Max time closing	sec
5789	Pump runtime during close	sec
5790	Pump runtime before open	sec
5791	Alarm block active	Only indication
5792	Retry delay on close error	sec (0=No retry)

3.1.42 Pump pit configuration Pump pit 1-4

3.1.42.1 Pump pit configuration Pump pit 1

5794	Min time between pump starts	sec
5795	Runtime on high float control	sec
5796	Min time between pump stop	sec
5797	Relative level (l.a.s.)	cm
5798	Auto alternate on pump error (F702)	0/1
5799	Pit area level 0	cm Always 0
5800	Area at level 0	0.1 m2
5801	Pit area level 1	cm
5802	Area at level 1	0.1 m2
5803	Pit area level 2	cm
5804	Area at level 2	0.1 m2
5805	Pit area level 3	cm
5806	Area at level 3	0.1 m2
5807	Pit area level 4	cm
5808	Area at level 4	0.1 m2
5809	Pit area level 5	cm
5810	Area at level 5	0.1 m2
5811	Pit area level 6	cm
5812	Area at level 6	0.1 m2
5813	Pit area level 7	cm
5814	Area at level 7	0.1 m2
5815	Pit area level 8	cm
5816	Area at level 8	0.1 m2
5817	Pit area level 9	cm
5818	Area at level 9	0.1 m2
5819	Inflow calculation interval	sec
5820	Pit shape	0=Rektangular, 1=Cone
5821	Pumping Empties / Fills the pit	0=Empty, 1=Fill
5823	Pumps pressure height	cm

Register no	Description	Scale factor / unit / note
5824	Min level for pump capacity calculation	cm
5825	Pump capacity 1 pump running	% Always 100 %
5826	Pump capacity 2 pumps running	%
5827	Pump capacity 3 pumps running	%
5828	Pump capacity 4 pumps running	%
5829	Pump capacity 5 pumps running	%
5830	Pump capacity 6 pumps running	%
5831	Pump capacity 7 pumps running	%
5832	Pump capacity 8 pumps running	%
5833	Pump capacity 9 pumps running	%
5834	Pump capacity 10 pumps running	%
5835	Pump capacity 11 pumps running	%
5836	Pump capacity 12 pumps running	%
5837	Pump capacity 13 pumps running	%
5838	Pump capacity 14 pumps running	%
5839	Pump capacity 15 pumps running	%
5840	Pump capacity 16 pumps running	%
5841 + 5842	Overflow level (if no overflow detector)	mm
5843 + 5844	High float level (for sensor check)	cm
5845	Max deviation (for sensor fail alarm)	cm
5846 + 5847	Set point high level alarm	cm
5848	Hysteresis high level alarm	cm
5849 + 5850	Set point low level alarm	cm
5851	Hysteresis low level alarm	cm
5852 + 5853	Set point high inflow alarm	cm
5854	Hysteresis high inflow alarm	cm
5855 + 5856	Set point low inflow alarm	cm
5857	Hysteresis low inflow alarm	cm

3.1.42.2 Pump pit configuration Pump pit 2

5858	Min time between pump starts	sec
5859	Runtime on high float control	sec
5860	Min time between pump stop	sec
5861	Relative level (l.a.s.)	cm
5862	Auto alternate on pump error (F702)	0/1
5863	Pit area level 0	cm Always 0
5864	Area at level 0	0.1 m2
5865	Pit area level 1	cm
5866	Area at level 1	0.1 m2
5867	Pit area level 2	cm
5868	Area at level 2	0.1 m2
5869	Pit area level 3	cm
5870	Area at level 3	0.1 m2
5871	Pit area level 4	cm
5872	Area at level 4	0.1 m2
5873	Pit area level 5	cm
5874	Area at level 5	0.1 m2
5875	Pit area level 6	cm
5876	Area at level 6	0.1 m2
5877	Pit area level 7	cm
5878	Area at level 7	0.1 m2
5879	Pit area level 8	cm
5880	Area at level 8	0.1 m2
5881	Pit area level 9	cm
5882	Area at level 9	0.1 m2
5883	Inflow calculation interval	sec
5884	Pit shape	0=Rektangular, 1=Cone
5885	Pumping Empties / Fills the pit	0=Empty, 1=Fill
5887	Pumps pressure height	cm
5888	Min level for pump capacity calculation	cm

Register no	Description	Scale factor / unit / note
5889	Pump capacity 1 pump running	% Always 100 %
5890	Pump capacity 2 pumps running	%
5891	Pump capacity 3 pumps running	%
5892	Pump capacity 4 pumps running	%
5893	Pump capacity 5 pumps running	%
5894	Pump capacity 6 pumps running	%
5895	Pump capacity 7 pumps running	%
5896	Pump capacity 8 pumps running	%
5897	Pump capacity 9 pumps running	%
5898	Pump capacity 10 pumps running	%
5899	Pump capacity 11 pumps running	%
5900	Pump capacity 12 pumps running	%
5901	Pump capacity 13 pumps running	%
5902	Pump capacity 14 pumps running	%
5903	Pump capacity 15 pumps running	%
5904	Pump capacity 16 pumps running	%
5905 + 5906	Overflow level (if no overflow detector)	mm
5907 + 5908	High float level (for sensor check)	cm
5909	Max deviation (for sensor fail alarm)	cm
5910 + 5911	Set point high level alarm	cm
5912	Hysteresis high level alarm	cm
5913 + 5914	Set point low level alarm	cm
5915	Hysteresis low level alarm	cm
5916 + 5917	Set point high inflow alarm	cm
5918	Hysteresis high inflow alarm	cm
5919 + 5920	Set point low inflow alarm	cm
5921	Hysteresis low inflow alarm	cm

3.1.42.3 Pump pit configuration Pump pit 3

5922	Min time between pump starts	sec
5923	Runtime on high float control	sec
5924	Min time between pump stop	sec
5925	Relative level (l.a.s.)	cm
5926	Auto alternate on pump error (F702)	0/1
5927	Pit area level 0	cm Always 0
5928	Area at level 0	0.1 m2
5929	Pit area level 1	cm
5930	Area at level 1	0.1 m2
5931	Pit area level 2	cm
5932	Area at level 2	0.1 m2
5933	Pit area level 3	cm
5934	Area at level 3	0.1 m2
5935	Pit area level 4	cm
5936	Area at level 4	0.1 m2
5937	Pit area level 5	cm
5938	Area at level 5	0.1 m2
5939	Pit area level 6	cm
5940	Area at level 6	0.1 m2
5941	Pit area level 7	cm
5942	Area at level 7	0.1 m2
5943	Pit area level 8	cm
5944	Area at level 8	0.1 m2
5945	Pit area level 9	cm
5946	Area at level 9	0.1 m2
5947	Inflow calculation interval	sec
5948	Pit shape	0=Rektangular, 1=Cone
5949	Pumping Empties / Fills the pit	0=Empty, 1=Fill
5951	Pumps pressure height	cm
5952	Min level for pump capacity calculation	cm
5953	Pump capacity 1 pump running	% Always 100 %

Register no	Description	Scale factor / unit / note
5954	Pump capacity 2 pumps running	%
5955	Pump capacity 3 pumps running	%
5956	Pump capacity 4 pumps running	%
5957	Pump capacity 5 pumps running	%
5958	Pump capacity 6 pumps running	%
5959	Pump capacity 7 pumps running	%
5960	Pump capacity 8 pumps running	%
5961	Pump capacity 9 pumps running	%
5962	Pump capacity 10 pumps running	%
5963	Pump capacity 11 pumps running	%
5964	Pump capacity 12 pumps running	%
5965	Pump capacity 13 pumps running	%
5966	Pump capacity 14 pumps running	%
5967	Pump capacity 15 pumps running	%
5968	Pump capacity 16 pumps running	%
5969 + 5970	Overflow level (if no overflow detector)	mm
5971 + 5972	High float level (for sensor check)	cm
5973	Max deviation (for sensor fail alarm)	cm
5974 + 5975	Set point high level alarm	cm
5976	Hysteresis high level alarm	cm
5977 + 5978	Set point low level alarm	cm
5979	Hysteresis low level alarm	cm
5980 + 5981	Set point high inflow alarm	cm
5982	Hysteresis high inflow alarm	cm
5983 + 5984	Set point low inflow alarm	cm
5985	Hysteresis low inflow alarm	cm

3.1.42.4 Pump pit configuration Pump pit 4

5986	Min time between pump starts	sec
5987	Runtime on high float control	sec
5988	Min time between pump stop	sec
5989	Relative level (l.a.s.)	cm
5990	Auto alternate on pump error (F702)	0/1
5991	Pit area level 0	cm Always 0
5992	Area at level 0	0.1 m2
5993	Pit area level 1	cm
5994	Area at level 1	0.1 m2
5995	Pit area level 2	cm
5996	Area at level 2	0.1 m2
5997	Pit area level 3	cm
5998	Area at level 3	0.1 m2
5999	Pit area level 4	cm
6000	Area at level 4	0.1 m2
6001	Pit area level 5	cm
6002	Area at level 5	0.1 m2
6003	Pit area level 6	cm
6004	Area at level 6	0.1 m2
6005	Pit area level 7	cm
6006	Area at level 7	0.1 m2
6007	Pit area level 8	cm
6008	Area at level 8	0.1 m2
6009	Pit area level 9	cm
6010	Area at level 9	0.1 m2
6011	Inflow calculation interval	sec
6012	Pit shape	0=Rektangular, 1=Cone
6013	Pumping Empties / Fills the pit	0=Empty, 1=Fill
6015	Pumps pressure height	cm
6016	Min level for pump capacity calculation	cm
6017	Pump capacity 1 pump running	% Always 100 %
6018	Pump capacity 2 pumps running	%

Register no	Description	Scale factor / unit / note
6019	Pump capacity 3 pumps running	%
6020	Pump capacity 4 pumps running	%
6021	Pump capacity 5 pumps running	%
6022	Pump capacity 6 pumps running	%
6023	Pump capacity 7 pumps running	%
6024	Pump capacity 8 pumps running	%
6025	Pump capacity 9 pumps running	%
6026	Pump capacity 10 pumps running	%
6027	Pump capacity 11 pumps running	%
6028	Pump capacity 12 pumps running	%
6029	Pump capacity 13 pumps running	%
6030	Pump capacity 14 pumps running	%
6031	Pump capacity 15 pumps running	%
6032	Pump capacity 16 pumps running	%
6033 + 6034	Overflow level (if no overflow detector)	mm
6035 + 6036	High float level (for sensor check)	cm
6037	Max deviation (for sensor fail alarm)	cm
6038 + 6039	Set point high level alarm	cm
6040	Hysteresis high level alarm	cm
6041 + 6042	Set point low level alarm	cm
6043	Hysteresis low level alarm	cm
6044 + 6045	Set point high inflow alarm	cm
6046	Hysteresis high inflow alarm	cm
6047 + 6048	Set point low inflow alarm	cm
6049	Hysteresis low inflow alarm	cm

3.1.43 Digital pulse inputs Pulse channel 1-8

3.1.43.1 Digital pulse inputs Pulse channel 1

6050	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6051	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6052	Input on Digital in index.	(0-15)
6053 + 6054	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6055	Hysteresis high alarm	
6056	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit

3.1.43.2 Digital pulse inputs Pulse channel 2

6058	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6059	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6060	Input on Digital in index.	(0-15)
6061 + 6062	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6063	Hysteresis high alarm	
6064	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit

3.1.43.3 Digital pulse inputs Pulse channel 3

6066	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6067	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6068	Input on Digital in index.	(0-15)
6069 + 6070	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6071	Hysteresis high alarm	
6072	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit

Register no	Description	Scale factor / unit / note
3.1.43.4 Digital pulse inputs Pulse channel 4		
6074	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6075	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6076	Input on Digital in index.	(0-15)
6077 + 6078	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6079	Hysteresis high alarm	
6080	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit
3.1.43.5 Digital pulse inputs Pulse channel 5		
6082	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6083	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6084	Input on Digital in index.	(0-15)
6085 + 6086	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6087	Hysteresis high alarm	
6088	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit
3.1.43.6 Digital pulse inputs Pulse channel 6		
6090	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6091	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6092	Input on Digital in index.	(0-15)
6093 + 6094	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6095	Hysteresis high alarm	
6096	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit
3.1.43.7 Digital pulse inputs Pulse channel 7		
6098	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6099	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6100	Input on Digital in index.	(0-15)
6101 + 6102	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6103	Hysteresis high alarm	
6104	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit
3.1.43.8 Digital pulse inputs Pulse channel 8		
6106	Signal type	0=Flow l/s,1=m3/h,2=Energy,3=rain,4=own unit/s, 5=own unit/h
6107	Calibration value (l,m3,kWh,mm)	0.001 units/pulse or 0.1 pulses/unit
6108	Input on Digital in index.	(0-15)
6109 + 6110	Set point high alarm	0.1 (l/s,m3/h,kW,l/s*ha)
6111	Hysteresis high alarm	
6112	Select units/pulse or pulses/unit	0=units/pulse, 1=pulses/unit
3.1.44 Configuration of main menu (Check reg. 8992 for additional parameters)		
6114	Select no of values / toggle	0=Klock +3 values, 1=4 values, 2-10=Time + toggle 2-10 values
6115	Signal type row/value 1	
6116	Signal index row/value 1	
6117	Signal type row/value 2	
6118	Signal index row/value 2	
6119	Signal type row/value 3	
6120	Signal index row/value 3	

Register no	Description	Scale factor / unit / note
6121	Signal type row/value 4	
6122	Signal index row/value 4	
6123	Display time each value if toggle	1-9 sec.
3.1.45 Configuration day/night timer 1-4		
6124	Normal time Pump pit 1	min from midnight (0-1439)
6125	Night time Pump pit 1	min from midnight (0-1439)
6126	Normal time Pump pit 2	min from midnight (0-1439)
6127	Night time Pump pit 2	min from midnight (0-1439)
6128	Normal time Pump pit 3	min from midnight (0-1439)
6129	Night time Pump pit 3	min from midnight (0-1439)
6130	Normal time Pump pit 4	min from midnight (0-1439)
6131	Night time Pump pit 4	min from midnight (0-1439)
3.1.46 Configuration day/night timer 5-8		
6132	Normal time Timer 5	min from midnight (0-1439)
6133	Night time Timer 5	min from midnight (0-1439)
6134	Normal time Timer 6	min from midnight (0-1439)
6135	Night time Timer 6	min from midnight (0-1439)
6136	Normal time Timer 7	min from midnight (0-1439)
6137	Night time Timer 7	min from midnight (0-1439)
6138	Normal time Timer 8	min from midnight (0-1439)
6139	Night time Timer 8	min from midnight (0-1439)
3.1.47 Configuration overflow PP. 1-4		
3.1.47.1 Configuration overflow PP. 1		
6144	Disable during config	Always 0
6145	IO-module for flow channel	0-4
6146	AI-number for flow channel	0-3
6147	Exponent	0.001
6148	Constant	0.001
6149 + 6150	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6151 + 6152	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6153 + 6154	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6155 + 6156	Table value H 1	0.001
6157 + 6158	Table value Q 2	0.001 l/s
6159 + 6160	Table value H 2	0.001 m
6161 + 6162	Table value Q 3	0.001 l/s
6163 + 6164	Table value H 3	0.001 m
6165 + 6166	Table value Q 4	0.001 l/s
6167 + 6168	Table value H 4	0.001 m
6169 + 6170	Table value Q 5	0.001 l/s
6171 + 6172	Table value H 5	0.001 m
6173 + 6174	Table value Q 6	0.001 l/s
6175 + 6176	Table value H 6	0.001 m
6177 + 6178	Table value Q 7	0.001 l/s
6179 + 6180	Table value H 7	0.001 m
6181 + 6182	Table value Q 8	0.001 l/s
6183 + 6184	Table value H 8	0.001 m
6185 + 6186	Table value Q 9	0.001 l/s
6187 + 6188	Table value H 9	0.001 m
6189 + 6190	Table value Q 10	0.001 l/s
6191 + 6192	Table value H 10	0.001 m
6193 + 6194	Table value Q 11	0.001 l/s
6195 + 6196	Table value H 11	0.001 m
6197 + 6198	Table value Q 12	0.001 l/s
6199 + 6200	Table value H 12	0.001 m

Register no	Description	Scale factor / unit / note
6201 + 6202	Table value Q 13	0.001 l/s
6203 + 6204	Table value H 13	0.001 m
6205 + 6206	Table value Q 14	0.001 l/s
6207 + 6208	Table value H 14	0.001 m
6209 + 6210	Table value Q 15	0.001 l/s
6211 + 6212	Table value H 15	0.001 m
6213 + 6214	Table value Q 16	0.001 l/s
6215 + 6216	Table value H 16	0.001 m
6217 + 6218	Set point high flow	0.1 l/s
6219	Hysteresis high flow	0.1 l/s
6221	Weir type	Check if valid with read after write

3.1.47.2 Configuration overflow PP. 2

6224	Disable during config	Always 0
6225	IO-module for flow channel	0-4
6226	AI-number for flow channel	0-3
6227	Exponent	0.001
6228	Constant	0.001
6229 + 6230	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6231 + 6232	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6233 + 6234	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6235 + 6236	Table value H 1	0.001
6237 + 6238	Table value Q 2	0.001 l/s
6239 + 6240	Table value H 2	0.001 m
6241 + 6242	Table value Q 3	0.001 l/s
6243 + 6244	Table value H 3	0.001 m
6245 + 6246	Table value Q 4	0.001 l/s
6247 + 6248	Table value H 4	0.001 m
6249 + 6250	Table value Q 5	0.001 l/s
6251 + 6252	Table value H 5	0.001 m
6253 + 6254	Table value Q 6	0.001 l/s
6255 + 6256	Table value H 6	0.001 m
6257 + 6258	Table value Q 7	0.001 l/s
6259 + 6260	Table value H 7	0.001 m
6261 + 6262	Table value Q 8	0.001 l/s
6263 + 6264	Table value H 8	0.001 m
6265 + 6266	Table value Q 9	0.001 l/s
6267 + 6268	Table value H 9	0.001 m
6269 + 6270	Table value Q 10	0.001 l/s
6271 + 6272	Table value H 10	0.001 m
6273 + 6274	Table value Q 11	0.001 l/s
6275 + 6276	Table value H 11	0.001 m
6277 + 6278	Table value Q 12	0.001 l/s
6279 + 6280	Table value H 12	0.001 m
6281 + 6282	Table value Q 13	0.001 l/s
6283 + 6284	Table value H 13	0.001 m
6285 + 6286	Table value Q 14	0.001 l/s
6287 + 6288	Table value H 14	0.001 m
6289 + 6290	Table value Q 15	0.001 l/s
6291 + 6292	Table value H 15	0.001 m
6293 + 6294	Table value Q 16	0.001 l/s
6295 + 6296	Table value H 16	0.001 m
6297 + 6298	Set point high flow	0.1 l/s
6299	Hysteresis high flow	0.1 l/s
6301	Weir type	Check if valid with read after write

3.1.47.3 Configuration overflow PP. 3

6304	Disable during config	Always 0
6305	IO-module for flow channel	0-4

Register no	Description	Scale factor / unit / note
6306	AI-number for flow channel	0-3
6307	Exponent	0.001
6308	Constant	0.001
6309 + 6310	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6311 + 6312	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6313 + 6314	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6315 + 6316	Table value H 1	0.001
6317 + 6318	Table value Q 2	0.001 l/s
6319 + 6320	Table value H 2	0.001 m
6321 + 6322	Table value Q 3	0.001 l/s
6323 + 6324	Table value H 3	0.001 m
6325 + 6326	Table value Q 4	0.001 l/s
6327 + 6328	Table value H 4	0.001 m
6329 + 6330	Table value Q 5	0.001 l/s
6331 + 6332	Table value H 5	0.001 m
6333 + 6334	Table value Q 6	0.001 l/s
6335 + 6336	Table value H 6	0.001 m
6337 + 6338	Table value Q 7	0.001 l/s
6339 + 6340	Table value H 7	0.001 m
6341 + 6342	Table value Q 8	0.001 l/s
6343 + 6344	Table value H 8	0.001 m
6345 + 6346	Table value Q 9	0.001 l/s
6347 + 6348	Table value H 9	0.001 m
6349 + 6350	Table value Q 10	0.001 l/s
6351 + 6352	Table value H 10	0.001 m
6353 + 6354	Table value Q 11	0.001 l/s
6355 + 6356	Table value H 11	0.001 m
6357 + 6358	Table value Q 12	0.001 l/s
6359 + 6360	Table value H 12	0.001 m
6361 + 6362	Table value Q 13	0.001 l/s
6363 + 6364	Table value H 13	0.001 m
6365 + 6366	Table value Q 14	0.001 l/s
6367 + 6368	Table value H 14	0.001 m
6369 + 6370	Table value Q 15	0.001 l/s
6371 + 6372	Table value H 15	0.001 m
6373 + 6374	Table value Q 16	0.001 l/s
6375 + 6376	Table value H 16	0.001 m
6377 + 6378	Set point high flow	0.1 l/s
6379	Hysteresis high flow	0.1 l/s
6381	Weir type	Check if valid with read after write

3.1.47.4 Configuration overflow PP. 4

6384	Disable during config	Always 0
6385	IO-module for flow channel	0-4
6386	AI-number for flow channel	0-3
6387	Exponent	0.001
6388	Constant	0.001
6389 + 6390	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6391 + 6392	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6393 + 6394	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6395 + 6396	Table value H 1	0.001
6397 + 6398	Table value Q 2	0.001 l/s
6399 + 6400	Table value H 2	0.001 m
6401 + 6402	Table value Q 3	0.001 l/s
6403 + 6404	Table value H 3	0.001 m
6405 + 6406	Table value Q 4	0.001 l/s
6407 + 6408	Table value H 4	0.001 m
6409 + 6410	Table value Q 5	0.001 l/s
6411 + 6412	Table value H 5	0.001 m
6413 + 6414	Table value Q 6	0.001 l/s

Register no	Description	Scale factor / unit / note
6415 + 6416	Table value H 6	0.001 m
6417 + 6418	Table value Q 7	0.001 l/s
6419 + 6420	Table value H 7	0.001 m
6421 + 6422	Table value Q 8	0.001 l/s
6423 + 6424	Table value H 8	0.001 m
6425 + 6426	Table value Q 9	0.001 l/s
6427 + 6428	Table value H 9	0.001 m
6429 + 6430	Table value Q 10	0.001 l/s
6431 + 6432	Table value H 10	0.001 m
6433 + 6434	Table value Q 11	0.001 l/s
6435 + 6436	Table value H 11	0.001 m
6437 + 6438	Table value Q 12	0.001 l/s
6439 + 6440	Table value H 12	0.001 m
6441 + 6442	Table value Q 13	0.001 l/s
6443 + 6444	Table value H 13	0.001 m
6445 + 6446	Table value Q 14	0.001 l/s
6447 + 6448	Table value H 14	0.001 m
6449 + 6450	Table value Q 15	0.001 l/s
6451 + 6452	Table value H 15	0.001 m
6453 + 6454	Table value Q 16	0.001 l/s
6455 + 6456	Table value H 16	0.001 m
6457 + 6458	Set point high flow	0.1 l/s
6459	Hysteresis high flow	0.1 l/s
6461	Weir type	Check if valid with read after write

3.1.48 Configuration flow meter 1-4

3.1.48.1 Configuration flow meter 1-4

6464	Disable during config	Always 0
6465	IO-module for flow channel	0-4
6466	AI-number for flow channel	0-3
6467	Exponent	0.001
6468	Constant	0.001
6469 + 6470	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6471 + 6472	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6473 + 6474	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6475 + 6476	Table value H 1	0.001
6477 + 6478	Table value Q 2	0.001 l/s
6479 + 6480	Table value H 2	0.001 m
6481 + 6482	Table value Q 3	0.001 l/s
6483 + 6484	Table value H 3	0.001 m
6485 + 6486	Table value Q 4	0.001 l/s
6487 + 6488	Table value H 4	0.001 m
6489 + 6490	Table value Q 5	0.001 l/s
6491 + 6492	Table value H 5	0.001 m
6493 + 6494	Table value Q 6	0.001 l/s
6495 + 6496	Table value H 6	0.001 m
6497 + 6498	Table value Q 7	0.001 l/s
6499 + 6500	Table value H 7	0.001 m
6501 + 6502	Table value Q 8	0.001 l/s
6503 + 6504	Table value H 8	0.001 m
6505 + 6506	Table value Q 9	0.001 l/s
6507 + 6508	Table value H 9	0.001 m
6509 + 6510	Table value Q 10	0.001 l/s
6511 + 6512	Table value H 10	0.001 m
6513 + 6514	Table value Q 11	0.001 l/s
6515 + 6516	Table value H 11	0.001 m
6517 + 6518	Table value Q 12	0.001 l/s
6519 + 6520	Table value H 12	0.001 m
6521 + 6522	Table value Q 13	0.001 l/s

Register no	Description	Scale factor / unit / note
6523 + 6524	Table value H 13	0.001 m
6525 + 6526	Table value Q 14	0.001 l/s
6527 + 6528	Table value H 14	0.001 m
6529 + 6530	Table value Q 15	0.001 l/s
6531 + 6532	Table value H 15	0.001 m
6533 + 6534	Table value Q 16	0.001 l/s
6535 + 6536	Table value H 16	0.001 m
6537 + 6538	Set point high flow	0.1 l/s
6539	Hysteresis high flow	0.1 l/s
6541	Weir type	Check if valid with read after write

3.1.48.2 Configuration flow meter 2

6544	Disable during config	Always 0
6545	IO-module for flow channel	0-4
6546	AI-number for flow channel	0-3
6547	Exponent	0.001
6548	Constant	0.001
6549 + 6550	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6551 + 6552	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6553 + 6554	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6555 + 6556	Table value H 1	0.001
6557 + 6558	Table value Q 2	0.001 l/s
6559 + 6560	Table value H 2	0.001 m
6561 + 6562	Table value Q 3	0.001 l/s
6563 + 6564	Table value H 3	0.001 m
6565 + 6566	Table value Q 4	0.001 l/s
6567 + 6568	Table value H 4	0.001 m
6569 + 6570	Table value Q 5	0.001 l/s
6571 + 6572	Table value H 5	0.001 m
6573 + 6574	Table value Q 6	0.001 l/s
6575 + 6576	Table value H 6	0.001 m
6577 + 6578	Table value Q 7	0.001 l/s
6579 + 6580	Table value H 7	0.001 m
6581 + 6582	Table value Q 8	0.001 l/s
6583 + 6584	Table value H 8	0.001 m
6585 + 6586	Table value Q 9	0.001 l/s
6587 + 6588	Table value H 9	0.001 m
6589 + 6590	Table value Q 10	0.001 l/s
6591 + 6592	Table value H 10	0.001 m
6593 + 6594	Table value Q 11	0.001 l/s
6595 + 6596	Table value H 11	0.001 m
6597 + 6598	Table value Q 12	0.001 l/s
6599 + 6600	Table value H 12	0.001 m
6601 + 6602	Table value Q 13	0.001 l/s
6603 + 6604	Table value H 13	0.001 m
6605 + 6606	Table value Q 14	0.001 l/s
6607 + 6608	Table value H 14	0.001 m
6609 + 6610	Table value Q 15	0.001 l/s
6611 + 6612	Table value H 15	0.001 m
6613 + 6614	Table value Q 16	0.001 l/s
6615 + 6616	Table value H 16	0.001 m
6617 + 6618	Set point high flow	0.1 l/s
6619	Hysteresis high flow	0.1 l/s
6621	Weir type	Check if valid with read after write

3.1.48.3 Configuration flow meter 3

6624	Disable during config	Always 0
6625	IO-module for flow channel	0-4
6626	AI-number for flow channel	0-3

Register no	Description	Scale factor / unit / note
6627	Exponent	0.001
6628	Constant	0.001
6629 + 6630	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6631 + 6632	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6633 + 6634	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6635 + 6636	Table value H 1	0.001
6637 + 6638	Table value Q 2	0.001 l/s
6639 + 6640	Table value H 2	0.001 m
6641 + 6642	Table value Q 3	0.001 l/s
6643 + 6644	Table value H 3	0.001 m
6645 + 6646	Table value Q 4	0.001 l/s
6647 + 6648	Table value H 4	0.001 m
6649 + 6650	Table value Q 5	0.001 l/s
6651 + 6652	Table value H 5	0.001 m
6653 + 6654	Table value Q 6	0.001 l/s
6655 + 6656	Table value H 6	0.001 m
6657 + 6658	Table value Q 7	0.001 l/s
6659 + 6660	Table value H 7	0.001 m
6661 + 6662	Table value Q 8	0.001 l/s
6663 + 6664	Table value H 8	0.001 m
6665 + 6666	Table value Q 9	0.001 l/s
6667 + 6668	Table value H 9	0.001 m
6669 + 6670	Table value Q 10	0.001 l/s
6671 + 6672	Table value H 10	0.001 m
6673 + 6674	Table value Q 11	0.001 l/s
6675 + 6676	Table value H 11	0.001 m
6677 + 6678	Table value Q 12	0.001 l/s
6679 + 6680	Table value H 12	0.001 m
6681 + 6682	Table value Q 13	0.001 l/s
6683 + 6684	Table value H 13	0.001 m
6685 + 6686	Table value Q 14	0.001 l/s
6687 + 6688	Table value H 14	0.001 m
6689 + 6690	Table value Q 15	0.001 l/s
6691 + 6692	Table value H 15	0.001 m
6693 + 6694	Table value Q 16	0.001 l/s
6695 + 6696	Table value H 16	0.001 m
6697 + 6698	Set point high flow	0.1 l/s
6699	Hysteresis high flow	0.1 l/s
6701	Weir type	Check if valid with read after write

3.1.48.4 Configuration flow meter 4

6704	Disable during config	Always 0
6705	IO-module for flow channel	0-4
6706	AI-number for flow channel	0-3
6707	Exponent	0.001
6708	Constant	0.001
6709 + 6710	Table value Q 0	0.001 (Angle, Width, Constant 2, IO-module for the speed sensor)
6711 + 6712	Table value H 0	0.001 (Channel width, Exponent 2, Analogue input for speed sensor)
6713 + 6714	Table value Q 1	0.001 (Weir height, Diameter of the pipe (pipe flow measurement))
6715 + 6716	Table value H 1	0.001
6717 + 6718	Table value Q 2	0.001 l/s
6719 + 6720	Table value H 2	0.001 m
6721 + 6722	Table value Q 3	0.001 l/s
6723 + 6724	Table value H 3	0.001 m
6725 + 6726	Table value Q 4	0.001 l/s
6727 + 6728	Table value H 4	0.001 m
6729 + 6730	Table value Q 5	0.001 l/s
6731 + 6732	Table value H 5	0.001 m
6733 + 6734	Table value Q 6	0.001 l/s
6735 + 6736	Table value H 6	0.001 m

Register no	Description	Scale factor / unit / note
6737 + 6738	Table value Q 7	0.001 l/s
6739 + 6740	Table value H 7	0.001 m
6741 + 6742	Table value Q 8	0.001 l/s
6743 + 6744	Table value H 8	0.001 m
6745 + 6746	Table value Q 9	0.001 l/s
6747 + 6748	Table value H 9	0.001 m
6749 + 6750	Table value Q 10	0.001 l/s
6751 + 6752	Table value H 10	0.001 m
6753 + 6754	Table value Q 11	0.001 l/s
6755 + 6756	Table value H 11	0.001 m
6757 + 6758	Table value Q 12	0.001 l/s
6759 + 6760	Table value H 12	0.001 m
6761 + 6762	Table value Q 13	0.001 l/s
6763 + 6764	Table value H 13	0.001 m
6765 + 6766	Table value Q 14	0.001 l/s
6767 + 6768	Table value H 14	0.001 m
6769 + 6770	Table value Q 15	0.001 l/s
6771 + 6772	Table value H 15	0.001 m
6773 + 6774	Table value Q 16	0.001 l/s
6775 + 6776	Table value H 16	0.001 m
6777 + 6778	Set point high flow	0.1 l/s
6779	Hysteresis high flow	0.1 l/s
6781	Weir type	Check if valid with read after write

3.1.49 Configuration digital in IO module 1-8

3.1.49.1 Configuration digital in IO module 1 D.IN 1

6784	Digital in type	
6785	Object number	Pump reference etc.
6786	Normally Open/Closed	0=NO, 1=NC
6787	Local / Remote IO	0=Terminal, 1=IO-bit
6788	IO-bit no for non local input	
6789	Parameter 1	Additional configuration for some IO-functions
6790	Parameter 2	See appendices about D.IN types
6791	Parameter 3	

3.1.49.2 Configuration digital in IO module 1 D.IN 2

6792	Digital in type	
6793	Object number	Pump reference etc.
6794	Normally Open/Closed	0=NO, 1=NC
6795	Local / Remote IO	0=Terminal, 1=IO-bit
6796	IO-bit no for non local input	
6797	Parameter 1	Additional configuration for some IO-functions
6798	Parameter 2	See appendices about D.IN types
6799	Parameter 3	

3.1.49.3 Configuration digital in IO module 1 D.IN 3

6800	Digital in type	
6801	Object number	Pump reference etc.
6802	Normally Open/Closed	0=NO, 1=NC
6803	Local / Remote IO	0=Terminal, 1=IO-bit
6804	IO-bit no for non local input	
6805	Parameter 1	Additional configuration for some IO-functions
6806	Parameter 2	See appendices about D.IN types
6807	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.4 Configuration digital in IO module 1 D.IN 4		
6808	Digital in type	
6809	Object number	Pump reference etc.
6810	Normally Open/Closed	0=NO, 1=NC
6811	Local / Remote IO	0=Terminal, 1=IO-bit
6812	IO-bit no for non local input	
6813	Parameter 1	Additional configuration for some IO-functions
6814	Parameter 2	See appendices about D.IN types
6815	Parameter 3	
3.1.49.5 Configuration digital in IO module 1 D.IN 5		
6816	Digital in type	
6817	Object number	Pump reference etc.
6818	Normally Open/Closed	0=NO, 1=NC
6819	Local / Remote IO	0=Terminal, 1=IO-bit
6820	IO-bit no for non local input	
6821	Parameter 1	Additional configuration for some IO-functions
6822	Parameter 2	See appendices about D.IN types
6823	Parameter 3	
3.1.49.6 Configuration digital in IO module 1 D.IN 6		
6824	Digital in type	
6825	Object number	Pump reference etc.
6826	Normally Open/Closed	0=NO, 1=NC
6827	Local / Remote IO	0=Terminal, 1=IO-bit
6828	IO-bit no for non local input	
6829	Parameter 1	Additional configuration for some IO-functions
6830	Parameter 2	See appendices about D.IN types
6831	Parameter 3	
3.1.49.7 Configuration digital in IO module 1 D.IN 7		
6832	Digital in type	
6833	Object number	Pump reference etc.
6834	Normally Open/Closed	0=NO, 1=NC
6835	Local / Remote IO	0=Terminal, 1=IO-bit
6836	IO-bit no for non local input	
6837	Parameter 1	Additional configuration for some IO-functions
6838	Parameter 2	See appendices about D.IN types
6839	Parameter 3	
3.1.49.8 Configuration digital in IO module 1 D.IN 8		
6840	Digital in type	
6841	Object number	Pump reference etc.
6842	Normally Open/Closed	0=NO, 1=NC
6843	Local / Remote IO	0=Terminal, 1=IO-bit
6844	IO-bit no for non local input	
6845	Parameter 1	Additional configuration for some IO-functions
6846	Parameter 2	See appendices about D.IN types
6847	Parameter 3	
3.1.49.9 Configuration digital in IO module 1 D.IN 9		
6848	Digital in type	
6849	Object number	Pump reference etc.
6850	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
6851	Local / Remote IO	0=Terminal, 1=IO-bit
6852	IO-bit no for non local input	
6853	Parameter 1	Additional configuration for some IO-functions
6854	Parameter 2	See appendices about D.IN types
6855	Parameter 3	

3.1.49.10 Configuration digital in IO module 1 D.IN 10

6856	Digital in type	
6857	Object number	Pump reference etc.
6858	Normally Open/Closed	0=NO, 1=NC
6859	Local / Remote IO	0=Terminal, 1=IO-bit
6860	IO-bit no for non local input	
6861	Parameter 1	Additional configuration for some IO-functions
6862	Parameter 2	See appendices about D.IN types
6863	Parameter 3	

3.1.49.11 Configuration digital in IO module 1 D.IN 11

6864	Digital in type	
6865	Object number	Pump reference etc.
6866	Normally Open/Closed	0=NO, 1=NC
6867	Local / Remote IO	0=Terminal, 1=IO-bit
6868	IO-bit no for non local input	
6869	Parameter 1	Additional configuration for some IO-functions
6870	Parameter 2	See appendices about D.IN types
6871	Parameter 3	

3.1.49.12 Configuration digital in IO module 1 D.IN 12

6872	Digital in type	
6873	Object number	Pump reference etc.
6874	Normally Open/Closed	0=NO, 1=NC
6875	Local / Remote IO	0=Terminal, 1=IO-bit
6876	IO-bit no for non local input	
6877	Parameter 1	Additional configuration for some IO-functions
6878	Parameter 2	See appendices about D.IN types
6879	Parameter 3	

3.1.49.13 Configuration digital in IO module 1 D.IN 13

6880	Digital in type	
6881	Object number	Pump reference etc.
6882	Normally Open/Closed	0=NO, 1=NC
6883	Local / Remote IO	0=Terminal, 1=IO-bit
6884	IO-bit no for non local input	
6885	Parameter 1	Additional configuration for some IO-functions
6886	Parameter 2	See appendices about D.IN types
6887	Parameter 3	

3.1.49.14 Configuration digital in IO module 1 D.IN 14

6888	Digital in type	
6889	Object number	Pump reference etc.
6890	Normally Open/Closed	0=NO, 1=NC
6891	Local / Remote IO	0=Terminal, 1=IO-bit
6892	IO-bit no for non local input	
6893	Parameter 1	Additional configuration for some IO-functions
6894	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
6895	Parameter 3	
3.1.49.15 Configuration digital in IO module 1 D.IN 15		
6896	Digital in type	
6897	Object number	Pump reference etc.
6898	Normally Open/Closed	0=NO, 1=NC
6899	Local / Remote IO	0=Terminal, 1=IO-bit
6900	IO-bit no for non local input	
6901	Parameter 1	Additional configuration for some IO-functions
6902	Parameter 2	See appendices about D.IN types
6903	Parameter 3	
3.1.49.16 Configuration digital in IO module 1 D.IN 16		
6904	Digital in type	
6905	Object number	Pump reference etc.
6906	Normally Open/Closed	0=NO, 1=NC
6907	Local / Remote IO	0=Terminal, 1=IO-bit
6908	IO-bit no for non local input	
6909	Parameter 1	Additional configuration for some IO-functions
6910	Parameter 2	See appendices about D.IN types
6911	Parameter 3	
3.1.49.17 Configuration digital in IO module 2 D.IN 1		
6912	Digital in type	
6913	Object number	Pump reference etc.
6914	Normally Open/Closed	0=NO, 1=NC
6915	Local / Remote IO	0=Terminal, 1=IO-bit
6916	IO-bit no for non local input	
6917	Parameter 1	Additional configuration for some IO-functions
6918	Parameter 2	See appendices about D.IN types
6919	Parameter 3	
3.1.49.18 Configuration digital in IO module 2 D.IN 2		
6920	Digital in type	
6921	Object number	Pump reference etc.
6922	Normally Open/Closed	0=NO, 1=NC
6923	Local / Remote IO	0=Terminal, 1=IO-bit
6924	IO-bit no for non local input	
6925	Parameter 1	Additional configuration for some IO-functions
6926	Parameter 2	See appendices about D.IN types
6927	Parameter 3	
3.1.49.19 Configuration digital in IO module 2 D.IN 3		
6928	Digital in type	
6929	Object number	Pump reference etc.
6930	Normally Open/Closed	0=NO, 1=NC
6931	Local / Remote IO	0=Terminal, 1=IO-bit
6932	IO-bit no for non local input	
6933	Parameter 1	Additional configuration for some IO-functions
6934	Parameter 2	See appendices about D.IN types
6935	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.20 Configuration digital in IO module 2 D.IN 4		
6936	Digital in type	
6937	Object number	Pump reference etc.
6938	Normally Open/Closed	0=NO, 1=NC
6939	Local / Remote IO	0=Terminal, 1=IO-bit
6940	IO-bit no for non local input	
6941	Parameter 1	Additional configuration for some IO-functions
6942	Parameter 2	See appendices about D.IN types
6943	Parameter 3	

3.1.49.21 Configuration digital in IO module 2 D.IN 5

6944	Digital in type	
6945	Object number	Pump reference etc.
6946	Normally Open/Closed	0=NO, 1=NC
6947	Local / Remote IO	0=Terminal, 1=IO-bit
6948	IO-bit no for non local input	
6949	Parameter 1	Additional configuration for some IO-functions
6950	Parameter 2	See appendices about D.IN types
6951	Parameter 3	

3.1.49.22 Configuration digital in IO module 2 D.IN 6

6952	Digital in type	
6953	Object number	Pump reference etc.
6954	Normally Open/Closed	0=NO, 1=NC
6955	Local / Remote IO	0=Terminal, 1=IO-bit
6956	IO-bit no for non local input	
6957	Parameter 1	Additional configuration for some IO-functions
6958	Parameter 2	See appendices about D.IN types
6959	Parameter 3	

3.1.49.23 Configuration digital in IO module 2 D.IN 7

6960	Digital in type	
6961	Object number	Pump reference etc.
6962	Normally Open/Closed	0=NO, 1=NC
6963	Local / Remote IO	0=Terminal, 1=IO-bit
6964	IO-bit no for non local input	
6965	Parameter 1	Additional configuration for some IO-functions
6966	Parameter 2	See appendices about D.IN types
6967	Parameter 3	

3.1.49.24 Configuration digital in IO module 2 D.IN 8

6968	Digital in type	
6969	Object number	Pump reference etc.
6970	Normally Open/Closed	0=NO, 1=NC
6971	Local / Remote IO	0=Terminal, 1=IO-bit
6972	IO-bit no for non local input	
6973	Parameter 1	Additional configuration for some IO-functions
6974	Parameter 2	See appendices about D.IN types
6975	Parameter 3	

3.1.49.25 Configuration digital in IO module 2 D.IN 9

6976	Digital in type	
6977	Object number	Pump reference etc.
6978	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
6979	Local / Remote IO	0=Terminal, 1=IO-bit
6980	IO-bit no for non local input	
6981	Parameter 1	Additional configuration for some IO-functions
6982	Parameter 2	See appendices about D.IN types
6983	Parameter 3	

3.1.49.26 Configuration digital in IO module 2 D.IN 10

6984	Digital in type	
6985	Object number	Pump reference etc.
6986	Normally Open/Closed	0=NO, 1=NC
6987	Local / Remote IO	0=Terminal, 1=IO-bit
6988	IO-bit no for non local input	
6989	Parameter 1	Additional configuration for some IO-functions
6990	Parameter 2	See appendices about D.IN types
6991	Parameter 3	

3.1.49.27 Configuration digital in IO module 2 D.IN 11

6992	Digital in type	
6993	Object number	Pump reference etc.
6994	Normally Open/Closed	0=NO, 1=NC
6995	Local / Remote IO	0=Terminal, 1=IO-bit
6996	IO-bit no for non local input	
6997	Parameter 1	Additional configuration for some IO-functions
6998	Parameter 2	See appendices about D.IN types
6999	Parameter 3	

3.1.49.28 Configuration digital in IO module 2 D.IN 12

7000	Digital in type	
7001	Object number	Pump reference etc.
7002	Normally Open/Closed	0=NO, 1=NC
7003	Local / Remote IO	0=Terminal, 1=IO-bit
7004	IO-bit no for non local input	
7005	Parameter 1	Additional configuration for some IO-functions
7006	Parameter 2	See appendices about D.IN types
7007	Parameter 3	

3.1.49.29 Configuration digital in IO module 2 D.IN 13

7008	Digital in type	
7009	Object number	Pump reference etc.
7010	Normally Open/Closed	0=NO, 1=NC
7011	Local / Remote IO	0=Terminal, 1=IO-bit
7012	IO-bit no for non local input	
7013	Parameter 1	Additional configuration for some IO-functions
7014	Parameter 2	See appendices about D.IN types
7015	Parameter 3	

3.1.49.30 Configuration digital in IO module 2 D.IN 14

7016	Digital in type	
7017	Object number	Pump reference etc.
7018	Normally Open/Closed	0=NO, 1=NC
7019	Local / Remote IO	0=Terminal, 1=IO-bit
7020	IO-bit no for non local input	
7021	Parameter 1	Additional configuration for some IO-functions
7022	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7023	Parameter 3	
3.1.49.31 Configuration digital in IO module 2 D.IN 15		
7024	Digital in type	
7025	Object number	Pump reference etc.
7026	Normally Open/Closed	0=NO, 1=NC
7027	Local / Remote IO	0=Terminal, 1=IO-bit
7028	IO-bit no for non local input	
7029	Parameter 1	Additional configuration for some IO-functions
7030	Parameter 2	See appendices about D.IN types
7031	Parameter 3	
3.1.49.32 Configuration digital in IO module 2 D.IN 16		
7032	Digital in type	
7033	Object number	Pump reference etc.
7034	Normally Open/Closed	0=NO, 1=NC
7035	Local / Remote IO	0=Terminal, 1=IO-bit
7036	IO-bit no for non local input	
7037	Parameter 1	Additional configuration for some IO-functions
7038	Parameter 2	See appendices about D.IN types
7039	Parameter 3	
3.1.49.33 Configuration digital in IO module 3 D.IN 1		
7040	Digital in type	
7041	Object number	Pump reference etc.
7042	Normally Open/Closed	0=NO, 1=NC
7043	Local / Remote IO	0=Terminal, 1=IO-bit
7044	IO-bit no for non local input	
7045	Parameter 1	Additional configuration for some IO-functions
7046	Parameter 2	See appendices about D.IN types
7047	Parameter 3	
3.1.49.34 Configuration digital in IO module 3 D.IN 2		
7048	Digital in type	
7049	Object number	Pump reference etc.
7050	Normally Open/Closed	0=NO, 1=NC
7051	Local / Remote IO	0=Terminal, 1=IO-bit
7052	IO-bit no for non local input	
7053	Parameter 1	Additional configuration for some IO-functions
7054	Parameter 2	See appendices about D.IN types
7055	Parameter 3	
3.1.49.35 Configuration digital in IO module 3 D.IN 3		
7056	Digital in type	
7057	Object number	Pump reference etc.
7058	Normally Open/Closed	0=NO, 1=NC
7059	Local / Remote IO	0=Terminal, 1=IO-bit
7060	IO-bit no for non local input	
7061	Parameter 1	Additional configuration for some IO-functions
7062	Parameter 2	See appendices about D.IN types
7063	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.36 Configuration digital in IO module 3 D.IN 4		
7064	Digital in type	
7065	Object number	Pump reference etc.
7066	Normally Open/Closed	0=NO, 1=NC
7067	Local / Remote IO	0=Terminal, 1=IO-bit
7068	IO-bit no for non local input	
7069	Parameter 1	Additional configuration for some IO-functions
7070	Parameter 2	See appendices about D.IN types
7071	Parameter 3	

3.1.49.37 Configuration digital in IO module 3 D.IN 5

7072	Digital in type	
7073	Object number	Pump reference etc.
7074	Normally Open/Closed	0=NO, 1=NC
7075	Local / Remote IO	0=Terminal, 1=IO-bit
7076	IO-bit no for non local input	
7077	Parameter 1	Additional configuration for some IO-functions
7078	Parameter 2	See appendices about D.IN types
7079	Parameter 3	

3.1.49.38 Configuration digital in IO module 3 D.IN 6

7080	Digital in type	
7081	Object number	Pump reference etc.
7082	Normally Open/Closed	0=NO, 1=NC
7083	Local / Remote IO	0=Terminal, 1=IO-bit
7084	IO-bit no for non local input	
7085	Parameter 1	Additional configuration for some IO-functions
7086	Parameter 2	See appendices about D.IN types
7087	Parameter 3	

3.1.49.39 Configuration digital in IO module 3 D.IN 7

7088	Digital in type	
7089	Object number	Pump reference etc.
7090	Normally Open/Closed	0=NO, 1=NC
7091	Local / Remote IO	0=Terminal, 1=IO-bit
7092	IO-bit no for non local input	
7093	Parameter 1	Additional configuration for some IO-functions
7094	Parameter 2	See appendices about D.IN types
7095	Parameter 3	

3.1.49.40 Configuration digital in IO module 3 D.IN 8

7096	Digital in type	
7097	Object number	Pump reference etc.
7098	Normally Open/Closed	0=NO, 1=NC
7099	Local / Remote IO	0=Terminal, 1=IO-bit
7100	IO-bit no for non local input	
7101	Parameter 1	Additional configuration for some IO-functions
7102	Parameter 2	See appendices about D.IN types
7103	Parameter 3	

3.1.49.41 Configuration digital in IO module 3 D.IN 9

7104	Digital in type	
7105	Object number	Pump reference etc.
7106	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
7107	Local / Remote IO	0=Terminal, 1=IO-bit
7108	IO-bit no for non local input	
7109	Parameter 1	Additional configuration for some IO-functions
7110	Parameter 2	See appendices about D.IN types
7111	Parameter 3	

3.1.49.42 Configuration digital in IO module 3 D.IN 10

7112	Digital in type	
7113	Object number	Pump reference etc.
7114	Normally Open/Closed	0=NO, 1=NC
7115	Local / Remote IO	0=Terminal, 1=IO-bit
7116	IO-bit no for non local input	
7117	Parameter 1	Additional configuration for some IO-functions
7118	Parameter 2	See appendices about D.IN types
7119	Parameter 3	

3.1.49.43 Configuration digital in IO module 3 D.IN 11

7120	Digital in type	
7121	Object number	Pump reference etc.
7122	Normally Open/Closed	0=NO, 1=NC
7123	Local / Remote IO	0=Terminal, 1=IO-bit
7124	IO-bit no for non local input	
7125	Parameter 1	Additional configuration for some IO-functions
7126	Parameter 2	See appendices about D.IN types
7127	Parameter 3	

3.1.49.44 Configuration digital in IO module 3 D.IN 12

7128	Digital in type	
7129	Object number	Pump reference etc.
7130	Normally Open/Closed	0=NO, 1=NC
7131	Local / Remote IO	0=Terminal, 1=IO-bit
7132	IO-bit no for non local input	
7133	Parameter 1	Additional configuration for some IO-functions
7134	Parameter 2	See appendices about D.IN types
7135	Parameter 3	

3.1.49.45 Configuration digital in IO module 3 D.IN 13

7136	Digital in type	
7137	Object number	Pump reference etc.
7138	Normally Open/Closed	0=NO, 1=NC
7139	Local / Remote IO	0=Terminal, 1=IO-bit
7140	IO-bit no for non local input	
7141	Parameter 1	Additional configuration for some IO-functions
7142	Parameter 2	See appendices about D.IN types
7143	Parameter 3	

3.1.49.46 Configuration digital in IO module 3 D.IN 14

7144	Digital in type	
7145	Object number	Pump reference etc.
7146	Normally Open/Closed	0=NO, 1=NC
7147	Local / Remote IO	0=Terminal, 1=IO-bit
7148	IO-bit no for non local input	
7149	Parameter 1	Additional configuration for some IO-functions
7150	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7151	Parameter 3	
3.1.49.47 Configuration digital in IO module 3 D.IN 15		
7152	Digital in type	
7153	Object number	Pump reference etc.
7154	Normally Open/Closed	0=NO, 1=NC
7155	Local / Remote IO	0=Terminal, 1=IO-bit
7156	IO-bit no for non local input	
7157	Parameter 1	Additional configuration for some IO-functions
7158	Parameter 2	See appendices about D.IN types
7159	Parameter 3	
3.1.49.48 Configuration digital in IO module 3 D.IN 16		
7160	Digital in type	
7161	Object number	Pump reference etc.
7162	Normally Open/Closed	0=NO, 1=NC
7163	Local / Remote IO	0=Terminal, 1=IO-bit
7164	IO-bit no for non local input	
7165	Parameter 1	Additional configuration for some IO-functions
7166	Parameter 2	See appendices about D.IN types
7167	Parameter 3	
3.1.49.49 Configuration digital in IO module 4 D.IN 1		
7168	Digital in type	
7169	Object number	Pump reference etc.
7170	Normally Open/Closed	0=NO, 1=NC
7171	Local / Remote IO	0=Terminal, 1=IO-bit
7172	IO-bit no for non local input	
7173	Parameter 1	Additional configuration for some IO-functions
7174	Parameter 2	See appendices about D.IN types
7175	Parameter 3	
3.1.49.50 Configuration digital in IO module 4 D.IN 2		
7176	Digital in type	
7177	Object number	Pump reference etc.
7178	Normally Open/Closed	0=NO, 1=NC
7179	Local / Remote IO	0=Terminal, 1=IO-bit
7180	IO-bit no for non local input	
7181	Parameter 1	Additional configuration for some IO-functions
7182	Parameter 2	See appendices about D.IN types
7183	Parameter 3	
3.1.49.51 Configuration digital in IO module 4 D.IN 3		
7184	Digital in type	
7185	Object number	Pump reference etc.
7186	Normally Open/Closed	0=NO, 1=NC
7187	Local / Remote IO	0=Terminal, 1=IO-bit
7188	IO-bit no for non local input	
7189	Parameter 1	Additional configuration for some IO-functions
7190	Parameter 2	See appendices about D.IN types
7191	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.52 Configuration digital in IO module 4 D.IN 4		
7192	Digital in type	
7193	Object number	Pump reference etc.
7194	Normally Open/Closed	0=NO, 1=NC
7195	Local / Remote IO	0=Terminal, 1=IO-bit
7196	IO-bit no for non local input	
7197	Parameter 1	Additional configuration for some IO-functions
7198	Parameter 2	See appendices about D.IN types
7199	Parameter 3	

3.1.49.53 Configuration digital in IO module 4 D.IN 5

7200	Digital in type	
7201	Object number	Pump reference etc.
7202	Normally Open/Closed	0=NO, 1=NC
7203	Local / Remote IO	0=Terminal, 1=IO-bit
7204	IO-bit no for non local input	
7205	Parameter 1	Additional configuration for some IO-functions
7206	Parameter 2	See appendices about D.IN types
7207	Parameter 3	

3.1.49.54 Configuration digital in IO module 4 D.IN 6

7208	Digital in type	
7209	Object number	Pump reference etc.
7210	Normally Open/Closed	0=NO, 1=NC
7211	Local / Remote IO	0=Terminal, 1=IO-bit
7212	IO-bit no for non local input	
7213	Parameter 1	Additional configuration for some IO-functions
7214	Parameter 2	See appendices about D.IN types
7215	Parameter 3	

3.1.49.55 Configuration digital in IO module 4 D.IN 7

7216	Digital in type	
7217	Object number	Pump reference etc.
7218	Normally Open/Closed	0=NO, 1=NC
7219	Local / Remote IO	0=Terminal, 1=IO-bit
7220	IO-bit no for non local input	
7221	Parameter 1	Additional configuration for some IO-functions
7222	Parameter 2	See appendices about D.IN types
7223	Parameter 3	

3.1.49.56 Configuration digital in IO module 4 D.IN 8

7224	Digital in type	
7225	Object number	Pump reference etc.
7226	Normally Open/Closed	0=NO, 1=NC
7227	Local / Remote IO	0=Terminal, 1=IO-bit
7228	IO-bit no for non local input	
7229	Parameter 1	Additional configuration for some IO-functions
7230	Parameter 2	See appendices about D.IN types
7231	Parameter 3	

3.1.49.57 Configuration digital in IO module 4 D.IN 9

7232	Digital in type	
7233	Object number	Pump reference etc.
7234	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
7235	Local / Remote IO	0=Terminal, 1=IO-bit
7236	IO-bit no for non local input	
7237	Parameter 1	Additional configuration for some IO-functions
7238	Parameter 2	See appendices about D.IN types
7239	Parameter 3	

3.1.49.58 Configuration digital in IO module 4 D.IN 10

7240	Digital in type	
7241	Object number	Pump reference etc.
7242	Normally Open/Closed	0=NO, 1=NC
7243	Local / Remote IO	0=Terminal, 1=IO-bit
7244	IO-bit no for non local input	
7245	Parameter 1	Additional configuration for some IO-functions
7246	Parameter 2	See appendices about D.IN types
7247	Parameter 3	

3.1.49.59 Configuration digital in IO module 4 D.IN 11

7248	Digital in type	
7249	Object number	Pump reference etc.
7250	Normally Open/Closed	0=NO, 1=NC
7251	Local / Remote IO	0=Terminal, 1=IO-bit
7252	IO-bit no for non local input	
7253	Parameter 1	Additional configuration for some IO-functions
7254	Parameter 2	See appendices about D.IN types
7255	Parameter 3	

3.1.49.60 Configuration digital in IO module 4 D.IN 12

7256	Digital in type	
7257	Object number	Pump reference etc.
7258	Normally Open/Closed	0=NO, 1=NC
7259	Local / Remote IO	0=Terminal, 1=IO-bit
7260	IO-bit no for non local input	
7261	Parameter 1	Additional configuration for some IO-functions
7262	Parameter 2	See appendices about D.IN types
7263	Parameter 3	

3.1.49.61 Configuration digital in IO module 4 D.IN 13

7264	Digital in type	
7265	Object number	Pump reference etc.
7266	Normally Open/Closed	0=NO, 1=NC
7267	Local / Remote IO	0=Terminal, 1=IO-bit
7268	IO-bit no for non local input	
7269	Parameter 1	Additional configuration for some IO-functions
7270	Parameter 2	See appendices about D.IN types
7271	Parameter 3	

3.1.49.62 Configuration digital in IO module 4 D.IN 14

7272	Digital in type	
7273	Object number	Pump reference etc.
7274	Normally Open/Closed	0=NO, 1=NC
7275	Local / Remote IO	0=Terminal, 1=IO-bit
7276	IO-bit no for non local input	
7277	Parameter 1	Additional configuration for some IO-functions
7278	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7279	Parameter 3	
3.1.49.63 Configuration digital in IO module 4 D.IN 15		
7280	Digital in type	
7281	Object number	Pump reference etc.
7282	Normally Open/Closed	0=NO, 1=NC
7283	Local / Remote IO	0=Terminal, 1=IO-bit
7284	IO-bit no for non local input	
7285	Parameter 1	Additional configuration for some IO-functions
7286	Parameter 2	See appendices about D.IN types
7287	Parameter 3	
3.1.49.64 Configuration digital in IO module 4 D.IN 16		
7288	Digital in type	
7289	Object number	Pump reference etc.
7290	Normally Open/Closed	0=NO, 1=NC
7291	Local / Remote IO	0=Terminal, 1=IO-bit
7292	IO-bit no for non local input	
7293	Parameter 1	Additional configuration for some IO-functions
7294	Parameter 2	See appendices about D.IN types
7295	Parameter 3	
3.1.49.65 Configuration digital in IO module 5 D.IN 1		
7296	Digital in type	
7297	Object number	Pump reference etc.
7298	Normally Open/Closed	0=NO, 1=NC
7299	Local / Remote IO	0=Terminal, 1=IO-bit
7300	IO-bit no for non local input	
7301	Parameter 1	Additional configuration for some IO-functions
7302	Parameter 2	See appendices about D.IN types
7303	Parameter 3	
3.1.49.66 Configuration digital in IO module 5 D.IN 2		
7304	Digital in type	
7305	Object number	Pump reference etc.
7306	Normally Open/Closed	0=NO, 1=NC
7307	Local / Remote IO	0=Terminal, 1=IO-bit
7308	IO-bit no for non local input	
7309	Parameter 1	Additional configuration for some IO-functions
7310	Parameter 2	See appendices about D.IN types
7311	Parameter 3	
3.1.49.67 Configuration digital in IO module 5 D.IN 3		
7312	Digital in type	
7313	Object number	Pump reference etc.
7314	Normally Open/Closed	0=NO, 1=NC
7315	Local / Remote IO	0=Terminal, 1=IO-bit
7316	IO-bit no for non local input	
7317	Parameter 1	Additional configuration for some IO-functions
7318	Parameter 2	See appendices about D.IN types
7319	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.68 Configuration digital in IO module 5 D.IN 4		
7320	Digital in type	
7321	Object number	Pump reference etc.
7322	Normally Open/Closed	0=NO, 1=NC
7323	Local / Remote IO	0=Terminal, 1=IO-bit
7324	IO-bit no for non local input	
7325	Parameter 1	Additional configuration for some IO-functions
7326	Parameter 2	See appendices about D.IN types
7327	Parameter 3	

3.1.49.69 Configuration digital in IO module 5 D.IN 5

7328	Digital in type	
7329	Object number	Pump reference etc.
7330	Normally Open/Closed	0=NO, 1=NC
7331	Local / Remote IO	0=Terminal, 1=IO-bit
7332	IO-bit no for non local input	
7333	Parameter 1	Additional configuration for some IO-functions
7334	Parameter 2	See appendices about D.IN types
7335	Parameter 3	

3.1.49.70 Configuration digital in IO module 5 D.IN 6

7336	Digital in type	
7337	Object number	Pump reference etc.
7338	Normally Open/Closed	0=NO, 1=NC
7339	Local / Remote IO	0=Terminal, 1=IO-bit
7340	IO-bit no for non local input	
7341	Parameter 1	Additional configuration for some IO-functions
7342	Parameter 2	See appendices about D.IN types
7343	Parameter 3	

3.1.49.71 Configuration digital in IO module 5 D.IN 7

7344	Digital in type	
7345	Object number	Pump reference etc.
7346	Normally Open/Closed	0=NO, 1=NC
7347	Local / Remote IO	0=Terminal, 1=IO-bit
7348	IO-bit no for non local input	
7349	Parameter 1	Additional configuration for some IO-functions
7350	Parameter 2	See appendices about D.IN types
7351	Parameter 3	

3.1.49.72 Configuration digital in IO module 5 D.IN 8

7352	Digital in type	
7353	Object number	Pump reference etc.
7354	Normally Open/Closed	0=NO, 1=NC
7355	Local / Remote IO	0=Terminal, 1=IO-bit
7356	IO-bit no for non local input	
7357	Parameter 1	Additional configuration for some IO-functions
7358	Parameter 2	See appendices about D.IN types
7359	Parameter 3	

3.1.49.73 Configuration digital in IO module 5 D.IN 9

7360	Digital in type	
7361	Object number	Pump reference etc.
7362	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
7363	Local / Remote IO	0=Terminal, 1=IO-bit
7364	IO-bit no for non local input	
7365	Parameter 1	Additional configuration for some IO-functions
7366	Parameter 2	See appendices about D.IN types
7367	Parameter 3	

3.1.49.74 Configuration digital in IO module 5 D.IN 10

7368	Digital in type	
7369	Object number	Pump reference etc.
7370	Normally Open/Closed	0=NO, 1=NC
7371	Local / Remote IO	0=Terminal, 1=IO-bit
7372	IO-bit no for non local input	
7373	Parameter 1	Additional configuration for some IO-functions
7374	Parameter 2	See appendices about D.IN types
7375	Parameter 3	

3.1.49.75 Configuration digital in IO module 5 D.IN 11

7376	Digital in type	
7377	Object number	Pump reference etc.
7378	Normally Open/Closed	0=NO, 1=NC
7379	Local / Remote IO	0=Terminal, 1=IO-bit
7380	IO-bit no for non local input	
7381	Parameter 1	Additional configuration for some IO-functions
7382	Parameter 2	See appendices about D.IN types
7383	Parameter 3	

3.1.49.76 Configuration digital in IO module 5 D.IN 12

7384	Digital in type	
7385	Object number	Pump reference etc.
7386	Normally Open/Closed	0=NO, 1=NC
7387	Local / Remote IO	0=Terminal, 1=IO-bit
7388	IO-bit no for non local input	
7389	Parameter 1	Additional configuration for some IO-functions
7390	Parameter 2	See appendices about D.IN types
7391	Parameter 3	

3.1.49.77 Configuration digital in IO module 5 D.IN 13

7392	Digital in type	
7393	Object number	Pump reference etc.
7394	Normally Open/Closed	0=NO, 1=NC
7395	Local / Remote IO	0=Terminal, 1=IO-bit
7396	IO-bit no for non local input	
7397	Parameter 1	Additional configuration for some IO-functions
7398	Parameter 2	See appendices about D.IN types
7399	Parameter 3	

3.1.49.78 Configuration digital in IO module 5 D.IN 14

7400	Digital in type	
7401	Object number	Pump reference etc.
7402	Normally Open/Closed	0=NO, 1=NC
7403	Local / Remote IO	0=Terminal, 1=IO-bit
7404	IO-bit no for non local input	
7405	Parameter 1	Additional configuration for some IO-functions
7406	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7407	Parameter 3	
3.1.49.79 Configuration digital in IO module 5 D.IN 15		
7408	Digital in type	
7409	Object number	Pump reference etc.
7410	Normally Open/Closed	0=NO, 1=NC
7411	Local / Remote IO	0=Terminal, 1=IO-bit
7412	IO-bit no for non local input	
7413	Parameter 1	Additional configuration for some IO-functions
7414	Parameter 2	See appendices about D.IN types
7415	Parameter 3	
3.1.49.80 Configuration digital in IO module 5 D.IN 16		
7416	Digital in type	
7417	Object number	Pump reference etc.
7418	Normally Open/Closed	0=NO, 1=NC
7419	Local / Remote IO	0=Terminal, 1=IO-bit
7420	IO-bit no for non local input	
7421	Parameter 1	Additional configuration for some IO-functions
7422	Parameter 2	See appendices about D.IN types
7423	Parameter 3	
3.1.49.81 Configuration digital in IO module 6 D.IN 1		
7424	Digital in type	
7425	Object number	Pump reference etc.
7426	Normally Open/Closed	0=NO, 1=NC
7427	Local / Remote IO	0=Terminal, 1=IO-bit
7428	IO-bit no for non local input	
7429	Parameter 1	Additional configuration for some IO-functions
7430	Parameter 2	See appendices about D.IN types
7431	Parameter 3	
3.1.49.82 Configuration digital in IO module 6 D.IN 2		
7432	Digital in type	
7433	Object number	Pump reference etc.
7434	Normally Open/Closed	0=NO, 1=NC
7435	Local / Remote IO	0=Terminal, 1=IO-bit
7436	IO-bit no for non local input	
7437	Parameter 1	Additional configuration for some IO-functions
7438	Parameter 2	See appendices about D.IN types
7439	Parameter 3	
3.1.49.83 Configuration digital in IO module 6 D.IN 3		
7440	Digital in type	
7441	Object number	Pump reference etc.
7442	Normally Open/Closed	0=NO, 1=NC
7443	Local / Remote IO	0=Terminal, 1=IO-bit
7444	IO-bit no for non local input	
7445	Parameter 1	Additional configuration for some IO-functions
7446	Parameter 2	See appendices about D.IN types
7447	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.84 Configuration digital in IO module 6 D.IN 4		
7448	Digital in type	
7449	Object number	Pump reference etc.
7450	Normally Open/Closed	0=NO, 1=NC
7451	Local / Remote IO	0=Terminal, 1=IO-bit
7452	IO-bit no for non local input	
7453	Parameter 1	Additional configuration for some IO-functions
7454	Parameter 2	See appendices about D.IN types
7455	Parameter 3	

3.1.49.85 Configuration digital in IO module 6 D.IN 5

7456	Digital in type	
7457	Object number	Pump reference etc.
7458	Normally Open/Closed	0=NO, 1=NC
7459	Local / Remote IO	0=Terminal, 1=IO-bit
7460	IO-bit no for non local input	
7461	Parameter 1	Additional configuration for some IO-functions
7462	Parameter 2	See appendices about D.IN types
7463	Parameter 3	

3.1.49.86 Configuration digital in IO module 6 D.IN 6

7464	Digital in type	
7465	Object number	Pump reference etc.
7466	Normally Open/Closed	0=NO, 1=NC
7467	Local / Remote IO	0=Terminal, 1=IO-bit
7468	IO-bit no for non local input	
7469	Parameter 1	Additional configuration for some IO-functions
7470	Parameter 2	See appendices about D.IN types
7471	Parameter 3	

3.1.49.87 Configuration digital in IO module 6 D.IN 7

7472	Digital in type	
7473	Object number	Pump reference etc.
7474	Normally Open/Closed	0=NO, 1=NC
7475	Local / Remote IO	0=Terminal, 1=IO-bit
7476	IO-bit no for non local input	
7477	Parameter 1	Additional configuration for some IO-functions
7478	Parameter 2	See appendices about D.IN types
7479	Parameter 3	

3.1.49.88 Configuration digital in IO module 6 D.IN 8

7480	Digital in type	
7481	Object number	Pump reference etc.
7482	Normally Open/Closed	0=NO, 1=NC
7483	Local / Remote IO	0=Terminal, 1=IO-bit
7484	IO-bit no for non local input	
7485	Parameter 1	Additional configuration for some IO-functions
7486	Parameter 2	See appendices about D.IN types
7487	Parameter 3	

3.1.49.89 Configuration digital in IO module 6 D.IN 9

7488	Digital in type	
7489	Object number	Pump reference etc.
7490	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
7491	Local / Remote IO	0=Terminal, 1=IO-bit
7492	IO-bit no for non local input	
7493	Parameter 1	Additional configuration for some IO-functions
7494	Parameter 2	See appendices about D.IN types
7495	Parameter 3	

3.1.49.90 Configuration digital in IO module 6 D.IN 10

7496	Digital in type	
7497	Object number	Pump reference etc.
7498	Normally Open/Closed	0=NO, 1=NC
7499	Local / Remote IO	0=Terminal, 1=IO-bit
7500	IO-bit no for non local input	
7501	Parameter 1	Additional configuration for some IO-functions
7502	Parameter 2	See appendices about D.IN types
7503	Parameter 3	

3.1.49.91 Configuration digital in IO module 6 D.IN 11

7504	Digital in type	
7505	Object number	Pump reference etc.
7506	Normally Open/Closed	0=NO, 1=NC
7507	Local / Remote IO	0=Terminal, 1=IO-bit
7508	IO-bit no for non local input	
7509	Parameter 1	Additional configuration for some IO-functions
7510	Parameter 2	See appendices about D.IN types
7511	Parameter 3	

3.1.49.92 Configuration digital in IO module 6 D.IN 12

7512	Digital in type	
7513	Object number	Pump reference etc.
7514	Normally Open/Closed	0=NO, 1=NC
7515	Local / Remote IO	0=Terminal, 1=IO-bit
7516	IO-bit no for non local input	
7517	Parameter 1	Additional configuration for some IO-functions
7518	Parameter 2	See appendices about D.IN types
7519	Parameter 3	

3.1.49.93 Configuration digital in IO module 6 D.IN 13

7520	Digital in type	
7521	Object number	Pump reference etc.
7522	Normally Open/Closed	0=NO, 1=NC
7523	Local / Remote IO	0=Terminal, 1=IO-bit
7524	IO-bit no for non local input	
7525	Parameter 1	Additional configuration for some IO-functions
7526	Parameter 2	See appendices about D.IN types
7527	Parameter 3	

3.1.49.94 Configuration digital in IO module 6 D.IN 14

7528	Digital in type	
7529	Object number	Pump reference etc.
7530	Normally Open/Closed	0=NO, 1=NC
7531	Local / Remote IO	0=Terminal, 1=IO-bit
7532	IO-bit no for non local input	
7533	Parameter 1	Additional configuration for some IO-functions
7534	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7535	Parameter 3	
3.1.49.95 Configuration digital in IO module 6 D.IN 15		
7536	Digital in type	
7537	Object number	Pump reference etc.
7538	Normally Open/Closed	0=NO, 1=NC
7539	Local / Remote IO	0=Terminal, 1=IO-bit
7540	IO-bit no for non local input	
7541	Parameter 1	Additional configuration for some IO-functions
7542	Parameter 2	See appendices about D.IN types
7543	Parameter 3	
3.1.49.96 Configuration digital in IO module 6 D.IN 16		
7544	Digital in type	
7545	Object number	Pump reference etc.
7546	Normally Open/Closed	0=NO, 1=NC
7547	Local / Remote IO	0=Terminal, 1=IO-bit
7548	IO-bit no for non local input	
7549	Parameter 1	Additional configuration for some IO-functions
7550	Parameter 2	See appendices about D.IN types
7551	Parameter 3	
3.1.49.97 Configuration digital in IO module 7 D.IN 1		
7552	Digital in type	
7553	Object number	Pump reference etc.
7554	Normally Open/Closed	0=NO, 1=NC
7555	Local / Remote IO	0=Terminal, 1=IO-bit
7556	IO-bit no for non local input	
7557	Parameter 1	Additional configuration for some IO-functions
7558	Parameter 2	See appendices about D.IN types
7559	Parameter 3	
3.1.49.98 Configuration digital in IO module 7 D.IN 2		
7560	Digital in type	
7561	Object number	Pump reference etc.
7562	Normally Open/Closed	0=NO, 1=NC
7563	Local / Remote IO	0=Terminal, 1=IO-bit
7564	IO-bit no for non local input	
7565	Parameter 1	Additional configuration for some IO-functions
7566	Parameter 2	See appendices about D.IN types
7567	Parameter 3	
3.1.49.99 Configuration digital in IO module 7 D.IN 3		
7568	Digital in type	
7569	Object number	Pump reference etc.
7570	Normally Open/Closed	0=NO, 1=NC
7571	Local / Remote IO	0=Terminal, 1=IO-bit
7572	IO-bit no for non local input	
7573	Parameter 1	Additional configuration for some IO-functions
7574	Parameter 2	See appendices about D.IN types
7575	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.100	Configuration digital in IO module 7 D.IN 4	
7576	Digital in type	
7577	Object number	Pump reference etc.
7578	Normally Open/Closed	0=NO, 1=NC
7579	Local / Remote IO	0=Terminal, 1=IO-bit
7580	IO-bit no for non local input	
7581	Parameter 1	Additional configuration for some IO-functions
7582	Parameter 2	See appendices about D.IN types
7583	Parameter 3	
3.1.49.101	Configuration digital in IO module 7 D.IN 5	
7584	Digital in type	
7585	Object number	Pump reference etc.
7586	Normally Open/Closed	0=NO, 1=NC
7587	Local / Remote IO	0=Terminal, 1=IO-bit
7588	IO-bit no for non local input	
7589	Parameter 1	Additional configuration for some IO-functions
7590	Parameter 2	See appendices about D.IN types
7591	Parameter 3	
3.1.49.102	Configuration digital in IO module 7 D.IN 6	
7592	Digital in type	
7593	Object number	Pump reference etc.
7594	Normally Open/Closed	0=NO, 1=NC
7595	Local / Remote IO	0=Terminal, 1=IO-bit
7596	IO-bit no for non local input	
7597	Parameter 1	Additional configuration for some IO-functions
7598	Parameter 2	See appendices about D.IN types
7599	Parameter 3	
3.1.49.103	Configuration digital in IO module 7 D.IN 7	
7600	Digital in type	
7601	Object number	Pump reference etc.
7602	Normally Open/Closed	0=NO, 1=NC
7603	Local / Remote IO	0=Terminal, 1=IO-bit
7604	IO-bit no for non local input	
7605	Parameter 1	Additional configuration for some IO-functions
7606	Parameter 2	See appendices about D.IN types
7607	Parameter 3	
3.1.49.104	Configuration digital in IO module 7 D.IN 8	
7608	Digital in type	
7609	Object number	Pump reference etc.
7610	Normally Open/Closed	0=NO, 1=NC
7611	Local / Remote IO	0=Terminal, 1=IO-bit
7612	IO-bit no for non local input	
7613	Parameter 1	Additional configuration for some IO-functions
7614	Parameter 2	See appendices about D.IN types
7615	Parameter 3	
3.1.49.105	Configuration digital in IO module 7 D.IN 9	
7616	Digital in type	
7617	Object number	Pump reference etc.
7618	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
7619	Local / Remote IO	0=Terminal, 1=IO-bit
7620	IO-bit no for non local input	
7621	Parameter 1	Additional configuration for some IO-functions
7622	Parameter 2	See appendices about D.IN types
7623	Parameter 3	
3.1.49.106	Configuration digital in IO module 7 D.IN 10	
7624	Digital in type	
7625	Object number	Pump reference etc.
7626	Normally Open/Closed	0=NO, 1=NC
7627	Local / Remote IO	0=Terminal, 1=IO-bit
7628	IO-bit no for non local input	
7629	Parameter 1	Additional configuration for some IO-functions
7630	Parameter 2	See appendices about D.IN types
7631	Parameter 3	
3.1.49.107	Configuration digital in IO module 7 D.IN 11	
7632	Digital in type	
7633	Object number	Pump reference etc.
7634	Normally Open/Closed	0=NO, 1=NC
7635	Local / Remote IO	0=Terminal, 1=IO-bit
7636	IO-bit no for non local input	
7637	Parameter 1	Additional configuration for some IO-functions
7638	Parameter 2	See appendices about D.IN types
7639	Parameter 3	
3.1.49.108	Configuration digital in IO module 7 D.IN 12	
7640	Digital in type	
7641	Object number	Pump reference etc.
7642	Normally Open/Closed	0=NO, 1=NC
7643	Local / Remote IO	0=Terminal, 1=IO-bit
7644	IO-bit no for non local input	
7645	Parameter 1	Additional configuration for some IO-functions
7646	Parameter 2	See appendices about D.IN types
7647	Parameter 3	
3.1.49.109	Configuration digital in IO module 7 D.IN 13	
7648	Digital in type	
7649	Object number	Pump reference etc.
7650	Normally Open/Closed	0=NO, 1=NC
7651	Local / Remote IO	0=Terminal, 1=IO-bit
7652	IO-bit no for non local input	
7653	Parameter 1	Additional configuration for some IO-functions
7654	Parameter 2	See appendices about D.IN types
7655	Parameter 3	
3.1.49.110	Configuration digital in IO module 7 D.IN 14	
7656	Digital in type	
7657	Object number	Pump reference etc.
7658	Normally Open/Closed	0=NO, 1=NC
7659	Local / Remote IO	0=Terminal, 1=IO-bit
7660	IO-bit no for non local input	
7661	Parameter 1	Additional configuration for some IO-functions
7662	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7663	Parameter 3	
3.1.49.111 Configuration digital in IO module 7 D.IN 15		
7664	Digital in type	
7665	Object number	Pump reference etc.
7666	Normally Open/Closed	0=NO, 1=NC
7667	Local / Remote IO	0=Terminal, 1=IO-bit
7668	IO-bit no for non local input	
7669	Parameter 1	Additional configuration for some IO-functions
7670	Parameter 2	See appendices about D.IN types
7671	Parameter 3	
3.1.49.112 Configuration digital in IO module 7 D.IN 16		
7672	Digital in type	
7673	Object number	Pump reference etc.
7674	Normally Open/Closed	0=NO, 1=NC
7675	Local / Remote IO	0=Terminal, 1=IO-bit
7676	IO-bit no for non local input	
7677	Parameter 1	Additional configuration for some IO-functions
7678	Parameter 2	See appendices about D.IN types
7679	Parameter 3	
3.1.49.113 Configuration digital in IO module 8 D.IN 1		
7680	Digital in type	
7681	Object number	Pump reference etc.
7682	Normally Open/Closed	0=NO, 1=NC
7683	Local / Remote IO	0=Terminal, 1=IO-bit
7684	IO-bit no for non local input	
7685	Parameter 1	Additional configuration for some IO-functions
7686	Parameter 2	See appendices about D.IN types
7687	Parameter 3	
3.1.49.114 Configuration digital in IO module 8 D.IN 2		
7688	Digital in type	
7689	Object number	Pump reference etc.
7690	Normally Open/Closed	0=NO, 1=NC
7691	Local / Remote IO	0=Terminal, 1=IO-bit
7692	IO-bit no for non local input	
7693	Parameter 1	Additional configuration for some IO-functions
7694	Parameter 2	See appendices about D.IN types
7695	Parameter 3	
3.1.49.115 Configuration digital in IO module 8 D.IN 3		
7696	Digital in type	
7697	Object number	Pump reference etc.
7698	Normally Open/Closed	0=NO, 1=NC
7699	Local / Remote IO	0=Terminal, 1=IO-bit
7700	IO-bit no for non local input	
7701	Parameter 1	Additional configuration for some IO-functions
7702	Parameter 2	See appendices about D.IN types
7703	Parameter 3	

Register no	Description	Scale factor / unit / note
3.1.49.116	Configuration digital in IO module 8 D.IN 4	
7704	Digital in type	
7705	Object number	Pump reference etc.
7706	Normally Open/Closed	0=NO, 1=NC
7707	Local / Remote IO	0=Terminal, 1=IO-bit
7708	IO-bit no for non local input	
7709	Parameter 1	Additional configuration for some IO-functions
7710	Parameter 2	See appendices about D.IN types
7711	Parameter 3	
3.1.49.117	Configuration digital in IO module 8 D.IN 5	
7712	Digital in type	
7713	Object number	Pump reference etc.
7714	Normally Open/Closed	0=NO, 1=NC
7715	Local / Remote IO	0=Terminal, 1=IO-bit
7716	IO-bit no for non local input	
7717	Parameter 1	Additional configuration for some IO-functions
7718	Parameter 2	See appendices about D.IN types
7719	Parameter 3	
3.1.49.118	Configuration digital in IO module 8 D.IN 6	
7720	Digital in type	
7721	Object number	Pump reference etc.
7722	Normally Open/Closed	0=NO, 1=NC
7723	Local / Remote IO	0=Terminal, 1=IO-bit
7724	IO-bit no for non local input	
7725	Parameter 1	Additional configuration for some IO-functions
7726	Parameter 2	See appendices about D.IN types
7727	Parameter 3	
3.1.49.119	Configuration digital in IO module 8 D.IN 7	
7728	Digital in type	
7729	Object number	Pump reference etc.
7730	Normally Open/Closed	0=NO, 1=NC
7731	Local / Remote IO	0=Terminal, 1=IO-bit
7732	IO-bit no for non local input	
7733	Parameter 1	Additional configuration for some IO-functions
7734	Parameter 2	See appendices about D.IN types
7735	Parameter 3	
3.1.49.120	Configuration digital in IO module 8 D.IN 8	
7736	Digital in type	
7737	Object number	Pump reference etc.
7738	Normally Open/Closed	0=NO, 1=NC
7739	Local / Remote IO	0=Terminal, 1=IO-bit
7740	IO-bit no for non local input	
7741	Parameter 1	Additional configuration for some IO-functions
7742	Parameter 2	See appendices about D.IN types
7743	Parameter 3	
3.1.49.121	Configuration digital in IO module 8 D.IN 9	
7744	Digital in type	
7745	Object number	Pump reference etc.
7746	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
7747	Local / Remote IO	0=Terminal, 1=IO-bit
7748	IO-bit no for non local input	
7749	Parameter 1	Additional configuration for some IO-functions
7750	Parameter 2	See appendices about D.IN types
7751	Parameter 3	
3.1.49.122 Configuration digital in IO module 8 D.IN 10		
7752	Digital in type	
7753	Object number	Pump reference etc.
7754	Normally Open/Closed	0=NO, 1=NC
7755	Local / Remote IO	0=Terminal, 1=IO-bit
7756	IO-bit no for non local input	
7757	Parameter 1	Additional configuration for some IO-functions
7758	Parameter 2	See appendices about D.IN types
7759	Parameter 3	
3.1.49.123 Configuration digital in IO module 8 D.IN 11		
7760	Digital in type	
7761	Object number	Pump reference etc.
7762	Normally Open/Closed	0=NO, 1=NC
7763	Local / Remote IO	0=Terminal, 1=IO-bit
7764	IO-bit no for non local input	
7765	Parameter 1	Additional configuration for some IO-functions
7766	Parameter 2	See appendices about D.IN types
7767	Parameter 3	
3.1.49.124 Configuration digital in IO module 8 D.IN 12		
7768	Digital in type	
7769	Object number	Pump reference etc.
7770	Normally Open/Closed	0=NO, 1=NC
7771	Local / Remote IO	0=Terminal, 1=IO-bit
7772	IO-bit no for non local input	
7773	Parameter 1	Additional configuration for some IO-functions
7774	Parameter 2	See appendices about D.IN types
7775	Parameter 3	
3.1.49.125 Configuration digital in IO module 8 D.IN 13		
7776	Digital in type	
7777	Object number	Pump reference etc.
7778	Normally Open/Closed	0=NO, 1=NC
7779	Local / Remote IO	0=Terminal, 1=IO-bit
7780	IO-bit no for non local input	
7781	Parameter 1	Additional configuration for some IO-functions
7782	Parameter 2	See appendices about D.IN types
7783	Parameter 3	
3.1.49.126 Configuration digital in IO module 8 D.IN 14		
7784	Digital in type	
7785	Object number	Pump reference etc.
7786	Normally Open/Closed	0=NO, 1=NC
7787	Local / Remote IO	0=Terminal, 1=IO-bit
7788	IO-bit no for non local input	
7789	Parameter 1	Additional configuration for some IO-functions
7790	Parameter 2	See appendices about D.IN types

Register no	Description	Scale factor / unit / note
7791	Parameter 3	
3.1.49.127 Configuration digital in IO module 8 D.IN 15		
7792	Digital in type	
7793	Object number	Pump reference etc.
7794	Normally Open/Closed	0=NO, 1=NC
7795	Local / Remote IO	0=Terminal, 1=IO-bit
7796	IO-bit no for non local input	
7797	Parameter 1	Additional configuration for some IO-functions
7798	Parameter 2	See appendices about D.IN types
7799	Parameter 3	
3.1.49.128 Configuration digital in IO module 8 D.IN 16		
7800	Digital in type	
7801	Object number	Pump reference etc.
7802	Normally Open/Closed	0=NO, 1=NC
7803	Local / Remote IO	0=Terminal, 1=IO-bit
7804	IO-bit no for non local input	
7805	Parameter 1	Additional configuration for some IO-functions
7806	Parameter 2	See appendices about D.IN types
7807	Parameter 3	
3.1.50 Configuration analogue in IO module 1-8		
3.1.50.1 Configuration analogue in IO module 1 A.IN 1		
7808	Analogue in type	See appendices about IO types
7809	Ramp time 0-100 %	sec
7810	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
7811	Used type for input signal	1=mA,2=AC,3=Freq. etc.
7812 + 7813	Scale value for 0% (0/4 mA)	
7814 + 7815	Scale value for 100% (20 mA)	
7816	Decimal count	0-4
7817	Alternate unit	0/1 ex. l/s, m3/h
7818 + 7819	Set point low alarm	
7820	Hysteresis low alarm	
7821 + 7822	Set point high alarm	
7823	Hysteresis high alarm	
7824	Dead zone from zero	0.1 % (0-9.9%)
7825	Median value 3 of 5 enabled	0/1
7826	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
7827	Type of input board	99=Missing 100=mA/AC/Freq. 103=Echo33,1 04=Echo100
7828	Start value for mA/AC/Freq input	0.0 - 100.0 %
7839	Object number	Pump pit reference etc.
Following is valid if reg. 7826 = 1 (Data reg.)		
7834	Data register (source signal)	
7835 + 7836	Register value for 0 %	0-65535 for standard registers
7837 + 7838	Register value for 100 %	can be larger for double registers
Following is valid if reg. 7826 = 2 (Difference signal 1 - signal 2)		
7830	Signal 1 module index	0-4
7831	Signal 1 A.IN index	0-3
7832	Signal 2 module index	0-4
7833	Signal 2 A.IN index	0-3

Register no	Description	Scale factor / unit / note
3.1.50.2 Configuration analogue in IO module 1 A.IN 2		
7840	Analogue in type	See appendices about IO types
7841	Ramp time 0-100 %	sec
7842	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
7843	Used type for input signal	1=mA,2=AC,3=Freq. etc.
7844 + 7845	Scale value for 0% (0/4 mA)	
7846 + 7847	Scale value for 100% (20 mA)	
7848	Decimal count	0-4
7849	Alternate unit	0/1 ex. l/s, m3/h
7850 + 7851	Set point low alarm	
7852	Hysteresis low alarm	
7853 + 7854	Set point high alarm	
7855	Hysteresis high alarm	
7856	Dead zone from zero	0.1 % (0-9.9%)
7857	Median value 3 of 5 enabled	0/1
7858	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
7859	Type of input board	99=Missing 100=mA/AC/Freq. 103=Echo33 104=Echo100
7860	Start value for mA/AC/Freq input	0.0 - 100.0 %
7871	Object number	Pump pit reference etc.

Following is valid if reg. 7858 = 1 (Data reg.)

7866	Data register (source signal)	
7867 + 7868	Register value for 0 %	0-65535 for standard registers
7869 + 7870	Register value for 100 %	can be larger for double registers

Following is valid if reg. 7858 = 2 (Difference signal 1 - signal 2)

7862	Signal 1 module index	0-4
7863	Signal 1 A.IN index	0-3
7864	Signal 2 module index	0-4
7865	Signal 2 A.IN index	0-3

3.1.50.3 Configuration analogue in IO module 1 A.IN 3

7872	Analogue in type	See appendices about IO types
7873	Ramp time 0-100 %	sec
7874	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
7875	Used type for input signal	1=mA,2=AC,3=Freq. etc.
7876 + 7877	Scale value for 0% (0/4 mA)	
7878 + 7879	Scale value for 100% (20 mA)	
7880	Decimal count	0-4
7881	Alternate unit	0/1 ex. l/s, m3/h
7882 + 7883	Set point low alarm	
7884	Hysteresis low alarm	
7885 + 7886	Set point high alarm	
7887	Hysteresis high alarm	
7888	Dead zone from zero	0.1 % (0-9.9%)
7889	Median value 3 of 5 enabled	0/1
7890	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
7891	Type of input board	99=Missing 100=mA/AC/Freq. 103=Echo33 104=Echo100
7892	Start value for mA/AC/Freq input	0.0 - 100.0 %
7903	Object number	Pump pit reference etc.

Following is valid if reg. 7890 = 1 (Data reg.)

7898	Data register (source signal)	
7899 + 7900	Register value for 0 %	0-65535 for standard registers
7901 + 7902	Register value for 100 %	can be larger for double registers

Following is valid if reg. 7890 = 2 (Difference signal 1 - signal 2)

7894	Signal 1 module index	0-4
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Register no	Description	Scale factor / unit / note
7895	Signal 1 A.IN index	0-3
7896	Signal 2 module index	0-4
7897	Signal 2 A.IN index	0-3

3.1.50.4 Configuration analogue in IO module 1 A.IN 4

7904	Analogue in type	See appendices about IO types
7905	Ramp time 0-100 %	sec
7906	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
7907	Used type for input signal	1=mA,2=AC,3=Freq. etc.
7908 + 7909	Scale value for 0% (0/4 mA)	
7910 + 7911	Scale value for 100% (20 mA)	
7912	Decimal count	0-4
7913	Alternate unit	0/1 ex. l/s, m3/h
7914 + 7915	Set point low alarm	
7916	Hysteresis low alarm	
7917 + 7918	Set point high alarm	
7919	Hysteresis high alarm	
7920	Dead zone from zero	0.1 % (0-9.9%)
7921	Median value 3 of 5 enabled	0/1
7922	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
7923	Type of input board	99=Missing 100=mA/AC/Freq. 103=Echo33 104=Echo100
7924	Start value for mA/AC/Freq input	0.0 - 100.0 %
7935	Object number	Pump pit reference etc.

Following is valid if reg. 7922 = 1 (Data reg.)

7930	Data register (source signal)	
7931 + 7932	Register value for 0 %	0-65535 for standard registers
7933 + 7934	Register value for 100 %	can be larger for double registers

Following is valid if reg. 7922 = 2 (Difference signal 1 - signal 2)

7926	Signal 1 module index	0-4
7927	Signal 1 A.IN index	0-3
7928	Signal 2 module index	0-4
7929	Signal 2 A.IN index	0-3

3.1.50.5 Configuration analogue in IO module 2 A.IN 1

7936	Analogue in type	See appendices about IO types
7937	Ramp time 0-100 %	sec
7938	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
7939	Used type for input signal	1=mA,2=AC,3=Freq. etc.
7940 + 7941	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
7942 + 7943	Scale value for 100% (20 mA)	Unit depending on A.IN type
7944	Decimal count	0-4
7945	Alternate unit	0/1 ex. l/s, m3/h
7946 + 7947	Set point low alarm	
7948	Hysteresis low alarm	
7949 + 7950	Set point high alarm	
7951	Hysteresis high alarm	
7952	Dead zone from zero	0.1 % (0-9.9%)
7953	Median value 3 of 5 enabled	0/1
7954	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
7955	Type of input board	99=Missing 100=mA/AC/Freq.
7956	Start value for mA/AC/Freq input	0.0 - 100.0 %
7967	Object number	Pump pit reference etc.

Following is valid if reg. 7954 = 1 (Data reg.)

7962	Data register (source signal)	
7963 + 7964	Register value for 0 %	0-65535 for standard registers

Register no	Description	Scale factor / unit / note
7965 + 7966	Register value for 100 %	can be larger for double registers

Following is valid if reg. 7954 = 2 (Difference signal 1 - signal 2)

7958	Signal 1 module index	0-4
7959	Signal 1 A.IN index	0-3
7960	Signal 2 module index	0-4
7961	Signal 2 A.IN index	0-3

3.1.50.6 Configuration analogue in IO module 2 A.IN 2

7968	Analogue in type	See appendices about IO types
7969	Ramp time 0-100 %	sec
7970	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
7971	Used type for input signal	1=mA,2=AC,3=Freq. etc.
7972 + 7973	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
7974 + 7975	Scale value for 100% (20 mA)	Unit depending on A.IN type
7976	Decimal count	0-4
7977	Alternate unit	0/1 ex. l/s, m3/h
7978 + 7979	Set point low alarm	
7980	Hysteresis low alarm	
7981 + 7982	Set point high alarm	
7983	Hysteresis high alarm	
7984	Dead zone from zero	0.1 % (0-9.9%)
7985	Median value 3 of 5 enabled	0/1
7986	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
7987	Type of input board	99=Missing 100=mA/AC/Freq.
7988	Start value for mA/AC/Freq input	0.0 - 100.0 %
7999	Object number	Pump pit reference etc.

Following is valid if reg. 7986 = 1 (Data reg.)

7994	Data register (source signal)	
7995 + 7996	Register value for 0 %	0-65535 for standard registers
7997 + 7998	Register value for 100 %	can be larger for double registers

Following is valid if reg. 7986 = 2 (Difference signal 1 - signal 2)

7990	Signal 1 module index	0-4
7991	Signal 1 A.IN index	0-3
7992	Signal 2 module index	0-4
7993	Signal 2 A.IN index	0-3

3.1.50.7 Configuration analogue in IO module 2 A.IN 3

8000	Analogue in type	See appendices about IO types
8001	Ramp time 0-100 %	sec
8002	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8003	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8004 + 8005	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8006 + 8007	Scale value for 100% (20 mA)	Unit depending on A.IN type
8008	Decimal count	0-4
8009	Alternate unit	0/1 ex. l/s, m3/h
8010 + 8011	Set point low alarm	
8012	Hysteresis low alarm	
8013 + 8014	Set point high alarm	
8015	Hysteresis high alarm	
8016	Dead zone from zero	0.1 % (0-9.9%)
8017	Median value 3 of 5 enabled	0/1
8018	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8019	Type of input board	99=Missing 100=mA/AC/Freq.
8020	Start value for mA/AC/Freq input	0.0 - 100.0 %
8031	Object number	Pump pit reference etc.

Following is valid if reg. 8018 = 1 (Data reg.)

Register no	Description	Scale factor / unit / note
8026	Data register (source signal)	
8027 + 8028	Register value for 0 %	0-65535 for standard registers
8029 + 8030	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8018 = 2 (Difference signal 1 - signal 2)

8022	Signal 1 module index	0-4
8023	Signal 1 A.IN index	0-3
8024	Signal 2 module index	0-4
8025	Signal 2 A.IN index	0-3

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8032	Analogue in type	See appendices about IO types
8033	Ramp time 0-100 %	sec
8034	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8035	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8036 + 8037	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8038 + 8039	Scale value for 100% (20 mA)	Unit depending on A.IN type
8040	Decimal count	0-4
8041	Alternate unit	0/1 ex. l/s, m3/h
8042 + 8043	Set point low alarm	
8044	Hysteresis low alarm	
8045 + 8046	Set point high alarm	
8047	Hysteresis high alarm	
8048	Dead zone from zero	0.1 % (0-9.9%)
8049	Median value 3 of 5 enabled	0/1
8050	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8051	Type of input board	99=Missing 100=mA/AC/Freq.
8052	Start value for mA/AC/Freq input	0.0 - 100.0 %
8063	Object number	Pump pit reference etc.

Following is valid if reg. 8050 = 1 (Data reg.)

8058	Data register (source signal)	
8059 + 8060	Register value for 0 %	0-65535 for standard registers
8061 + 8062	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8050 = 2 (Difference signal 1 - signal 2)

8054	Signal 1 module index	0-4
8055	Signal 1 A.IN index	0-3
8056	Signal 2 module index	0-4
8057	Signal 2 A.IN index	0-3

3.1.50.9 Configuration analogue in IO module 3 A.IN 1

8064	Analogue in type	See appendices about IO types
8065	Ramp time 0-100 %	sec
8066	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8067	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8068 + 8069	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8070 + 8071	Scale value for 100% (20 mA)	Unit depending on A.IN type
8072	Decimal count	0-4
8073	Alternate unit	0/1 ex. l/s, m3/h
8074 + 8075	Set point low alarm	
8076	Hysteresis low alarm	
8077 + 8078	Set point high alarm	
8079	Hysteresis high alarm	
8080	Dead zone from zero	0.1 % (0-9.9%)
8081	Median value 3 of 5 enabled	0/1
8082	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8083	Type of input board	99=Missing 100=mA/AC/Freq.
8084	Start value for mA/AC/Freq input	0.0 - 100.0 %

Register no	Description	Scale factor / unit / note
8095	Object number	Pump pit reference etc.
Following is valid if reg. 8082 = 1 (Data reg.)		
8090	Data register (source signal)	
8091 + 8092	Register value for 0 %	0-65535 for standard registers
8093 + 8094	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8082 = 2 (Difference signal 1 - signal 2)

8086	Signal 1 module index	0-4
8087	Signal 1 A.IN index	0-3
8088	Signal 2 module index	0-4
8089	Signal 2 A.IN index	0-3

3.1.50.10 Configuration analogue in IO module 3 A.IN 2

8096	Analogue in type	See appendices about IO types
8097	Ramp time 0-100 %	sec
8098	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8099	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8100 + 8101	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8102 + 8103	Scale value for 100% (20 mA)	Unit depending on A.IN type
8104	Decimal count	0-4
8105	Alternate unit	0/1 ex. l/s, m3/h
8106 + 8107	Set point low alarm	
8108	Hysteresis low alarm	
8109 + 8110	Set point high alarm	
8111	Hysteresis high alarm	
8112	Dead zone from zero	0.1 % (0-9.9%)
8113	Median value 3 of 5 enabled	0/1
8114	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8115	Type of input board	99=Missing 100=mA/AC/Freq.
8116	Start value for mA/AC/Freq input	0.0 - 100.0 %
8127	Object number	Pump pit reference etc.

Following is valid if reg. 8114 = 1 (Data reg.)

8122	Data register (source signal)	
8123 + 8124	Register value for 0 %	0-65535 for standard registers
8125 + 8126	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8114 = 2 (Difference signal 1 - signal 2)

8118	Signal 1 module index	0-4
8119	Signal 1 A.IN index	0-3
8120	Signal 2 module index	0-4
8121	Signal 2 A.IN index	0-3

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8128	Analogue in type	See appendices about IO types
8129	Ramp time 0-100 %	sec
8130	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8131	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8132 + 8133	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8134 + 8135	Scale value for 100% (20 mA)	Unit depending on A.IN type
8136	Decimal count	0-4
8137	Alternate unit	0/1 ex. l/s, m3/h
8138 + 8139	Set point low alarm	
8140	Hysteresis low alarm	
8141 + 8142	Set point high alarm	
8143	Hysteresis high alarm	
8144	Dead zone from zero	0.1 % (0-9.9%)
8145	Median value 3 of 5 enabled	0/1

Register no	Description	Scale factor / unit / note
8146	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8147	Type of input board	99=Missing 100=mA/AC/Freq.
8148	Start value for mA/AC/Freq input	0.0 - 100.0 %
8159	Object number	Pump pit reference etc.

Following is valid if reg. 8146 = 1 (Data reg.)

8154	Data register (source signal)	
8155 + 8156	Register value for 0 %	0-65535 for standard registers
8157 + 8158	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8146 = 2 (Difference signal 1 - signal 2)

8150	Signal 1 module index	0-4
8151	Signal 1 A.IN index	0-3
8152	Signal 2 module index	0-4
8153	Signal 2 A.IN index	0-3

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8160	Analogue in type	See appendices about IO types
8161	Ramp time 0-100 %	sec
8162	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8163	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8164 + 8165	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8166 + 8167	Scale value for 100% (20 mA)	Unit depending on A.IN type
8168	Decimal count	0-4
8169	Alternate unit	0/1 ex. l/s, m3/h
8170 + 8171	Set point low alarm	
8172	Hysteresis low alarm	
8173 + 8174	Set point high alarm	
8175	Hysteresis high alarm	
8176	Dead zone from zero	0.1 % (0-9.9%)
8177	Median value 3 of 5 enabled	0/1
8178	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8179	Type of input board	99=Missing 100=mA/AC/Freq.
8180	Start value for mA/AC/Freq input	0.0 - 100.0 %
8191	Object number	Pump pit reference etc.

Following is valid if reg. 8178 = 1 (Data reg.)

8186	Data register (source signal)	
8187 + 8188	Register value for 0 %	0-65535 for standard registers
8189 + 8190	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8178 = 2 (Difference signal 1 - signal 2)

8182	Signal 1 module index	0-4
8183	Signal 1 A.IN index	0-3
8184	Signal 2 module index	0-4
8185	Signal 2 A.IN index	0-3

3.1.50.13 Configuration analogue in IO module 4 A.IN 1

8192	Analogue in type	See appendices about IO types
8193	Ramp time 0-100 %	sec
8194	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8195	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8196 + 8197	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8198 + 8199	Scale value for 100% (20 mA)	Unit depending on A.IN type
8200	Decimal count	0-4
8201	Alternate unit	0/1 ex. l/s, m3/h
8202 + 8203	Set point low alarm	
8204	Hysteresis low alarm	
8205 + 8206	Set point high alarm	

Register no	Description	Scale factor / unit / note
8207	Hysteresis high alarm	
8208	Dead zone from zero	0.1 % (0-9.9%)
8209	Median value 3 of 5 enabled	0/1
8210	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8211	Type of input board	99=Missing 100=mA/AC/Freq.
8212	Start value for mA/AC/Freq input	0.0 - 100.0 %
8223	Object number	Pump pit reference etc.

Following is valid if reg. 8210 = 1 (Data reg.)

8218	Data register (source signal)	
8219 + 8220	Register value for 0 %	0-65535 for standard registers
8221 + 8222	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8210 = 2 (Difference signal 1 - signal 2)

8214	Signal 1 module index	0-4
8215	Signal 1 A.IN index	0-3
8216	Signal 2 module index	0-4
8217	Signal 2 A.IN index	0-3

3.1.50.14 Configuration analogue in IO module 4 A.IN 2

8224	Analogue in type	See appendices about IO types
8225	Ramp time 0-100 %	sec
8226	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8227	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8228 + 8229	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8230 + 8231	Scale value for 100% (20 mA)	Unit depending on A.IN type
8232	Decimal count	0-4
8233	Alternate unit	0/1 ex. l/s, m3/h
8234 + 8235	Set point low alarm	
8236	Hysteresis low alarm	
8237 + 8238	Set point high alarm	
8239	Hysteresis high alarm	
8240	Dead zone from zero	0.1 % (0-9.9%)
8241	Median value 3 of 5 enabled	0/1
8242	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8243	Type of input board	99=Missing 100=mA/AC/Freq.
8244	Start value for mA/AC/Freq input	0.0 - 100.0 %
8255	Object number	Pump pit reference etc.

Following is valid if reg. 8242 = 1 (Data reg.)

8250	Data register (source signal)	
8251 + 8252	Register value for 0 %	0-65535 for standard registers
8253 + 8254	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8242 = 2 (Difference signal 1 - signal 2)

8246	Signal 1 module index	0-4
8247	Signal 1 A.IN index	0-3
8248	Signal 2 module index	0-4
8249	Signal 2 A.IN index	0-3

3.1.50.15 Configuration analogue in IO module 4 A.IN 3

8256	Analogue in type	See appendices about IO types
8257	Ramp time 0-100 %	sec
8258	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8259	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8260 + 8261	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8262 + 8263	Scale value for 100% (20 mA)	Unit depending on A.IN type
8264	Decimal count	0-4
8265	Alternate unit	0/1 ex. l/s, m3/h

Register no	Description	Scale factor / unit / note
8266 + 8267	Set point low alarm	
8268	Hysteresis low alarm	
8269 + 8270	Set point high alarm	
8271	Hysteresis high alarm	
8272	Dead zone from zero	0.1 % (0-9.9%)
8273	Median value 3 of 5 enabled	0/1
8274	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8275	Type of input board	99=Missing 100=mA/AC/Freq.
8276	Start value for mA/AC/Freq input	0.0 - 100.0 %
8287	Object number	Pump pit reference etc.

Following is valid if reg. 8274 = 1 (Data reg.)

8282	Data register (source signal)	
8283 + 8284	Register value for 0 %	0-65535 for standard registers
8285 + 8286	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8274 = 2 (Difference signal 1 - signal 2)

8278	Signal 1 module index	0-4
8279	Signal 1 A.IN index	0-3
8280	Signal 2 module index	0-4
8281	Signal 2 A.IN index	0-3

3.1.50.16 Configuration analogue in IO module 4 A.IN 4

8288	Analogue in type	See appendices about IO types
8289	Ramp time 0-100 %	sec
8290	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8291	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8292 + 8293	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8294 + 8295	Scale value for 100% (20 mA)	Unit depending on A.IN type
8296	Decimal count	0-4
8297	Alternate unit	0/1 ex. l/s, m3/h
8298 + 8299	Set point low alarm	
8300	Hysteresis low alarm	
8301 + 8302	Set point high alarm	
8303	Hysteresis high alarm	
8304	Dead zone from zero	0.1 % (0-9.9%)
8305	Median value 3 of 5 enabled	0/1
8306	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8307	Type of input board	99=Missing 100=mA/AC/Freq.
8308	Start value for mA/AC/Freq input	0.0 - 100.0 %
8319	Object number	Pump pit reference etc.

Following is valid if reg. 8306 = 1 (Data reg.)

8314	Data register (source signal)	
8315 + 8316	Register value for 0 %	0-65535 for standard registers
8317 + 8318	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8306 = 2 (Difference signal 1 - signal 2)

8310	Signal 1 module index	0-4
8311	Signal 1 A.IN index	0-3
8312	Signal 2 module index	0-4
8313	Signal 2 A.IN index	0-3

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8320	Analogue in type	See appendices about IO types
8321	Ramp time 0-100 %	sec
8322	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8323	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8324 + 8325	Scale value for 0% (0/4 mA)	Unit depending on A.IN type

Register no	Description	Scale factor / unit / note
8326 + 8327	Scale value for 100% (20 mA)	Unit depending on A.IN type
8328	Decimal count	0-4
8329	Alternate unit	0/1 ex. l/s, m3/h
8330 + 8331	Set point low alarm	
8332	Hysteresis low alarm	
8333 + 8334	Set point high alarm	
8335	Hysteresis high alarm	
8336	Dead zone from zero	0.1 % (0-9.9%)
8337	Median value 3 of 5 enabled	0/1
8338	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8339	Type of input board	99=Missing 100=mA/AC/Freq.
8340	Start value for mA/AC/Freq input	0.0 - 100.0 %
8351	Object number	Pump pit reference etc.

Following is valid if reg. 8338 = 1 (Data reg.)

8346	Data register (source signal)	
8347 + 8348	Register value for 0 %	0-65535 for standard registers
8349 + 8350	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8338 = 2 (Difference signal 1 - signal 2)

8342	Signal 1 module index	0-4
8343	Signal 1 A.IN index	0-3
8344	Signal 2 module index	0-4
8345	Signal 2 A.IN index	0-3

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8352	Analogue in type	See appendices about IO types
8353	Ramp time 0-100 %	sec
8354	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8355	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8356 + 8357	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8358 + 8359	Scale value for 100% (20 mA)	Unit depending on A.IN type
8360	Decimal count	0-4
8361	Alternate unit	0/1 ex. l/s, m3/h
8362 + 8363	Set point low alarm	
8364	Hysteresis low alarm	
8365 + 8366	Set point high alarm	
8367	Hysteresis high alarm	
8368	Dead zone from zero	0.1 % (0-9.9%)
8369	Median value 3 of 5 enabled	0/1
8370	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8371	Type of input board	99=Missing 100=mA/AC/Freq.
8372	Start value for mA/AC/Freq input	0.0 - 100.0 %
8383	Object number	Pump pit reference etc.

Following is valid if reg. 8370 = 1 (Data reg.)

8378	Data register (source signal)	
8379 + 8380	Register value for 0 %	0-65535 for standard registers
8381 + 8382	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8370 = 2 (Difference signal 1 - signal 2)

8374	Signal 1 module index	0-4
8375	Signal 1 A.IN index	0-3
8376	Signal 2 module index	0-4
8377	Signal 2 A.IN index	0-3

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8384	Analogue in type	See appendices about IO types
8385	Ramp time 0-100 %	sec

Register no	Description	Scale factor / unit / note
8386	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8387	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8388 + 8389	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8390 + 8391	Scale value for 100% (20 mA)	Unit depending on A.IN type
8392	Decimal count	0-4
8393	Alternate unit	0/1 ex. l/s, m3/h
8394 + 8395	Set point low alarm	
8396	Hysteresis low alarm	
8397 + 8398	Set point high alarm	
8399	Hysteresis high alarm	
8400	Dead zone from zero	0.1 % (0-9.9%)
8401	Median value 3 of 5 enabled	0/1
8402	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8403	Type of input board	99=Missing 100=mA/AC/Freq.
8404	Start value for mA/AC/Freq input	0.0 - 100.0 %
8415	Object number	Pump pit reference etc.

Following is valid if reg. 8402 = 1 (Data reg.)

8410	Data register (source signal)	
8411 + 8412	Register value for 0 %	0-65535 for standard registers
8413 + 8414	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8402 = 2 (Difference signal 1 - signal 2)

8406	Signal 1 module index	0-4
8407	Signal 1 A.IN index	0-3
8408	Signal 2 module index	0-4
8409	Signal 2 A.IN index	0-3

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8416	Analogue in type	See appendices about IO types
8417	Ramp time 0-100 %	sec
8418	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8419	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8420 + 8421	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8422 + 8423	Scale value for 100% (20 mA)	Unit depending on A.IN type
8424	Decimal count	0-4
8425	Alternate unit	0/1 ex. l/s, m3/h
8426 + 8427	Set point low alarm	
8428	Hysteresis low alarm	
8429 + 8430	Set point high alarm	
8431	Hysteresis high alarm	
8432	Dead zone from zero	0.1 % (0-9.9%)
8433	Median value 3 of 5 enabled	0/1
8434	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8435	Type of input board	99=Missing 100=mA/AC/Freq.
8436	Start value for mA/AC/Freq input	0.0 - 100.0 %
8447	Object number	Pump pit reference etc.

Following is valid if reg. 8434 = 1 (Data reg.)

8442	Data register (source signal)	
8443 + 8444	Register value for 0 %	0-65535 for standard registers
8445 + 8446	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8434 = 2 (Difference signal 1 - signal 2)

8438	Signal 1 module index	0-4
8439	Signal 1 A.IN index	0-3
8440	Signal 2 module index	0-4
8441	Signal 2 A.IN index	0-3

Register no	Description	Scale factor / unit / note
3.1.50.21 Configuration analogue in IO module 6 A.IN 1		
8448	Analogue in type	See appendices about IO types
8449	Ramp time 0-100 %	sec
8450	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8451	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8452 + 8453	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8454 + 8455	Scale value for 100% (20 mA)	Unit depending on A.IN type
8456	Decimal count	0-4
8457	Alternate unit	0/1 ex. l/s, m3/h
8458 + 8459	Set point low alarm	
8460	Hysteresis low alarm	
8461 + 8462	Set point high alarm	
8463	Hysteresis high alarm	
8464	Dead zone from zero	0.1 % (0-9.9%)
8465	Median value 3 of 5 enabled	0/1
8466	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8467	Type of input board	99=Missing 100=mA/AC/Freq.
8468	Start value for mA/AC/Freq input	0.0 - 100.0 %
8479	Object number	Pump pit reference etc.

Following is valid if reg. 8466 = 1 (Data reg.)

8474	Data register (source signal)	
8475 + 8476	Register value for 0 %	0-65535 for standard registers
8477 + 8478	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8466 = 2 (Difference signal 1 - signal 2)

8470	Signal 1 module index	0-4
8471	Signal 1 A.IN index	0-3
8472	Signal 2 module index	0-4
8473	Signal 2 A.IN index	0-3

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8480	Analogue in type	See appendices about IO types
8481	Ramp time 0-100 %	sec
8482	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8483	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8484 + 8485	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8486 + 8487	Scale value for 100% (20 mA)	Unit depending on A.IN type
8488	Decimal count	0-4
8489	Alternate unit	0/1 ex. l/s, m3/h
8490 + 8491	Set point low alarm	
8492	Hysteresis low alarm	
8493 + 8494	Set point high alarm	
8495	Hysteresis high alarm	
8496	Dead zone from zero	0.1 % (0-9.9%)
8497	Median value 3 of 5 enabled	0/1
8498	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8499	Type of input board	99=Missing 100=mA/AC/Freq.
8500	Start value for mA/AC/Freq input	0.0 - 100.0 %
8511	Object number	Pump pit reference etc.

Following is valid if reg. 8498 = 1 (Data reg.)

8506	Data register (source signal)	
8507 + 8508	Register value for 0 %	0-65535 for standard registers
8509 + 8510	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8498 = 2 (Difference signal 1 - signal 2)

8502	Signal 1 module index	0-4
8503	Signal 1 A.IN index	0-3
8504	Signal 2 module index	0-4

Register no	Description	Scale factor / unit / note
8505	Signal 2 A.IN index	0-3

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8512	Analogue in type	See appendices about IO types
8513	Ramp time 0-100 %	sec
8514	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8515	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8516 + 8517	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8518 + 8519	Scale value for 100% (20 mA)	Unit depending on A.IN type
8520	Decimal count	0-4
8521	Alternate unit	0/1 ex. l/s, m3/h
8522 + 8523	Set point low alarm	
8524	Hysteresis low alarm	
8525 + 8526	Set point high alarm	
8527	Hysteresis high alarm	
8528	Dead zone from zero	0.1 % (0-9.9%)
8529	Median value 3 of 5 enabled	0/1
8530	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8531	Type of input board	99=Missing 100=mA/AC/Freq.
8532	Start value for mA/AC/Freq input	0.0 - 100.0 %
8543	Object number	Pump pit reference etc.

Following is valid if reg. 8530 = 1 (Data reg.)

8538	Data register (source signal)	
8539 + 8540	Register value for 0 %	0-65535 for standard registers
8541 + 8542	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8530 = 2 (Difference signal 1 - signal 2)

8534	Signal 1 module index	0-4
8535	Signal 1 A.IN index	0-3
8536	Signal 2 module index	0-4
8537	Signal 2 A.IN index	0-3

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8544	Analogue in type	See appendices about IO types
8545	Ramp time 0-100 %	sec
8546	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8547	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8548 + 8549	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8550 + 8551	Scale value for 100% (20 mA)	Unit depending on A.IN type
8552	Decimal count	0-4
8553	Alternate unit	0/1 ex. l/s, m3/h
8554 + 8555	Set point low alarm	
8556	Hysteresis low alarm	
8557 + 8558	Set point high alarm	
8559	Hysteresis high alarm	
8560	Dead zone from zero	0.1 % (0-9.9%)
8561	Median value 3 of 5 enabled	0/1
8562	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8563	Type of input board	99=Missing 100=mA/AC/Freq.
8564	Start value for mA/AC/Freq input	0.0 - 100.0 %
8575	Object number	Pump pit reference etc.

Following is valid if reg. 8562 = 1 (Data reg.)

8570	Data register (source signal)	
8571 + 8572	Register value for 0 %	0-65535 for standard registers
8573 + 8574	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8562 = 2 (Difference signal 1 - signal 2)

Register no	Description	Scale factor / unit / note
8566	Signal 1 module index	0-4
8567	Signal 1 A.IN index	0-3
8568	Signal 2 module index	0-4
8569	Signal 2 A.IN index	0-3

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8576	Analogue in type	See appendices about IO types
8577	Ramp time 0-100 %	sec
8578	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8579	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8580 + 8581	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8582 + 8583	Scale value for 100% (20 mA)	Unit depending on A.IN type
8584	Decimal count	0-4
8585	Alternate unit	0/1 ex. l/s, m3/h
8586 + 8587	Set point low alarm	
8588	Hysteresis low alarm	
8589 + 8590	Set point high alarm	
8591	Hysteresis high alarm	
8592	Dead zone from zero	0.1 % (0-9.9%)
8593	Median value 3 of 5 enabled	0/1
8594	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8595	Type of input board	99=Missing 100=mA/AC/Freq.
8596	Start value for mA/AC/Freq input	0.0 - 100.0 %
8607	Object number	Pump pit reference etc.

Following is valid if reg. 8594 = 1 (Data reg.)

8602	Data register (source signal)	
8603 + 8604	Register value for 0 %	0-65535 for standard registers
8605 + 8606	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8594 = 2 (Difference signal 1 - signal 2)

8598	Signal 1 module index	0-4
8599	Signal 1 A.IN index	0-3
8600	Signal 2 module index	0-4
8601	Signal 2 A.IN index	0-3

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8608	Analogue in type	See appendices about IO types
8609	Ramp time 0-100 %	sec
8610	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8611	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8612 + 8613	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8614 + 8615	Scale value for 100% (20 mA)	Unit depending on A.IN type
8616	Decimal count	0-4
8617	Alternate unit	0/1 ex. l/s, m3/h
8618 + 8619	Set point low alarm	
8620	Hysteresis low alarm	
8621 + 8622	Set point high alarm	
8623	Hysteresis high alarm	
8624	Dead zone from zero	0.1 % (0-9.9%)
8625	Median value 3 of 5 enabled	0/1
8626	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8627	Type of input board	99=Missing 100=mA/AC/Freq.
8628	Start value for mA/AC/Freq input	0.0 - 100.0 %
8639	Object number	Pump pit reference etc.

Following is valid if reg. 8626 = 1 (Data reg.)

8634	Data register (source signal)	
8635 + 8636	Register value for 0 %	0-65535 for standard registers

Register no	Description	Scale factor / unit / note
8637 + 8638	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8626 = 2 (Difference signal 1 - signal 2)

8630	Signal 1 module index	0-4
8631	Signal 1 A.IN index	0-3
8632	Signal 2 module index	0-4
8633	Signal 2 A.IN index	0-3

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8640	Analogue in type	See appendices about IO types
8641	Ramp time 0-100 %	sec
8642	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8643	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8644 + 8645	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8646 + 8647	Scale value for 100% (20 mA)	Unit depending on A.IN type
8648	Decimal count	0-4
8649	Alternate unit	0/1 ex. l/s, m3/h
8650 + 8651	Set point low alarm	
8652	Hysteresis low alarm	
8653 + 8654	Set point high alarm	
8655	Hysteresis high alarm	
8656	Dead zone from zero	0.1 % (0-9.9%)
8657	Median value 3 of 5 enabled	0/1
8658	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8659	Type of input board	99=Missing 100=mA/AC/Freq.
8660	Start value for mA/AC/Freq input	0.0 - 100.0 %
8671	Object number	Pump pit reference etc.

Following is valid if reg. 8658 = 1 (Data reg.)

8666	Data register (source signal)	
8667 + 8668	Register value for 0 %	0-65535 for standard registers
8669 + 8670	Register value for 100 %	can be larger for double registers

Following is valid if reg. 8658 = 2 (Difference signal 1 - signal 2)

8662	Signal 1 module index	0-4
8663	Signal 1 A.IN index	0-3
8664	Signal 2 module index	0-4
8665	Signal 2 A.IN index	0-3

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8672	Analogue in type	See appendices about IO types
8673	Ramp time 0-100 %	sec
8674	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8675	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8676 + 8677	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8678 + 8679	Scale value for 100% (20 mA)	Unit depending on A.IN type
8680	Decimal count	0-4
8681	Alternate unit	0/1 ex. l/s, m3/h
8682 + 8683	Set point low alarm	
8684	Hysteresis low alarm	
8685 + 8686	Set point high alarm	
8687	Hysteresis high alarm	
8688	Dead zone from zero	0.1 % (0-9.9%)
8689	Median value 3 of 5 enabled	0/1
8690	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8691	Type of input board	99=Missing 100=mA/AC/Freq.
8692	Start value for mA/AC/Freq input	0.0 - 100.0 %
8703	Object number	Pump pit reference etc.

Register no	Description	Scale factor / unit / note
Following is valid if reg. 8690 = 1 (Data reg.)		
8698	Data register (source signal)	
8699 + 8700	Register value for 0 %	0-65535 for standard registers
8701 + 8702	Register value for 100 %	can be larger for double registers
Following is valid if reg. 8690 = 2 (Difference signal 1 - signal 2)		
8694	Signal 1 module index	0-4
8695	Signal 1 A.IN index	0-3
8696	Signal 2 module index	0-4
8697	Signal 2 A.IN index	0-3
3.1.50.29 Configuration analogue in IO module 8 A.IN 1		
8704	Analogue in type	See appendices about IO types
8705	Ramp time 0-100 %	sec
8706	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8707	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8708 + 8709	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8710 + 8711	Scale value for 100% (20 mA)	Unit depending on A.IN type
8712	Decimal count	0-4
8713	Alternate unit	0/1 ex. l/s, m3/h
8714 + 8715	Set point low alarm	
8716	Hysteresis low alarm	
8717 + 8718	Set point high alarm	
8719	Hysteresis high alarm	
8720	Dead zone from zero	0.1 % (0-9.9%)
8721	Median value 3 of 5 enabled	0/1
8722	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8723	Type of input board	99=Missing 100=mA/AC/Freq.
8735	Object number	Pump pit reference etc.
Following is valid if reg. 8722 = 1 (Data reg.)		
8730	Data register (source signal)	
8731 + 8732	Register value for 0 %	0-65535 for standard registers
8733 + 8734	Register value for 100 %	can be larger for double registers
Following is valid if reg. 8722 = 2 (Difference signal 1 - signal 2)		
8726	Signal 1 module index	0-4
8727	Signal 1 A.IN index	0-3
8728	Signal 2 module index	0-4
8729	Signal 2 A.IN index	0-3
3.1.50.30 Configuration analogue in IO module 8 A.IN 2		
8736	Analogue in type	See appendices about IO types
8737	Ramp time 0-100 %	sec
8738	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8739	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8740 + 8741	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8742 + 8743	Scale value for 100% (20 mA)	Unit depending on A.IN type
8744	Decimal count	0-4
8745	Alternate unit	0/1 ex. l/s, m3/h
8746 + 8747	Set point low alarm	
8748	Hysteresis low alarm	
8749 + 8750	Set point high alarm	
8751	Hysteresis high alarm	
8752	Dead zone from zero	0.1 % (0-9.9%)
8753	Median value 3 of 5 enabled	0/1
8754	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8755	Type of input board	99=Missing 100=mA/AC/Freq.
8767	Object number	Pump pit reference etc.

Register no	Description	Scale factor / unit / note
Following is valid if reg. 8754 = 1 (Data reg.)		
8762	Data register (source signal)	
8763 + 8764	Register value for 0 %	0-65535 for standard registers
8765 + 8766	Register value for 100 %	can be larger for double registers
Following is valid if reg. 8754 = 2 (Difference signal 1 - signal 2)		
8758	Signal 1 module index	0-4
8759	Signal 1 A.IN index	0-3
8760	Signal 2 module index	0-4
8761	Signal 2 A.IN index	0-3
3.1.50.31 Configuration analogue in IO module 8 A.IN 3		
8768	Analogue in type	See appendices about IO types
8769	Ramp time 0-100 %	sec
8770	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8771	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8772 + 8773	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8774 + 8775	Scale value for 100% (20 mA)	Unit depending on A.IN type
8776	Decimal count	0-4
8777	Alternate unit	0/1 ex. l/s, m3/h
8778 + 8779	Set point low alarm	
8780	Hysteresis low alarm	
8781 + 8782	Set point high alarm	
8783	Hysteresis high alarm	
8784	Dead zone from zero	0.1 % (0-9.9%)
8785	Median value 3 of 5 enabled	0/1
8786	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8787	Type of input board	99=Missing 100=mA/AC/Freq.
8799	Object number	Pump pit reference etc.
Following is valid if reg. 8786 = 1 (Data reg.)		
8794	Data register (source signal)	
8795 + 8796	Register value for 0 %	0-65535 for standard registers
8797 + 8798	Register value for 100 %	can be larger for double registers
Following is valid if reg. 8786 = 2 (Difference signal 1 - signal 2)		
8790	Signal 1 module index	0-4
8791	Signal 1 A.IN index	0-3
8792	Signal 2 module index	0-4
8793	Signal 2 A.IN index	0-3
3.1.50.32 Configuration analogue in IO module 8 A.IN 4		
8800	Analogue in type	See appendices about IO types
8801	Ramp time 0-100 %	sec
8802	mA flag 0/4-20 mA	0=4-20 mA, 1=0-20 mA
8803	Used type for input signal	1=mA,2=AC,3=Freq. etc.
8804 + 8805	Scale value for 0% (0/4 mA)	Unit depending on A.IN type
8806 + 8807	Scale value for 100% (20 mA)	Unit depending on A.IN type
8808	Decimal count	0-4
8809	Alternate unit	0/1 ex. l/s, m3/h
8810 + 8811	Set point low alarm	
8812	Hysteresis low alarm	
8813 + 8814	Set point high alarm	
8815	Hysteresis high alarm	
8816	Dead zone from zero	0.1 % (0-9.9%)
8817	Median value 3 of 5 enabled	0/1
8818	Local / Remote IO	0=Terminal, 1=Data reg., 2=Difference
8819	Type of input board	99=Missing 100=mA/AC/Freq.

Register no	Description	Scale factor / unit / note
8831	Object number	Pump pit reference etc.
Following is valid if reg. 8818 = 1 (Data reg.)		
8826	Data register (source signal)	
8827 + 8828	Register value for 0 %	0-65535 for standard registers
8829 + 8830	Register value for 100 %	can be larger for double registers
Following is valid if reg. 8818 = 2 (Difference signal 1 - signal 2)		
8822	Signal 1 module index	0-4
8823	Signal 1 A.IN index	0-3
8824	Signal 2 module index	0-4
8825	Signal 2 A.IN index	0-3
3.1.51 Configuration PID regulator PID 1		
8832	Open for config.	Always 1
8833	Module index for current value	1-5
8834	A.IN no for current value	1-4, 0=disabled
8837	Module index for extern set point	1-5
8838	A.IN no for extern set point	1-4, 0=disabled
8839	Module index for D.IN blocking	1-5
8840	D.IN no for D.IN blocking	1-16, 0=disabled
8843 + 8844	Max set point if limitation	
8845 + 8846	Min set point if limitation	
8847	Max output signal	0.1 %
8848	Min output signal	0.1 %
8849 + 8850	Gain factor	0.001 times
8851	I-time	sec (0-9999)
8852	D-time	sec (0-9999)
8853	Sampling time	0.1 sec (0.5-99.5)
8854	Output signal at 0 deviation	0.1 %
8855	Max derivata / sample	%
8856	Output signal when blocked	0.1 %
8859 + 8860	Set point at start-up	
8863	Output signal at start-up	0.1 %
8867 + 8868	Scale constant for 100 % current value	
8869 + 8870	Scale constant for 0 % current value	
8871	External set point	0=No, 1=Yes
8872	Inverted output signal	0=No, 1=Yes
8874	Control method at start-up	0=Previous, 1=Auto, 2=Man.
8875	Set point at start-up	0=Previous, 1=Int., 2=Ext.
8877	Output signal limitation	0=No, 1=Yes
8878	Set point limitation	0=No, 1=Yes
8879	Set point tracking	0=No, 1=Yes
8880	Regulator blocking	0=No, 1=Yes
8881	Pre-set output signal when blocked	0=No, 1=Yes
8882	RSP / CSP at external set point	0=RSP, 1=CSP
8883	Block output signal in manual	0=No, 1=Yes
8885	Pre-set set point at start-up	0=No, 1=Yes
8888	Pre-set output signal in manual	0=No, 1=Yes
8889	Save configuration	Write to save
8890 + 8891	Actual output signal	0.1 %
8896 + 8897	Actual current value	in engineering units
8898 + 8899	Actual set point	in engineering units
8900	Int./Ext. set point	0=RSP, 1=SP, 2=CSP
8901	Auto/Manual	0=Auto, 1=Man, 2=Block output signal
8902	Type of ext. set point	0=Ext. setp. missing, 1=RSP, 2=CSP (Read only)
8903	Decimal count in current value	
8904	Regulator OFF/ON	0=OFF, 1=ON

Register no	Description	Scale factor / unit / note
3.1.52	Configuration PID regulator PID 2	
8912	Open for config.	Always 1
8913	Module index for current value	1-5
8914	A.IN no for current value	1-4, 0=disabled
8917	Module index for extern set point	1-5
8918	A.IN no for extern set point	1-4, 0=disabled
8919	Module index for D.IN blocking	1-5
8920	D.IN no for D.IN blocking	1-16, 0=disabled
8923 + 8924	Max set point if limitation	
8925 + 8926	Min set point if limitation	
8927	Max output signal	0.1 %
8928	Min output signal	0.1 %
8929 + 8930	Gain factor	0.001 times
8931	I-time	sec (0-9999)
8932	D-time	sec (0-9999)
8933	Sampling time	0.1 sec (0.5-99.5)
8934	Output signal at 0 deviation	0.1 %
8935	Max derivata / sample	%
8936	Output signal when blocked	0.1 %
8939 + 8940	Set point at start-up	
8943	Output signal at start-up	0.1 %
8947 + 8948	Scale constant for 100 % current value	
8949 + 8950	Scale constant for 0 % current value	
8951	External set point	0=No, 1=Yes
8952	Inverted output signal	0=No, 1=Yes
8954	Control method at start-up	0=Previous, 1=Auto, 2=Man.
8955	Set point at start-up	0=Previous, 1=Int., 2=Ext.
8957	Output signal limitation	0=No, 1=Yes
8958	Set point limitation	0=No, 1=Yes
8959	Set point tracking	0=No, 1=Yes
8960	Regulator blocking	0=No, 1=Yes
8961	Pre-set output signal when blocked	0=No, 1=Yes
8962	RSP / CSP at external set point	0=RSP, 1=CSP
8963	Block output signal in manual	0=No, 1=Yes
8965	Pre-set set point at start-up	0=No, 1=Yes
8968	Pre-set output signal in manual	0=No, 1=Yes
8969	Save configuration	Write to save
8970 + 8971	Actual output signal	0.1 %
8976 + 8977	Actual current value	in engineering units
8978 + 8979	Actual set point	in engineering units
8980	Int./Ext. set point	0=RSP, 1=SP, 2=CSP
8981	Auto/Manual	0=Auto, 1=Man, 2=Block output signal
8982	Type of ext. set point	0=Ext. setp. missing, 1=RSP, 2=CSP (Read only)
8983	Decimal count in current value	
8984	Regulator OFF/ON	0=OFF, 1=ON
3.1.53	Additional set-up main menu (see also reg. 11574 for toggle set-up)	
8992	Flow unit row/value 1	0=l/s, 1=m3/h
8993	Decimal count row/value 1	(For register data)
8994	Flow unit row/value 2	0=l/s, 1=m3/h
8995	Decimal count row/value 2	(For register data)
8996	Flow unit row/value 3	0=l/s, 1=m3/h
8997	Decimal count row/value 3	(For register data)
8998	Flow unit row/value 4	0=l/s, 1=m3/h
8999	Decimal count row/value 4	(For register data)
3.1.54	Analogue log set-up log channel 0-19	
3.1.54.1	Analogue log set-up log channel 0	
9000	Open for configuration	Write 1

Register no	Description	Scale factor / unit / note
9001	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9002	Log interval	sec (2 - 21600)
9003	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9004	Signal type	See appendices about signal types
9005	Signal index	0 - Max signal index
9006	Unit option (for flow)	0=l/s, 1=m3/h
9007	Start register for expanded data	
9008	Decimal count	(For register data)
9009	Complete new config.	Write 2

3.1.54.2 Analogue log set-up log channel 1

9010	Open for configuration	Write 1
9011	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9012	Log interval	sec (2 - 21600)
9013	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9014	Signal type	See appendices about signal types
9015	Signal index	0 - Max signal index
9016	Unit option (for flow)	0=l/s, 1=m3/h
9017	Start register for expanded data	
9018	Decimal count	(For register data)
9019	Complete new config.	Write 2

3.1.54.3 Analogue log set-up log channel 2

9020	Open for configuration	Write 1
9021	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9022	Log interval	sec (2 - 21600)
9023	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9024	Signal type	See appendices about signal types
9025	Signal index	0 - Max signal index
9026	Unit option (for flow)	0=l/s, 1=m3/h
9027	Start register for expanded data	
9028	Decimal count	(For register data)
9029	Complete new config.	Write 2

3.1.54.4 Analogue log set-up log channel 3

9030	Open for configuration	Write 1
9031	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9032	Log interval	sec (2 - 21600)
9033	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9034	Signal type	See appendices about signal types
9035	Signal index	0 - Max signal index
9036	Unit option (for flow)	0=l/s, 1=m3/h
9037	Start register for expanded data	
9038	Decimal count	(For register data)
9039	Complete new config.	Write 2

3.1.54.5 Analogue log set-up log channel 4

9040	Open for configuration	Write 1
9041	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9042	Log interval	sec (2 - 21600)
9043	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9044	Signal type	See appendices about signal types
9045	Signal index	0 - Max signal index
9046	Unit option (for flow)	0=l/s, 1=m3/h
9047	Start register for expanded data	
9048	Decimal count	(For register data)
9049	Complete new config.	Write 2

Register no	Description	Scale factor / unit / note
3.1.54.6 Analogue log set-up log channel 5		
9050	Open for configuration	Write 1
9051	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9052	Log interval	sec (2 - 21600)
9053	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9054	Signal type	See appendices about signal types
9055	Signal index	0 - Max signal index
9056	Unit option (for flow)	0=l/s, 1=m3/h
9057	Start register for expanded data	
9058	Decimal count	(For register data)
9059	Complete new config.	Write 2
3.1.54.7 Analogue log set-up log channel 6		
9060	Open for configuration	Write 1
9061	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9062	Log interval	sec (2 - 21600)
9063	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9064	Signal type	See appendices about signal types
9065	Signal index	0 - Max signal index
9066	Unit option (for flow)	0=l/s, 1=m3/h
9067	Start register for expanded data	
9068	Decimal count	(For register data)
9069	Complete new config.	Write 2
3.1.54.8 Analogue log set-up log channel 7		
9070	Open for configuration	Write 1
9071	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9072	Log interval	sec (2 - 21600)
9073	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9074	Signal type	See appendices about signal types
9075	Signal index	0 - Max signal index
9076	Unit option (for flow)	0=l/s, 1=m3/h
9077	Start register for expanded data	
9078	Decimal count	(For register data)
9079	Complete new config.	Write 2
3.1.54.9 Analogue log set-up log channel 8		
9080	Open for configuration	Write 1
9081	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9082	Log interval	sec (2 - 21600)
9083	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9084	Signal type	See appendices about signal types
9085	Signal index	0 - Max signal index
9086	Unit option (for flow)	0=l/s, 1=m3/h
9087	Start register for expanded data	
9088	Decimal count	(For register data)
9089	Complete new config.	Write 2
3.1.54.10 Analogue log set-up log channel 9		
9090	Open for configuration	Write 1
9091	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9092	Log interval	sec (2 - 21600)
9093	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9094	Signal type	See appendices about signal types
9095	Signal index	0 - Max signal index
9096	Unit option (for flow)	0=l/s, 1=m3/h
9097	Start register for expanded data	

Register no	Description	Scale factor / unit / note
9098	Decimal count	(For register data)
9099	Complete new config.	Write 2
3.1.54.11 Analogue log set-up log channel 10		
9100	Open for configuration	Write 1
9101	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9102	Log interval	sec (2 - 21600)
9103	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9104	Signal type	See appendices about signal types
9105	Signal index	0 - Max signal index
9106	Unit option (for flow)	0=l/s, 1=m3/h
9107	Start register for expanded data	
9108	Decimal count	(For register data)
9109	Complete new config.	Write 2
3.1.54.12 Analogue log set-up log channel 11		
9110	Open for configuration	Write 1
9111	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9112	Log interval	sec (2 - 21600)
9113	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9114	Signal type	See appendices about signal types
9115	Signal index	0 - Max signal index
9116	Unit option (for flow)	0=l/s, 1=m3/h
9117	Start register for expanded data	
9118	Decimal count	(For register data)
9119	Complete new config.	Write 2
3.1.54.13 Analogue log set-up log channel 12		
9120	Open for configuration	Write 1
9121	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9122	Log interval	sec (2 - 21600)
9123	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9124	Signal type	See appendices about signal types
9125	Signal index	0 - Max signal index
9126	Unit option (for flow)	0=l/s, 1=m3/h
9127	Start register for expanded data	
9128	Decimal count	(For register data)
9129	Complete new config.	Write 2
3.1.54.14 Analogue log set-up log channel 13		
9130	Open for configuration	Write 1
9131	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9132	Log interval	sec (2 - 21600)
9133	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9134	Signal type	See appendices about signal types
9135	Signal index	0 - Max signal index
9136	Unit option (for flow)	0=l/s, 1=m3/h
9137	Start register for expanded data	
9138	Decimal count	(For register data)
9139	Complete new config.	Write 2
3.1.54.15 Analogue log set-up log channel 14		
9140	Open for configuration	Write 1
9141	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9142	Log interval	sec (2 - 21600)
9143	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9144	Signal type	See appendices about signal types
9145	Signal index	0 - Max signal index

Register no	Description	Scale factor / unit / note
9146	Unit option (for flow)	0=l/s, 1=m3/h
9147	Start register for expanded data	
9148	Decimal count	(For register data)
9149	Complete new config.	Write 2
3.1.54.16 Analogue log set-up log channel 15		
9150	Open for configuration	Write 1
9151	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9152	Log interval	sec (2 - 21600)
9153	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9154	Signal type	See appendices about signal types
9155	Signal index	0 - Max signal index
9156	Unit option (for flow)	0=l/s, 1=m3/h
9157	Start register for expanded data	
9158	Decimal count	(For register data)
9159	Complete new config.	Write 2
3.1.54.17 Analogue log set-up log channel 16		
9160	Open for configuration	Write 1
9161	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9162	Log interval	sec (2 - 21600)
9163	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9164	Signal type	See appendices about signal types
9165	Signal index	0 - Max signal index
9166	Unit option (for flow)	0=l/s, 1=m3/h
9167	Start register for expanded data	
9168	Decimal count	(For register data)
9169	Complete new config.	Write 2
3.1.54.18 Analogue log set-up log channel 17		
9170	Open for configuration	Write 1
9171	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9172	Log interval	sec (2 - 21600)
9173	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9174	Signal type	See appendices about signal types
9175	Signal index	0 - Max signal index
9176	Unit option (for flow)	0=l/s, 1=m3/h
9177	Start register for expanded data	
9178	Decimal count	(For register data)
9179	Complete new config.	Write 2
3.1.54.19 Analogue log set-up log channel 18		
9180	Open for configuration	Write 1
9181	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9182	Log interval	sec (2 - 21600)
9183	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9184	Signal type	See appendices about signal types
9185	Signal index	0 - Max signal index
9186	Unit option (for flow)	0=l/s, 1=m3/h
9187	Start register for expanded data	
9188	Decimal count	(For register data)
9189	Complete new config.	Write 2

Register no	Description	Scale factor / unit / note
3.1.54.20 Analogue log set-up log channel 19		
9190	Open for configuration	Write 1
9191	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
9192	Log interval	sec (2 - 21600)
9193	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
9194	Signal type	See appendices about signal types
9195	Signal index	0 - Max signal index
9196	Unit option (for flow)	0=l/s, 1=m ³ /h
9197	Start register for expanded data	
9198	Decimal count	(For register data)
9199	Complete new config.	Write 2
3.1.55 Pumpcontrol on level derivata PP 1		
9200	Start set-point <i>level incement</i>	cm (1-99, 0 = Disabled)
9201	Start set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
9202	Stop set-point <i>level decrement</i>	cm (1-99, 0 = Disabled)
9203	Stop set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
3.1.56 Pumpcontrol on level derivata PP 2		
9204	Start set-point <i>level incement</i>	cm (1-99, 0 = Disabled)
9205	Start set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
9206	Stop set-point <i>level decrement</i>	cm (1-99, 0 = Disabled)
9207	Stop set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
3.1.57 Pumpcontrol on level derivata PP 3		
9208	Start set-point <i>level incement</i>	cm (1-99, 0 = Disabled)
9209	Start set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
9210	Stop set-point <i>level decrement</i>	cm (1-99, 0 = Disabled)
9211	Stop set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
3.1.58 Pumpcontrol on level derivata PP 4		
9212	Start set-point <i>level incement</i>	cm (1-99, 0 = Disabled)
9213	Start set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
9214	Stop set-point <i>level decrement</i>	cm (1-99, 0 = Disabled)
9215	Stop set-point <i>/ number of minutes</i>	minut (1-99, 0 = Disabled)
3.1.59 Configuration digital out IO module 1-8		
3.1.59.1 Configuration digital out IO module 1 D.OUT 1		
9216	Digital out type	
9217	Object number	Pump reference etc.
9218	Normally Open/Closed	0=NO, 1=NC
9219	Parameter 1	Additional configuration for some IO-functions
9220	Parameter 2	See appendices about D.OUT types
9221	Parameter 3	
9222	Parameter 4	
9223	Parameter 5	
9224	Parameter 6	
9225	Parameter 7	
3.1.59.2 Configuration digital out IO module 1 D.OUT 2		
9226	Digital out type	
9227	Object number	Pump reference etc.
9228	Normally Open/Closed	0=NO, 1=NC
9229	Parameter 1	Additional configuration for some IO-functions
9230	Parameter 2	See appendices about D.OUT types

Register no	Description	Scale factor / unit / note
9231	Parameter 3	
9232	Parameter 4	
9233	Parameter 5	
9234	Parameter 6	
9235	Parameter 7	

3.1.59.3 Configuration digital out IO module 1 D.OUT 3

9236	Digital out type	
9237	Object number	Pump reference etc.
9238	Normally Open/Closed	0=NO, 1=NC
9239	Parameter 1	Additional configuration for some IO-functions
9240	Parameter 2	See appendices about D.OUT types
9241	Parameter 3	
9242	Parameter 4	
9243	Parameter 5	
9244	Parameter 6	
9245	Parameter 7	

3.1.59.4 Configuration digital out IO module 1 D.OUT 4

9246	Digital out type	
9247	Object number	Pump reference etc.
9248	Normally Open/Closed	0=NO, 1=NC
9249	Parameter 1	Additional configuration for some IO-functions
9250	Parameter 2	See appendices about D.OUT types
9251	Parameter 3	
9252	Parameter 4	
9253	Parameter 5	
9254	Parameter 6	
9255	Parameter 7	

3.1.59.5 Configuration digital out IO module 1 D.OUT 5

9256	Digital out type	
9257	Object number	Pump reference etc.
9258	Normally Open/Closed	0=NO, 1=NC
9259	Parameter 1	Additional configuration for some IO-functions
9260	Parameter 2	See appendices about D.OUT types
9261	Parameter 3	
9262	Parameter 4	
9263	Parameter 5	
9264	Parameter 6	
9265	Parameter 7	

3.1.59.6 Configuration digital out IO module 1 D.OUT 6

9266	Digital out type	
9267	Object number	Pump reference etc.
9268	Normally Open/Closed	0=NO, 1=NC
9269	Parameter 1	Additional configuration for some IO-functions
9270	Parameter 2	See appendices about D.OUT types
9271	Parameter 3	
9272	Parameter 4	
9273	Parameter 5	
9274	Parameter 6	
9275	Parameter 7	

Register no	Description	Scale factor / unit / note
3.1.59.7 Configuration digital out IO module 1 D.OUT 7		
9276	Digital out type	
9277	Object number	Pump reference etc.
9278	Normally Open/Closed	0=NO, 1=NC
9279	Parameter 1	Additional configuration for some IO-functions
9280	Parameter 2	See appendices about D.OUT types
9281	Parameter 3	
9282	Parameter 4	
9283	Parameter 5	
9284	Parameter 6	
9285	Parameter 7	

3.1.59.8 Configuration digital out IO module 1 D.OUT 8

9286	Digital out type	
9287	Object number	Pump reference etc.
9288	Normally Open/Closed	0=NO, 1=NC
9289	Parameter 1	Additional configuration for some IO-functions
9290	Parameter 2	See appendices about D.OUT types
9291	Parameter 3	
9292	Parameter 4	
9293	Parameter 5	
9294	Parameter 6	
9295	Parameter 7	

3.1.59.9 Configuration digital out IO module 2 D.OUT 1

9296	Digital out type	
9297	Object number	Pump reference etc.
9298	Normally Open/Closed	0=NO, 1=NC
9299	Parameter 1	Additional configuration for some IO-functions
9300	Parameter 2	See appendices about D.OUT types
9301	Parameter 3	
9302	Parameter 4	
9303	Parameter 5	
9304	Parameter 6	
9305	Parameter 7	

3.1.59.10 Configuration digital out IO module 2 D.OUT 2

9306	Digital out type	
9307	Object number	Pump reference etc.
9308	Normally Open/Closed	0=NO, 1=NC
9309	Parameter 1	Additional configuration for some IO-functions
9310	Parameter 2	See appendices about D.OUT types
9311	Parameter 3	
9312	Parameter 4	
9313	Parameter 5	
9314	Parameter 6	
9315	Parameter 7	

3.1.59.11 Configuration digital out IO module 2 D.OUT 3

9316	Digital out type	
9317	Object number	Pump reference etc.
9318	Normally Open/Closed	0=NO, 1=NC
9319	Parameter 1	Additional configuration for some IO-functions
9320	Parameter 2	See appendices about D.OUT types
9321	Parameter 3	
9322	Parameter 4	

Register no	Description	Scale factor / unit / note
9323	Parameter 5	
9324	Parameter 6	
9325	Parameter 7	

3.1.59.12 Configuration digital out IO module 2 D.OUT 4

9326	Digital out type	
9327	Object number	Pump reference etc.
9328	Normally Open/Closed	0=NO, 1=NC
9329	Parameter 1	Additional configuration for some IO-functions
9330	Parameter 2	See appendices about D.OUT types
9331	Parameter 3	
9332	Parameter 4	
9333	Parameter 5	
9334	Parameter 6	
9335	Parameter 7	

3.1.59.13 Configuration digital out IO module 2 D.OUT 5

9336	Digital out type	
9337	Object number	Pump reference etc.
9338	Normally Open/Closed	0=NO, 1=NC
9339	Parameter 1	Additional configuration for some IO-functions
9340	Parameter 2	See appendices about D.OUT types
9341	Parameter 3	
9342	Parameter 4	
9343	Parameter 5	
9344	Parameter 6	
9345	Parameter 7	

3.1.59.14 Configuration digital out IO module 2 D.OUT 6

9346	Digital out type	
9347	Object number	Pump reference etc.
9348	Normally Open/Closed	0=NO, 1=NC
9349	Parameter 1	Additional configuration for some IO-functions
9350	Parameter 2	See appendices about D.OUT types
9351	Parameter 3	
9352	Parameter 4	
9353	Parameter 5	
9354	Parameter 6	
9355	Parameter 7	

3.1.59.15 Configuration digital out IO module 2 D.OUT 7

9356	Digital out type	
9357	Object number	Pump reference etc.
9358	Normally Open/Closed	0=NO, 1=NC
9359	Parameter 1	Additional configuration for some IO-functions
9360	Parameter 2	See appendices about D.OUT types
9361	Parameter 3	
9362	Parameter 4	
9363	Parameter 5	
9364	Parameter 6	
9365	Parameter 7	

3.1.59.16 Configuration digital out IO module 2 D.OUT 8

9366	Digital out type	
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Register no	Description	Scale factor / unit / note
9367	Object number	Pump reference etc.
9368	Normally Open/Closed	0=NO, 1=NC
9369	Parameter 1	Additional configuration for some IO-functions
9370	Parameter 2	See appendices about D.OUT types
9371	Parameter 3	
9372	Parameter 4	
9373	Parameter 5	
9374	Parameter 6	
9375	Parameter 7	

3.1.59.17 Configuration digital out IO module 3 D.OUT 1

9376	Digital out type	
9377	Object number	Pump reference etc.
9378	Normally Open/Closed	0=NO, 1=NC
9379	Parameter 1	Additional configuration for some IO-functions
9380	Parameter 2	See appendices about D.OUT types
9381	Parameter 3	
9382	Parameter 4	
9383	Parameter 5	
9384	Parameter 6	
9385	Parameter 7	

3.1.59.18 Configuration digital out IO module 3 D.OUT 2

9386	Digital out type	
9387	Object number	Pump reference etc.
9388	Normally Open/Closed	0=NO, 1=NC
9389	Parameter 1	Additional configuration for some IO-functions
9390	Parameter 2	See appendices about D.OUT types
9391	Parameter 3	
9392	Parameter 4	
9393	Parameter 5	
9394	Parameter 6	
9395	Parameter 7	

3.1.59.19 Configuration digital out IO module 3 D.OUT 3

9396	Digital out type	
9397	Object number	Pump reference etc.
9398	Normally Open/Closed	0=NO, 1=NC
9399	Parameter 1	Additional configuration for some IO-functions
9400	Parameter 2	See appendices about D.OUT types
9401	Parameter 3	
9402	Parameter 4	
9403	Parameter 5	
9404	Parameter 6	
9405	Parameter 7	

3.1.59.20 Configuration digital out IO module 3 D.OUT 4

9406	Digital out type	
9407	Object number	Pump reference etc.
9408	Normally Open/Closed	0=NO, 1=NC
9409	Parameter 1	Additional configuration for some IO-functions
9410	Parameter 2	See appendices about D.OUT types
9411	Parameter 3	
9412	Parameter 4	
9413	Parameter 5	
9414	Parameter 6	

Register no	Description	Scale factor / unit / note
9415	Parameter 7	
3.1.59.21 Configuration digital out IO module 3 D.OUT 5		
9416	Digital out type	
9417	Object number	Pump reference etc.
9418	Normally Open/Closed	0=NO, 1=NC
9419	Parameter 1	Additional configuration for some IO-functions
9420	Parameter 2	See appendices about D.OUT types
9421	Parameter 3	
9422	Parameter 4	
9423	Parameter 5	
9424	Parameter 6	
9425	Parameter 7	

3.1.59.22 Configuration digital out IO module 3 D.OUT 6

9426	Digital out type	
9427	Object number	Pump reference etc.
9428	Normally Open/Closed	0=NO, 1=NC
9429	Parameter 1	Additional configuration for some IO-functions
9430	Parameter 2	See appendices about D.OUT types
9431	Parameter 3	
9432	Parameter 4	
9433	Parameter 5	
9434	Parameter 6	
9435	Parameter 7	

3.1.59.23 Configuration digital out IO module 3 D.OUT 7

9436	Digital out type	
9437	Object number	Pump reference etc.
9438	Normally Open/Closed	0=NO, 1=NC
9439	Parameter 1	Additional configuration for some IO-functions
9440	Parameter 2	See appendices about D.OUT types
9441	Parameter 3	
9442	Parameter 4	
9443	Parameter 5	
9444	Parameter 6	
9445	Parameter 7	

3.1.59.24 Configuration digital out IO module 3 D.OUT 8

9446	Digital out type	
9447	Object number	Pump reference etc.
9448	Normally Open/Closed	0=NO, 1=NC
9449	Parameter 1	Additional configuration for some IO-functions
9450	Parameter 2	See appendices about D.OUT types
9451	Parameter 3	
9452	Parameter 4	
9453	Parameter 5	
9454	Parameter 6	
9455	Parameter 7	

3.1.59.25 Configuration digital out IO module 4 D.OUT 1

9456	Digital out type	
9457	Object number	Pump reference etc.
9458	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
9459	Parameter 1	Additional configuration for some IO-functions
9460	Parameter 2	See appendices about D.OUT types
9461	Parameter 3	
9462	Parameter 4	
9463	Parameter 5	
9464	Parameter 6	
9465	Parameter 7	

3.1.59.26 Configuration digital out IO module 4 D.OUT 2

9466	Digital out type	
9467	Object number	Pump reference etc.
9468	Normally Open/Closed	0=NO, 1=NC
9469	Parameter 1	Additional configuration for some IO-functions
9470	Parameter 2	See appendices about D.OUT types
9471	Parameter 3	
9472	Parameter 4	
9473	Parameter 5	
9474	Parameter 6	
9475	Parameter 7	

3.1.59.27 Configuration digital out IO module 4 D.OUT 3

9476	Digital out type	
9477	Object number	Pump reference etc.
9478	Normally Open/Closed	0=NO, 1=NC
9479	Parameter 1	Additional configuration for some IO-functions
9480	Parameter 2	See appendices about D.OUT types
9481	Parameter 3	
9482	Parameter 4	
9483	Parameter 5	
9484	Parameter 6	
9485	Parameter 7	

3.1.59.28 Configuration digital out IO module 4 D.OUT 4

9486	Digital out type	
9487	Object number	Pump reference etc.
9488	Normally Open/Closed	0=NO, 1=NC
9489	Parameter 1	Additional configuration for some IO-functions
9490	Parameter 2	See appendices about D.OUT types
9491	Parameter 3	
9492	Parameter 4	
9493	Parameter 5	
9494	Parameter 6	
9495	Parameter 7	

3.1.59.29 Configuration digital out IO module 4 D.OUT 5

9496	Digital out type	
9497	Object number	Pump reference etc.
9498	Normally Open/Closed	0=NO, 1=NC
9499	Parameter 1	Additional configuration for some IO-functions
9500	Parameter 2	See appendices about D.OUT types
9501	Parameter 3	
9502	Parameter 4	
9503	Parameter 5	
9504	Parameter 6	
9505	Parameter 7	

Register no	Description	Scale factor / unit / note
3.1.59.30 Configuration digital out IO module 4 D.OUT 6		
9506	Digital out type	
9507	Object number	Pump reference etc.
9508	Normally Open/Closed	0=NO, 1=NC
9509	Parameter 1	Additional configuration for some IO-functions
9510	Parameter 2	See appendices about D.OUT types
9511	Parameter 3	
9512	Parameter 4	
9513	Parameter 5	
9514	Parameter 6	
9515	Parameter 7	

3.1.59.31 Configuration digital out IO module 4 D.OUT 7

9516	Digital out type	
9517	Object number	Pump reference etc.
9518	Normally Open/Closed	0=NO, 1=NC
9519	Parameter 1	Additional configuration for some IO-functions
9520	Parameter 2	See appendices about D.OUT types
9521	Parameter 3	
9522	Parameter 4	
9523	Parameter 5	
9524	Parameter 6	
9525	Parameter 7	

3.1.59.32 Configuration digital out IO module 4 D.OUT 8

9526	Digital out type	
9527	Object number	Pump reference etc.
9528	Normally Open/Closed	0=NO, 1=NC
9529	Parameter 1	Additional configuration for some IO-functions
9530	Parameter 2	See appendices about D.OUT types
9531	Parameter 3	
9532	Parameter 4	
9533	Parameter 5	
9534	Parameter 6	
9535	Parameter 7	

3.1.59.33 Configuration digital out IO module 5 D.OUT 1

9536	Digital out type	
9537	Object number	Pump reference etc.
9538	Normally Open/Closed	0=NO, 1=NC
9539	Parameter 1	Additional configuration for some IO-functions
9540	Parameter 2	See appendices about D.OUT types
9541	Parameter 3	
9542	Parameter 4	
9543	Parameter 5	
9544	Parameter 6	
9545	Parameter 7	

3.1.59.34 Configuration digital out IO module 5 D.OUT 2

9546	Digital out type	
9547	Object number	Pump reference etc.
9548	Normally Open/Closed	0=NO, 1=NC
9549	Parameter 1	Additional configuration for some IO-functions
9550	Parameter 2	See appendices about D.OUT types
9551	Parameter 3	
9552	Parameter 4	

Register no	Description	Scale factor / unit / note
9553	Parameter 5	
9554	Parameter 6	
9555	Parameter 7	

3.1.59.35 Configuration digital out IO module 5 D.OUT 3

9556	Digital out type	
9557	Object number	Pump reference etc.
9558	Normally Open/Closed	0=NO, 1=NC
9559	Parameter 1	Additional configuration for some IO-functions
9560	Parameter 2	See appendices about D.OUT types
9561	Parameter 3	
9562	Parameter 4	
9563	Parameter 5	
9564	Parameter 6	
9565	Parameter 7	

3.1.59.36 Configuration digital out IO module 5 D.OUT 4

9566	Digital out type	
9567	Object number	Pump reference etc.
9568	Normally Open/Closed	0=NO, 1=NC
9569	Parameter 1	Additional configuration for some IO-functions
9570	Parameter 2	See appendices about D.OUT types
9571	Parameter 3	
9572	Parameter 4	
9573	Parameter 5	
9574	Parameter 6	
9575	Parameter 7	

3.1.59.37 Configuration digital out IO module 5 D.OUT 5

9576	Digital out type	
9577	Object number	Pump reference etc.
9578	Normally Open/Closed	0=NO, 1=NC
9579	Parameter 1	Additional configuration for some IO-functions
9580	Parameter 2	See appendices about D.OUT types
9581	Parameter 3	
9582	Parameter 4	
9583	Parameter 5	
9584	Parameter 6	
9585	Parameter 7	

3.1.59.38 Configuration digital out IO module 5 D.OUT 6

9586	Digital out type	
9587	Object number	Pump reference etc.
9588	Normally Open/Closed	0=NO, 1=NC
9589	Parameter 1	Additional configuration for some IO-functions
9590	Parameter 2	See appendices about D.OUT types
9591	Parameter 3	
9592	Parameter 4	
9593	Parameter 5	
9594	Parameter 6	
9595	Parameter 7	

3.1.59.39 Configuration digital out IO module 5 D.OUT 7

9596	Digital out type	
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Register no	Description	Scale factor / unit / note
9597	Object number	Pump reference etc.
9598	Normally Open/Closed	0=NO, 1=NC
9599	Parameter 1	Additional configuration for some IO-functions
9600	Parameter 2	See appendices about D.OUT types
9601	Parameter 3	
9602	Parameter 4	
9603	Parameter 5	
9604	Parameter 6	
9605	Parameter 7	

3.1.59.40 Configuration digital out IO module 5 D.OUT 8

9606	Digital out type	
9607	Object number	Pump reference etc.
9608	Normally Open/Closed	0=NO, 1=NC
9609	Parameter 1	Additional configuration for some IO-functions
9610	Parameter 2	See appendices about D.OUT types
9611	Parameter 3	
9612	Parameter 4	
9613	Parameter 5	
9614	Parameter 6	
9615	Parameter 7	

3.1.59.41 Configuration digital out IO module 6 D.OUT 1

9616	Digital out type	
9617	Object number	Pump reference etc.
9618	Normally Open/Closed	0=NO, 1=NC
9619	Parameter 1	Additional configuration for some IO-functions
9620	Parameter 2	See appendices about D.OUT types
9621	Parameter 3	
9622	Parameter 4	
9623	Parameter 5	
9624	Parameter 6	
9625	Parameter 7	

3.1.59.42 Configuration digital out IO module 6 D.OUT 2

9626	Digital out type	
9627	Object number	Pump reference etc.
9628	Normally Open/Closed	0=NO, 1=NC
9629	Parameter 1	Additional configuration for some IO-functions
9630	Parameter 2	See appendices about D.OUT types
9631	Parameter 3	
9632	Parameter 4	
9633	Parameter 5	
9634	Parameter 6	
9635	Parameter 7	

3.1.59.43 Configuration digital out IO module 6 D.OUT 3

9636	Digital out type	
9637	Object number	Pump reference etc.
9638	Normally Open/Closed	0=NO, 1=NC
9639	Parameter 1	Additional configuration for some IO-functions
9640	Parameter 2	See appendices about D.OUT types
9641	Parameter 3	
9642	Parameter 4	
9643	Parameter 5	
9644	Parameter 6	

Register no	Description	Scale factor / unit / note
9645	Parameter 7	
3.1.59.44 Configuration digital out IO module 6 D.OUT 4		
9646	Digital out type	
9647	Object number	Pump reference etc.
9648	Normally Open/Closed	0=NO, 1=NC
9649	Parameter 1	Additional configuration for some IO-functions
9650	Parameter 2	See appendices about D.OUT types
9651	Parameter 3	
9652	Parameter 4	
9653	Parameter 5	
9654	Parameter 6	
9655	Parameter 7	

3.1.59.45 Configuration digital out IO module 6 D.OUT 5

9656	Digital out type	
9657	Object number	Pump reference etc.
9658	Normally Open/Closed	0=NO, 1=NC
9659	Parameter 1	Additional configuration for some IO-functions
9660	Parameter 2	See appendices about D.OUT types
9661	Parameter 3	
9662	Parameter 4	
9663	Parameter 5	
9664	Parameter 6	
9665	Parameter 7	

3.1.59.46 Configuration digital out IO module 6 D.OUT 6

9666	Digital out type	
9667	Object number	Pump reference etc.
9668	Normally Open/Closed	0=NO, 1=NC
9669	Parameter 1	Additional configuration for some IO-functions
9670	Parameter 2	See appendices about D.OUT types
9671	Parameter 3	
9672	Parameter 4	
9673	Parameter 5	
9674	Parameter 6	
9675	Parameter 7	

3.1.59.47 Configuration digital out IO module 6 D.OUT 7

9676	Digital out type	
9677	Object number	Pump reference etc.
9678	Normally Open/Closed	0=NO, 1=NC
9679	Parameter 1	Additional configuration for some IO-functions
9680	Parameter 2	See appendices about D.OUT types
9681	Parameter 3	
9682	Parameter 4	
9683	Parameter 5	
9684	Parameter 6	
9685	Parameter 7	

3.1.59.48 Configuration digital out IO module 6 D.OUT 8

9686	Digital out type	
9687	Object number	Pump reference etc.
9688	Normally Open/Closed	0=NO, 1=NC

Register no	Description	Scale factor / unit / note
9689	Parameter 1	Additional configuration for some IO-functions
9690	Parameter 2	See appendices about D.OUT types
9691	Parameter 3	
9692	Parameter 4	
9693	Parameter 5	
9694	Parameter 6	
9695	Parameter 7	

3.1.59.49 Configuration digital out IO module 7 D.OUT 1

9696	Digital out type	
9697	Object number	Pump reference etc.
9698	Normally Open/Closed	0=NO, 1=NC
9699	Parameter 1	Additional configuration for some IO-functions
9700	Parameter 2	See appendices about D.OUT types
9701	Parameter 3	
9702	Parameter 4	
9703	Parameter 5	
9704	Parameter 6	
9705	Parameter 7	

3.1.59.50 Configuration digital out IO module 7 D.OUT 2

9706	Digital out type	
9707	Object number	Pump reference etc.
9708	Normally Open/Closed	0=NO, 1=NC
9709	Parameter 1	Additional configuration for some IO-functions
9710	Parameter 2	See appendices about D.OUT types
9711	Parameter 3	
9712	Parameter 4	
9713	Parameter 5	
9714	Parameter 6	
9715	Parameter 7	

3.1.59.51 Configuration digital out IO module 7 D.OUT 3

9716	Digital out type	
9717	Object number	Pump reference etc.
9718	Normally Open/Closed	0=NO, 1=NC
9719	Parameter 1	Additional configuration for some IO-functions
9720	Parameter 2	See appendices about D.OUT types
9721	Parameter 3	
9722	Parameter 4	
9723	Parameter 5	
9724	Parameter 6	
9725	Parameter 7	

3.1.59.52 Configuration digital out IO module 7 D.OUT 4

9726	Digital out type	
9727	Object number	Pump reference etc.
9728	Normally Open/Closed	0=NO, 1=NC
9729	Parameter 1	Additional configuration for some IO-functions
9730	Parameter 2	See appendices about D.OUT types
9731	Parameter 3	
9732	Parameter 4	
9733	Parameter 5	
9734	Parameter 6	
9735	Parameter 7	

Register no	Description	Scale factor / unit / note
3.1.59.53 Configuration digital out IO module 7 D.OUT 5		
9736	Digital out type	
9737	Object number	Pump reference etc.
9738	Normally Open/Closed	0=NO, 1=NC
9739	Parameter 1	Additional configuration for some IO-functions
9740	Parameter 2	See appendices about D.OUT types
9741	Parameter 3	
9742	Parameter 4	
9743	Parameter 5	
9744	Parameter 6	
9745	Parameter 7	

3.1.59.54 Configuration digital out IO module 7 D.OUT 6

9746	Digital out type	
9747	Object number	Pump reference etc.
9748	Normally Open/Closed	0=NO, 1=NC
9749	Parameter 1	Additional configuration for some IO-functions
9750	Parameter 2	See appendices about D.OUT types
9751	Parameter 3	
9752	Parameter 4	
9753	Parameter 5	
9754	Parameter 6	
9755	Parameter 7	

3.1.59.55 Configuration digital out IO module 7 D.OUT 7

9756	Digital out type	
9757	Object number	Pump reference etc.
9758	Normally Open/Closed	0=NO, 1=NC
9759	Parameter 1	Additional configuration for some IO-functions
9760	Parameter 2	See appendices about D.OUT types
9761	Parameter 3	
9762	Parameter 4	
9763	Parameter 5	
9764	Parameter 6	
9765	Parameter 7	

3.1.59.56 Configuration digital out IO module 7 D.OUT 8

9766	Digital out type	
9767	Object number	Pump reference etc.
9768	Normally Open/Closed	0=NO, 1=NC
9769	Parameter 1	Additional configuration for some IO-functions
9770	Parameter 2	See appendices about D.OUT types
9771	Parameter 3	
9772	Parameter 4	
9773	Parameter 5	
9774	Parameter 6	
9775	Parameter 7	

3.1.59.57 Configuration digital out IO module 8 D.OUT 1

9776	Digital out type	
9777	Object number	Pump reference etc.
9778	Normally Open/Closed	0=NO, 1=NC
9779	Parameter 1	Additional configuration for some IO-functions
9780	Parameter 2	See appendices about D.OUT types
9781	Parameter 3	
9782	Parameter 4	

Register no	Description	Scale factor / unit / note
9783	Parameter 5	
9784	Parameter 6	
9785	Parameter 7	

3.1.59.58 Configuration digital out IO module 8 D.OUT 2

9786	Digital out type	
9787	Object number	Pump reference etc.
9788	Normally Open/Closed	0=NO, 1=NC
9789	Parameter 1	Additional configuration for some IO-functions
9790	Parameter 2	See appendices about D.OUT types
9791	Parameter 3	
9792	Parameter 4	
9793	Parameter 5	
9794	Parameter 6	
9795	Parameter 7	

3.1.59.59 Configuration digital out IO module 8 D.OUT 3

9796	Digital out type	
9797	Object number	Pump reference etc.
9798	Normally Open/Closed	0=NO, 1=NC
9799	Parameter 1	Additional configuration for some IO-functions
9800	Parameter 2	See appendices about D.OUT types
9801	Parameter 3	
9802	Parameter 4	
9803	Parameter 5	
9804	Parameter 6	
9805	Parameter 7	

3.1.59.60 Configuration digital out IO module 8 D.OUT 4

9806	Digital out type	
9807	Object number	Pump reference etc.
9808	Normally Open/Closed	0=NO, 1=NC
9809	Parameter 1	Additional configuration for some IO-functions
9810	Parameter 2	See appendices about D.OUT types
9811	Parameter 3	
9812	Parameter 4	
9813	Parameter 5	
9814	Parameter 6	
9815	Parameter 7	

3.1.59.61 Configuration digital out IO module 8 D.OUT 5

9816	Digital out type	
9817	Object number	Pump reference etc.
9818	Normally Open/Closed	0=NO, 1=NC
9819	Parameter 1	Additional configuration for some IO-functions
9820	Parameter 2	See appendices about D.OUT types
9821	Parameter 3	
9822	Parameter 4	
9823	Parameter 5	
9824	Parameter 6	
9825	Parameter 7	

3.1.59.62 Configuration digital out IO module 8 D.OUT 6

9826	Digital out type	
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Register no	Description	Scale factor / unit / note
9827	Object number	Pump reference etc.
9828	Normally Open/Closed	0=NO, 1=NC
9829	Parameter 1	Additional configuration for some IO-functions
9830	Parameter 2	See appendices about D.OUT types
9831	Parameter 3	
9832	Parameter 4	
9833	Parameter 5	
9834	Parameter 6	
9835	Parameter 7	

3.1.59.63 Configuration digital out IO module 8 D.OUT 7

9836	Digital out type	
9837	Object number	Pump reference etc.
9838	Normally Open/Closed	0=NO, 1=NC
9839	Parameter 1	Additional configuration for some IO-functions
9840	Parameter 2	See appendices about D.OUT types
9841	Parameter 3	
9842	Parameter 4	
9843	Parameter 5	
9844	Parameter 6	
9845	Parameter 7	

3.1.59.64 Configuration digital out IO module 8 D.OUT 8

9846	Digital out type	
9847	Object number	Pump reference etc.
9848	Normally Open/Closed	0=NO, 1=NC
9849	Parameter 1	Additional configuration for some IO-functions
9850	Parameter 2	See appendices about D.OUT types
9851	Parameter 3	
9852	Parameter 4	
9853	Parameter 5	
9854	Parameter 6	
9855	Parameter 7	

3.1.60 Configuration analogue out IO module 1-8

3.1.60.1 Configuration analogue out IO module 1 A.OUT 1

9856	Signal type	See appendices about signal types
9857	Signal index	0 - Max signal index
9858 + 9859	Scale constant 0/4 mA	in engineering units
9860 + 9861	Scale constant 20 mA	in engineering units
9862	mA flag	0=4-20 mA, 1=0-20 mA
9863	Unit option (for flow)	0=l/s, 1=m ³ /h
9864	Decimal count	(For register data)

3.1.60.2 Configuration analogue out IO module 1 A.OUT 2

9866	Signal type	See appendices about signal types
9867	Signal index	0 - Max signal index
9868 + 9869	Scale constant 0/4 mA	in engineering units
9870 + 9871	Scale constant 20 mA	in engineering units
9872	mA flag	0=4-20 mA, 1=0-20 mA
9873	Unit option (for flow)	0=l/s, 1=m ³ /h
9874	Decimal count	(For register data)

Register no	Description	Scale factor / unit / note
3.1.60.3 Configuration analogue out IO module 2 A.OUT 1		
9876	Signal type	See appendices about signal types
9877	Signal index	0 - Max signal index
9878 + 9879	Scale constant 0/4 mA	in engineering units
9880 + 9881	Scale constant 20 mA	in engineering units
9882	mA flag	0=4-20 mA, 1=0-20 mA
9883	Unit option (for flow)	0=l/s, 1=m3/h
9884	Decimal count	(For register data)

3.1.60.4 Configuration analogue out IO module 2 A.OUT 2

9886	Signal type	See appendices about signal types
9887	Signal index	0 - Max signal index
9888 + 9889	Scale constant 0/4 mA	in engineering units
9890 + 9891	Scale constant 20 mA	in engineering units
9892	mA flag	0=4-20 mA, 1=0-20 mA
9893	Unit option (for flow)	0=l/s, 1=m3/h
9894	Decimal count	(For register data)

3.1.60.5 Configuration analogue out IO module 3 A.OUT 1

9896	Signal type	See appendices about signal types
9897	Signal index	0 - Max signal index
9898 + 9899	Scale constant 0/4 mA	in engineering units
9900 + 9901	Scale constant 20 mA	in engineering units
9902	mA flag	0=4-20 mA, 1=0-20 mA
9903	Unit option (for flow)	0=l/s, 1=m3/h
9904	Decimal count	(For register data)

3.1.60.6 Configuration analogue out IO module 3 A.OUT 2

9906	Signal type	See appendices about signal types
9907	Signal index	0 - Max signal index
9908 + 9909	Scale constant 0/4 mA	in engineering units
9910 + 9911	Scale constant 20 mA	in engineering units
9912	mA flag	0=4-20 mA, 1=0-20 mA
9913	Unit option (for flow)	0=l/s, 1=m3/h
9914	Decimal count	(For register data)

3.1.60.7 Configuration analogue out IO module 4 A.OUT 1

9916	Signal type	See appendices about signal types
9917	Signal index	0 - Max signal index
9918 + 9919	Scale constant 0/4 mA	in engineering units
9920 + 9921	Scale constant 20 mA	in engineering units
9922	mA flag	0=4-20 mA, 1=0-20 mA
9923	Unit option (for flow)	0=l/s, 1=m3/h
9924	Decimal count	(For register data)

3.1.60.8 Configuration analogue out IO module 4 A.OUT 2

9926	Signal type	See appendices about signal types
9927	Signal index	0 - Max signal index
9928 + 9929	Scale constant 0/4 mA	in engineering units
9930 + 9931	Scale constant 20 mA	in engineering units
9932	mA flag	0=4-20 mA, 1=0-20 mA
9933	Unit option (for flow)	0=l/s, 1=m3/h
9934	Decimal count	(For register data)

Register no	Description	Scale factor / unit / note
3.1.60.9 Configuration analogue out IO module 5 A.OUT 1		
9936	Signal type	See appendices about signal types
9937	Signal index	0 - Max signal index
9938 + 9939	Scale constant 0/4 mA	in engineering units
9940 + 9941	Scale constant 20 mA	in engineering units
9942	mA flag	0=4-20 mA, 1=0-20 mA
9943	Unit option (for flow)	0=l/s, 1=m3/h
9944	Decimal count	(For register data)

3.1.60.10 Configuration analogue out IO module 5 A.OUT 2

9946	Signal type	See appendices about signal types
9947	Signal index	0 - Max signal index
9948 + 9949	Scale constant 0/4 mA	in engineering units
9950 + 9951	Scale constant 20 mA	in engineering units
9952	mA flag	0=4-20 mA, 1=0-20 mA
9953	Unit option (for flow)	0=l/s, 1=m3/h
9954	Decimal count	(For register data)

3.1.60.11 Configuration analogue out IO module 6 A.OUT 1

9956	Signal type	See appendices about signal types
9957	Signal index	0 - Max signal index
9958 + 9959	Scale constant 0/4 mA	in engineering units
9960 + 9961	Scale constant 20 mA	in engineering units
9962	mA flag	0=4-20 mA, 1=0-20 mA
9963	Unit option (for flow)	0=l/s, 1=m3/h
9964	Decimal count	(For register data)

3.1.60.12 Configuration analogue out IO module 6 A.OUT 2

9966	Signal type	See appendices about signal types
9967	Signal index	0 - Max signal index
9968 + 9969	Scale constant 0/4 mA	in engineering units
9970 + 9971	Scale constant 20 mA	in engineering units
9972	mA flag	0=4-20 mA, 1=0-20 mA
9973	Unit option (for flow)	0=l/s, 1=m3/h
9974	Decimal count	(For register data)

3.1.60.13 Configuration analogue out IO module 7 A.OUT 1

9976	Signal type	See appendices about signal types
9977	Signal index	0 - Max signal index
9978 + 9979	Scale constant 0/4 mA	in engineering units
9980 + 9981	Scale constant 20 mA	in engineering units
9982	mA flag	0=4-20 mA, 1=0-20 mA
9983	Unit option (for flow)	0=l/s, 1=m3/h
9984	Decimal count	(For register data)

3.1.60.14 Configuration analogue out IO module 7 A.OUT 2

9986	Signal type	See appendices about signal types
9987	Signal index	0 - Max signal index
9988 + 9989	Scale constant 0/4 mA	in engineering units
9990 + 9991	Scale constant 20 mA	in engineering units
9992	mA flag	0=4-20 mA, 1=0-20 mA
9993	Unit option (for flow)	0=l/s, 1=m3/h
9994	Decimal count	(For register data)

Register no	Description	Scale factor / unit / note
3.1.60.15 Configuration analogue out IO module 8 A.OUT 1		
9996	Signal type	See appendices about signal types
9997	Signal index	0 - Max signal index
9998 + 9999	Scale constant 0/4 mA	in engineering units
10000 + 10001	Scale constant 20 mA	in engineering units
10002	mA flag	0=4-20 mA, 1=0-20 mA
10003	Unit option (for flow)	0=l/s, 1=m ³ /h
10004	Decimal count	(For register data)
3.1.60.16 Configuration analogue out IO module 8 A.OUT 2		
10006	Signal type	See appendices about signal types
10007	Signal index	0 - Max signal index
10008 + 10009	Scale constant 0/4 mA	in engineering units
10010 + 10011	Scale constant 20 mA	in engineering units
10012	mA flag	0=4-20 mA, 1=0-20 mA
10013	Unit option (for flow)	0=l/s, 1=m ³ /h
10014	Decimal count	(For register data)
3.1.61 Configuration of panel LED's (see also reg.12100-12131 for signal no.)		
10016	Signal type LED 1	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10017	Signal number LED 1	alarm / IO no
10018	Signal type LED 2	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10019	Signal number LED 2	alarm / IO no
10020	Signal type LED 3	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10021	Signal number LED 3	alarm / IO no
10022	Signal type LED 4	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10023	Signal number LED 4	alarm / IO no
10024	Signal type LED 5	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10025	Signal number LED 5	alarm / IO no
10026	Signal type LED 6	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10027	Signal number LED 6	alarm / IO no
10028	Signal type LED 7	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10029	Signal number LED 7	alarm / IO no
10030	Signal type LED 8	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10031	Signal number LED 8	alarm / IO no
10032	Signal type LED 9	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10033	Signal number LED 9	alarm / IO no
10034	Signal type LED 10	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10035	Signal number LED 10	alarm / IO no
10036	Signal type LED 11	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10037	Signal number LED 11	alarm / IO no
10038	Signal type LED 12	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10039	Signal number LED 12	alarm / IO no
10040	Signal type LED 13	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10041	Signal number LED 13	alarm / IO no
10042	Signal type LED 14	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10043	Signal number LED 14	alarm / IO no
10044	Signal type LED 15	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10045	Signal number LED 15	alarm / IO no
10046	Signal type LED 16	0=Off, 1=D.OUT, 2=D.IN,3=Alarm no, 4=IO-bit
10047	Signal number LED 16	alarm / IO no
3.1.62 Access codes		
10048	Operator code	
10049	System code	

Register no	Description	Scale factor / unit / note
3.1.63	Alarm dial, common set-up	
10050	First alarm number for personal alarm	1-4 (configured in F.815)
10051	Block alarm dialling in local mode	(dial up only for personal alarm)
10052	Station number	Also on reg. 584
10053	Local alarm acknowledge when writing to Reg. 333	
10054	Redial pause	sec
10055	Acknowledges method	0=Off, 1=Ring, 2=Reg.333, 3=Comli/Modbus contact
3.1.64	Alarm dialup alarm number 1-4	
3.1.64.1	Alarm dialup alarm number 1	
10056	Alarm function	0=Off, 1=GSM, 2=C.system,3=Fix,4=M-call,5=SMS
10057	Alarm (modem) port	0=Com 1, 1=Com 2, up to 7=Com 8
10058	Acknowledge timeout	sec
10059	Dial condition for C-system	0=A on, 1=A on/off, 2=A+B on, 3=A+B on/off
3.1.64.2	Alarm dialup alarm number 2	
10060	Alarm function	0=Off, 1=GSM, 2=C.system,3=Fix,4=M-call,5=SMS
10061	Alarm (modem) port	0=Com 1, 1=Com 2, up to 7=Com 8
10062	Acknowledge timeout	sec
10063	Dial condition for C-system	0=A on, 1=A on/off, 2=A+B on, 3=A+B on/off
3.1.64.3	Alarm dialup alarm number 3	
10064	Alarm function	0=Off, 1=GSM, 2=C.system,3=Fix,4=M-call,5=SMS
10065	Alarm (modem) port	0=Com 1, 1=Com 2, up to 7=Com 8
10066	Acknowledge timeout	sec
10067	Dial condition for C-system	0=A on, 1=A on/off, 2=A+B on, 3=A+B on/off
3.1.64.4	Alarm dialup alarm number 4	
10068	Alarm function	0=Off, 1=GSM, 2=C.system,3=Fix,4=M-call, 5=SMS
10069	Alarm (modem) port	0=Com 1, 1=Com 2, up to 7=Com 8
10070	Acknowledge timeout	sec
10071	Dial condition for C-system	0=A on, 1=A on/off, 2=A+B on, 3=A+B on/off
3.1.65	Local alarm acknowledge	
10072	Access level for alarm acknowledge	0=None, 1=Operator code, 2=Personal code
3.1.66	Personal access codes	
10073	Access code for alarm acknowledge person 1	
10074	Access code for alarm acknowledge person 2	
10075	Access code for alarm acknowledge person 3	
10076	Access code for alarm acknowledge person 4	
10077	Access code for alarm acknowledge person 5	
10078	Access code for alarm acknowledge person 6	
10079	Access code for alarm acknowledge person 7	
10080	Access code for alarm acknowledge person 8	
10081	Access code for alarm acknowledge person 9	
3.1.67	Scaling of inflow value 0-65535	
10082	Scale constant 0% for reg. 5	l/s
10083	Scale constant 100% (65535) for reg. 5	l/s
10084	Scale constant 0% for reg. 6	l/s

Register no	Description	Scale factor / unit / note
10085	Scale constant 100% (65535) for reg. 6	l/s
10086	Scale constant 0% for reg. 7	l/s
10087	Scale constant 100% (65535) for reg. 7	l/s
10088	Scale constant 0% for reg. 8	l/s
10089	Scale constant 100% (65535) for reg. 8	l/s

3.1.68 Scaling of outflow value 0-65535

10090	Scale constant 0% for reg. 9	l/s
10091	Scale constant 100% (65535) for reg. 9	l/s
10092	Scale constant 0% for reg. 10	l/s
10093	Scale constant 100% (65535) for reg. 10	l/s
10094	Scale constant 0% for reg. 11	l/s
10095	Scale constant 100% (65535) for reg. 11	l/s
10096	Scale constant 0% for reg. 12	l/s
10097	Scale constant 100% (65535) for reg. 12	l/s

3.1.69 Scaling of overflow value 0-65535

10098	Scale constant 0% for reg. 13	l/s
10099	Scale constant 100% (65535) for reg. 13	l/s
10100	Scale constant 0% for reg. 14	l/s
10101	Scale constant 100% (65535) for reg. 14	l/s
10102	Scale constant 0% for reg. 15	l/s
10103	Scale constant 100% (65535) for reg. 15	l/s
10104	Scale constant 0% for reg. 16	l/s
10105	Scale constant 100% (65535) for reg. 16	l/s

3.1.70 Scaling of flow value 0-65535

10106	Scale constant 0% for reg. 17	l/s
10107	Scale constant 100% (65535) for reg. 17	l/s
10108	Scale constant 0% for reg. 18	l/s
10109	Scale constant 100% (65535) for reg. 18	l/s
10110	Scale constant 0% for reg. 19	l/s
10111	Scale constant 100% (65535) for reg. 19	l/s
10112	Scale constant 0% for reg. 20	l/s
10113	Scale constant 100% (65535) for reg. 20	l/s

3.1.71 Scaling of overflow level 0-65535

10114	Scale constant 0% for reg. 21	mm
10115	Scale constant 100% (65535) for reg. 21	mm
10116	Scale constant 0% for reg. 22	mm
10117	Scale constant 100% (65535) for reg. 22	mm
10118	Scale constant 0% for reg. 23	mm
10119	Scale constant 100% (65535) for reg. 23	mm
10120	Scale constant 0% for reg. 24	mm
10121	Scale constant 100% (65535) for reg. 24	mm

3.1.72 Scaling of flow level 0-65535

10122	Scale constant 0% for reg. 25	mm
10123	Scale constant 100% (65535) for reg. 25	mm
10124	Scale constant 0% for reg. 26	mm
10125	Scale constant 100% (65535) for reg. 26	mm
10126	Scale constant 0% for reg. 27	mm
10127	Scale constant 100% (65535) for reg. 27	mm
10128	Scale constant 0% for reg. 28	mm

Register no	Description	Scale factor / unit / note
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10129	Scale constant 100% (65535) for reg. 28	mm
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3.1.73 Scaling of pulse channel actual flow 0-65535

10130	Scale constant 0% for reg. 29	(l/s,m3/h,kW,l/s*ha)
10131	Scale constant 100% (65535) for reg. 29	(l/s,m3/h,kW,l/s*ha)
10132	Scale constant 0% for reg. 30	(l/s,m3/h,kW,l/s*ha)
10133	Scale constant 100% (65535) for reg. 30	(l/s,m3/h,kW,l/s*ha)
10134	Scale constant 0% for reg. 31	(l/s,m3/h,kW,l/s*ha)
10135	Scale constant 100% (65535) for reg. 31	(l/s,m3/h,kW,l/s*ha)
10136	Scale constant 0% for reg. 32	(l/s,m3/h,kW,l/s*ha)
10137	Scale constant 100% (65535) for reg. 32	(l/s,m3/h,kW,l/s*ha)
10138	Scale constant 0% for reg. 33	(l/s,m3/h,kW,l/s*ha)
10139	Scale constant 100% (65535) for reg. 33	(l/s,m3/h,kW,l/s*ha)
10140	Scale constant 0% for reg. 34	(l/s,m3/h,kW,l/s*ha)
10141	Scale constant 100% (65535) for reg. 34	(l/s,m3/h,kW,l/s*ha)
10142	Scale constant 0% for reg. 35	(l/s,m3/h,kW,l/s*ha)
10143	Scale constant 100% (65535) for reg. 35	(l/s,m3/h,kW,l/s*ha)
10144	Scale constant 0% for reg. 36	(l/s,m3/h,kW,l/s*ha)
10145	Scale constant 100% (65535) for reg. 36	(l/s,m3/h,kW,l/s*ha)

3.1.74 Shift motor 3

Se also reg. 11604-11648 for shift motor 1-2.

10146	IO-Modul index AI.setpoint	0-4 (IO modul 1-5)
10147	AI- index to AI.setpoint	0-3 (AI no 1-4)
10148	IO-Modul index AI.feedback	0-4 (IO modul 1-5)
10149	AI- index till AI.feedback	0-3 (AI no 1-4)
10150	Type of setpoint	0=Off, 1=A.IN, 2=Man, 3=Rem.
10151+10152	Manual setpoint	0.001 units (A.IN feedback unit)
10153+10154	Remote setpoint	0.001 units (A.IN feedback unit)
10155+10156	Dead zone	0.001 units (A.IN feedback unit)
10157+10158	Feedback position at end contact MAX	0.001 units (for feedback position sensor check)
10159+10160	Feedback position at end contact MIN	0.001 units (for feedback position sensor check)
10161+10162	Max deviation for end contacts	0.001 units
10163	Pause time between pulses	0-9999 sec.
10164	Max. Pulse time	0-9999 sec.
10165+10166	Setpoint for DI <i>FORCE SHIFT MOTOR</i>	0.001 units

3.1.75 Shift motor 4

10167	IO-Modul index AI.setpoint	0-4 (IO modul 1-5)
10168	AI- index to AI.setpoint	0-3 (AI no 1-4)
10169	IO-Modul index AI.feedback	0-4 (IO modul 1-5)
10170	AI- index till AI.feedback	0-3 (AI no 1-4)
10171	Type of setpoint	0=Off, 1=A.IN, 2=Man, 3=Rem.
10172+10173	Manual setpoint	0.001 units (A.IN feedback unit)
10174+10175	Remote setpoint	0.001 units (A.IN feedback unit)
10176+10177	Dead zone	0.001 units (A.IN feedback unit)
10178+10179	Feedback position at end contact MAX	0.001 units (for feedback position sensor check)
10180+10181	Feedback position at end contact MIN	0.001 units (for feedback position sensor check)
10182+10183	Max deviation for end contacts	0.001 units
10184	Pause time between pulses	0-9999 sec.
10185	Max. Pulse time	0-9999 sec.
10186+10187	Setpoint for DI <i>FORCE SHIFT MOTOR</i>	0.001 units

3.1.76 Max. no of messages / GSM alarm dial

10188	No of GSM messages alarm number 1	Depends on operator
10189	No of GSM messages alarm number 2	Depends on operator
10190	No of GSM messages alarm number 3	Depends on operator
10191	No of GSM messages alarm number 4	Depends on operator

Register no	Description	Scale factor / unit / note
3.1.77	Minicall configuration receiver 1-4	
3.1.77.1	Minicall configuration receiver 1	
10192	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10193	Texts to transmit	0=Only station id, 1=Full alarm text
10194	Legitimisation code	Normally 0
3.1.77.2	Minicall configuration receiver 2	
10196	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10197	Texts to transmit	0=Only station id, 1=Full alarm text
10198	Legitimisation code	Normally 0
3.1.77.3	Minicall configuration receiver 3	
10200	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10201	Texts to transmit	0=Only station id, 1=Full alarm text
10202	Legitimisation code	Normally 0
3.1.77.4	Minicall configuration receiver 4	
10204	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10205	Texts to transmit	0=Only station id, 1=Full alarm text
10206	Legitimisation code	Normally 0
3.1.78	GSM configuration receiver 1-4	
3.1.78.1	GSM configuration receiver 1	
10208	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10209	Texts to transmit	0=Only station id, 1=Full alarm text
3.1.78.2	GSM configuration receiver 2	
10212	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10213	Texts to transmit	0=Only station id, 1=Full alarm text
3.1.78.3	GSM configuration receiver 3	
10216	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10217	Texts to transmit	0=Only station id, 1=Full alarm text
3.1.78.4	GSM configuration receiver 4	
10220	Receiver type	0=Off, 1=Text, 2=Number, 3=Tone
10221	Texts to transmit	0=Only station id, 1=Full alarm text
3.1.79	Max baud rate for Minicall alarm dial	
10224	Max. baud for minicall alarm	3=1200, 4=2400, 5=4800, 6=9600, 7=19200
3.1.80	No alarm dial retries	
10225	Max. alarm redial count	3-999

Register no	Description	Scale factor / unit / note
3.1.81	Free running second counters	
10237 + 10238	Second counter 1	
10239 + 10240	Second counter 2	
10241 + 10242	Second counter 3	
10243 + 10244	Second counter 4	
10245 + 10246	Second counter 5	
10247 + 10248	Second counter 6	
10249 + 10250	Second counter 7	
10251 + 10252	Second counter 8	
10253 + 10254	Second counter 9	
10255 + 10256	Second counter 10	
3.1.82	Comli/Modbus master channel 1-8	
3.1.82.1	Comli/Modbus master channel 1	
10257	Com. interval	sec (0=timer disabled)
10258	Line type	0=Off, 1=Fixed line, 2=Tele modem
10259	Com. port	0=Com 1, 1=Com 2
10260	slave identity	1-255
3.1.82.2	Comli/Modbus master channel 2	
10262	Com. interval	sec (0=timer disabled)
10263	Line type	0=Off, 1=Fixed line, 2=Tele modem
10264	Com. port	0=Com 1, 1=Com 2
10265	slave identity	1-255
3.1.82.3	Comli/Modbus master channel 3	
10267	Com. interval	sec (0=timer disabled)
10268	Line type	0=Off, 1=Fixed line, 2=Tele modem
10269	Com. port	0=Com 1, 1=Com 2
10270	slave identity	1-255
3.1.82.4	Comli/Modbus master channel 4	
10272	Com. interval	sec (0=timer disabled)
10273	Line type	0=Off, 1=Fixed line, 2=Tele modem
10274	Com. port	0=Com 1, 1=Com 2
10275	Slave identity	1-255
3.1.82.5	Comli/Modbus master channel 5	
10277	Com. interval	sec (0=timer disabled)
10278	Line type	0=Off, 1=Fixed line, 2=Tele modem
10279	Com. port	0=Com 1, 1=Com 2
10280	Slave identity	1-255
3.1.82.6	Comli/Modbus master channel 6	
10282	Com. interval	sec (0=timer disabled)
10283	Line type	0=Off, 1=Fixed line, 2=Tele modem
10284	Com. port	0=Com 1, 1=Com 2
10285	Slave identity	1-255
3.1.82.7	Comli/Modbus master channel 7	
10287	Com. interval	sec (0=timer disabled)

Register no	Description	Scale factor / unit / note
10288	Line type	0=Off, 1=Fixed line, 2=Tele modem
10289	Com. port	0=Com 1, 1=Com 2
10290	Slave identity	1-255
3.1.82.8 Comli/Modbus master channel 8		
10292	Com. interval	sec (0=timer disabled)
10293	Line type	0=Off, 1=Fixed line, 2=Tele modem
10294	Com. port	0=Com 1, 1=Com 2
10295	Slave identity	1-255
3.1.83 Comli master message 1-127		
3.1.83.1 Comli master message 1		
10297	Master channel	0-7
10298	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10299	Read from / Write to	0=Read, 1=Write
10300	Local IO / reg. no	
10301	Slave IO / reg. no	
3.1.83.2 Comli master message 2		
10303	Master channel	0-7
10304	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10305	Read from / Write to	0=Read, 1=Write
10306	Local IO / reg. no	
10307	Slave IO / reg. no	
3.1.83.3 Comli master message 3		
10309	Master channel	0-7
10310	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10311	Read from / Write to	0=Read, 1=Write
10312	Local IO / reg. no	
10313	Slave IO / reg. no	
3.1.83.4 Comli master message 4		
10315	Master channel	0-7
10316	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10317	Read from / Write to	0=Read, 1=Write
10318	Local IO / reg. no	
10319	Slave IO / reg. no	
3.1.83.5 Comli master message 5		
10321	Master channel	0-7
10322	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10323	Read from / Write to	0=Read, 1=Write
10324	Local IO / reg. no	
10325	Slave IO / reg. no	
3.1.83.6 Comli master message 6		
10327	Master channel	0-7
10328	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10329	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
10330	Local IO / reg. no	
10331	Slave IO / reg. no	
3.1.83.7 Comli master message 7		
10333	Master channel	0-7
10334	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10335	Read from / Write to	0=Read, 1=Write
10336	Local IO / reg. no	
10337	Slave IO / reg. no	
3.1.83.8 Comli master message 8		
10339	Master channel	0-7
10340	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10341	Read from / Write to	0=Read, 1=Write
10342	Local IO / reg. no	
10343	Slave IO / reg. no	
3.1.83.9 Comli master message 9		
10345	Master channel	0-7
10346	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10347	Read from / Write to	0=Read, 1=Write
10348	Local IO / reg. no	
10349	Slave IO / reg. no	
3.1.83.10 Comli master message 10		
10351	Master channel	0-7
10352	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10353	Read from / Write to	0=Read, 1=Write
10354	Local IO / reg. no	
10355	Slave IO / reg. no	
3.1.83.11 Comli master message 11		
10357	Master channel	0-7
10358	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10359	Read from / Write to	0=Read, 1=Write
10360	Local IO / reg. no	
10361	Slave IO / reg. no	
3.1.83.12 Comli master message 12		
10363	Master channel	0-7
10364	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10365	Read from / Write to	0=Read, 1=Write
10366	Local IO / reg. no	
10367	Slave IO / reg. no	
3.1.83.13 Comli master message 13		
10369	Master channel	0-7
10370	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10371	Read from / Write to	0=Read, 1=Write
10372	Local IO / reg. no	
10373	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.14 Comli master message 14		
10375	Master channel	0-7
10376	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10377	Read from / Write to	0=Read, 1=Write
10378	Local IO / reg. no	
10379	Slave IO / reg. no	
3.1.83.15 Comli master message 15		
10381	Master channel	0-7
10382	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10383	Read from / Write to	0=Read, 1=Write
10384	Local IO / reg. no	
10385	Slave IO / reg. no	
3.1.83.16 Comli master message 16		
10387	Master channel	0-7
10388	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10389	Read from / Write to	0=Read, 1=Write
10390	Local IO / reg. no	
10391	Slave IO / reg. no	
3.1.83.17 Comli master message 17		
10393	Master channel	0-7
10394	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10395	Read from / Write to	0=Read, 1=Write
10396	Local IO / reg. no	
10397	Slave IO / reg. no	
3.1.83.18 Comli master message 18		
10399	Master channel	0-7
10400	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10401	Read from / Write to	0=Read, 1=Write
10402	Local IO / reg. no	
10403	Slave IO / reg. no	
3.1.83.19 Comli master message 19		
10405	Master channel	0-7
10406	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10407	Read from / Write to	0=Read, 1=Write
10408	Local IO / reg. no	
10409	Slave IO / reg. no	
3.1.83.20 Comli master message 20		
10411	Master channel	0-7
10412	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10413	Read from / Write to	0=Read, 1=Write
10414	Local IO / reg. no	
10415	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.21 Comli master message 21		
10417	Master channel	0-7
10418	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10419	Read from / Write to	0=Read, 1=Write
10420	Local IO / reg. no	
10421	Slave IO / reg. no	
3.1.83.22 Comli master message 22		
10423	Master channel	0-7
10424	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10425	Read from / Write to	0=Read, 1=Write
10426	Local IO / reg. no	
10427	Slave IO / reg. no	
3.1.83.23 Comli master message 23		
10429	Master channel	0-7
10430	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10431	Read from / Write to	0=Read, 1=Write
10432	Local IO / reg. no	
10433	Slave IO / reg. no	
3.1.83.24 Comli master message 24		
10435	Master channel	0-7
10436	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10437	Read from / Write to	0=Read, 1=Write
10438	Local IO / reg. no	
10439	Slave IO / reg. no	
3.1.83.25 Comli master message 25		
10441	Master channel	0-7
10442	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10443	Read from / Write to	0=Read, 1=Write
10444	Local IO / reg. no	
10445	Slave IO / reg. no	
3.1.83.26 Comli master message 26		
10447	Master channel	0-7
10448	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10449	Read from / Write to	0=Read, 1=Write
10450	Local IO / reg. no	
10451	Slave IO / reg. no	
3.1.83.27 Comli master message 27		
10453	Master channel	0-7
10454	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10455	Read from / Write to	0=Read, 1=Write
10456	Local IO / reg. no	
10457	Slave IO / reg. no	
3.1.83.28 Comli master message 28		
10459	Master channel	0-7

Register no	Description	Scale factor / unit / note
10460	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10461	Read from / Write to	0=Read, 1=Write
10462	Local IO / reg. no	
10463	Slave IO / reg. no	

3.1.83.29 Comli master message 29

10465	Master channel	0-7
10466	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10467	Read from / Write to	0=Read, 1=Write
10468	Local IO / reg. no	
10469	Slave IO / reg. no	

3.1.83.30 Comli master message 30

10471	Master channel	0-7
10472	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10473	Read from / Write to	0=Read, 1=Write
10474	Local IO / reg. no	
10475	Slave IO / reg. no	

3.1.83.31 Comli master message 31

10477	Master channel	0-7
10478	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10479	Read from / Write to	0=Read, 1=Write
10480	Local IO / reg. no	
10481	Slave IO / reg. no	

3.1.83.32 Comli master message 32

10483	Master channel	0-7
10484	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10485	Read from / Write to	0=Read, 1=Write
10486	Local IO / reg. no	
10487	Slave IO / reg. no	

3.1.83.33 Comli master message 33

10489	Master channel	0-7
10490	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10491	Read from / Write to	0=Read, 1=Write
10492	Local IO / reg. no	
10493	Slave IO / reg. no	

3.1.83.34 Comli master message 34

10495	Master channel	0-7
10496	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10497	Read from / Write to	0=Read, 1=Write
10498	Local IO / reg. no	
10499	Slave IO / reg. no	

3.1.83.35 Comli master message 35

10501	Master channel	0-7
10502	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10503	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
10504	Local IO / reg. no	
10505	Slave IO / reg. no	
3.1.83.36 Comli master message 36		
10507	Master channel	0-7
10508	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10509	Read from / Write to	0=Read, 1=Write
10510	Local IO / reg. no	
10511	Slave IO / reg. no	
3.1.83.37 Comli master message 37		
10513	Master channel	0-7
10514	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10515	Read from / Write to	0=Read, 1=Write
10516	Local IO / reg. no	
10517	Slave IO / reg. no	
3.1.83.38 Comli master message 38		
10519	Master channel	0-7
10520	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10521	Read from / Write to	0=Read, 1=Write
10522	Local IO / reg. no	
10523	Slave IO / reg. no	
3.1.83.39 Comli master message 39		
10525	Master channel	0-7
10526	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10527	Read from / Write to	0=Read, 1=Write
10528	Local IO / reg. no	
10529	Slave IO / reg. no	
3.1.83.40 Comli master message 40		
10531	Master channel	0-7
10532	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10533	Read from / Write to	0=Read, 1=Write
10534	Local IO / reg. no	
10535	Slave IO / reg. no	
3.1.83.41 Comli master message 41		
10537	Master channel	0-7
10538	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10539	Read from / Write to	0=Read, 1=Write
10540	Local IO / reg. no	
10541	Slave IO / reg. no	
3.1.83.42 Comli master message 42		
10543	Master channel	0-7
10544	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10545	Read from / Write to	0=Read, 1=Write
10546	Local IO / reg. no	
10547	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.43 Comli master message 43		
10549	Master channel	0-7
10550	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10551	Read from / Write to	0=Read, 1=Write
10552	Local IO / reg. no	
10553	Slave IO / reg. no	
3.1.83.44 Comli master message 44		
10555	Master channel	0-7
10556	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10557	Read from / Write to	0=Read, 1=Write
10558	Local IO / reg. no	
10559	Slave IO / reg. no	
3.1.83.45 Comli master message 45		
10561	Master channel	0-7
10562	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10563	Read from / Write to	0=Read, 1=Write
10564	Local IO / reg. no	
10565	Slave IO / reg. no	
3.1.83.46 Comli master message 46		
10567	Master channel	0-7
10568	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10569	Read from / Write to	0=Read, 1=Write
10570	Local IO / reg. no	
10571	Slave IO / reg. no	
3.1.83.47 Comli master message 47		
10573	Master channel	0-7
10574	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10575	Read from / Write to	0=Read, 1=Write
10576	Local IO / reg. no	
10577	Slave IO / reg. no	
3.1.83.48 Comli master message 48		
10579	Master channel	0-7
10580	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10581	Read from / Write to	0=Read, 1=Write
10582	Local IO / reg. no	
10583	Slave IO / reg. no	
3.1.83.49 Comli master message 49		
10585	Master channel	0-7
10586	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10587	Read from / Write to	0=Read, 1=Write
10588	Local IO / reg. no	
10589	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.50 Comli master message 50		
10591	Master channel	0-7
10592	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10593	Read from / Write to	0=Read, 1=Write
10594	Local IO / reg. no	
10595	Slave IO / reg. no	
3.1.83.51 Comli master message 51		
10597	Master channel	0-7
10598	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10599	Read from / Write to	0=Read, 1=Write
10600	Local IO / reg. no	
10601	Slave IO / reg. no	
3.1.83.52 Comli master message 52		
10603	Master channel	0-7
10604	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10605	Read from / Write to	0=Read, 1=Write
10606	Local IO / reg. no	
10607	Slave IO / reg. no	
3.1.83.53 Comli master message 53		
10609	Master channel	0-7
10610	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10611	Read from / Write to	0=Read, 1=Write
10612	Local IO / reg. no	
10613	Slave IO / reg. no	
3.1.83.54 Comli master message 54		
10615	Master channel	0-7
10616	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10617	Read from / Write to	0=Read, 1=Write
10618	Local IO / reg. no	
10619	Slave IO / reg. no	
3.1.83.55 Comli master message 55		
10621	Master channel	0-7
10622	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10623	Read from / Write to	0=Read, 1=Write
10624	Local IO / reg. no	
10625	Slave IO / reg. no	
3.1.83.56 Comli master message 56		
10627	Master channel	0-7
10628	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10629	Read from / Write to	0=Read, 1=Write
10630	Local IO / reg. no	
10631	Slave IO / reg. no	
3.1.83.57 Comli master message 57		
10633	Master channel	0-7

Register no	Description	Scale factor / unit / note
10634	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10635	Read from / Write to	0=Read, 1=Write
10636	Local IO / reg. no	
10637	Slave IO / reg. no	

3.1.83.58 Comli master message 58

10639	Master channel	0-7
10640	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10641	Read from / Write to	0=Read, 1=Write
10642	Local IO / reg. no	
10643	Slave IO / reg. no	

3.1.83.59 Comli master message 59

10645	Master channel	0-7
10646	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10647	Read from / Write to	0=Read, 1=Write
10648	Local IO / reg. no	
10649	Slave IO / reg. no	

3.1.83.60 Comli master message 60

10651	Master channel	0-7
10652	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10653	Read from / Write to	0=Read, 1=Write
10654	Local IO / reg. no	
10655	Slave IO / reg. no	

3.1.83.61 Comli master message 61

10657	Master channel	0-7
10658	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10659	Read from / Write to	0=Read, 1=Write
10660	Local IO / reg. no	
10661	Slave IO / reg. no	

3.1.83.62 Comli master message 62

10663	Master channel	0-7
10664	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10665	Read from / Write to	0=Read, 1=Write
10666	Local IO / reg. no	
10667	Slave IO / reg. no	

3.1.83.63 Comli master message 63

10669	Master channel	0-7
10670	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10671	Read from / Write to	0=Read, 1=Write
10672	Local IO / reg. no	
10673	Slave IO / reg. no	

3.1.83.64 Comli master message 64

10675	Master channel	0-7
10676	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10677	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
10678	Local IO / reg. no	
10679	Slave IO / reg. no	
3.1.83.65 Comli master message 65		
10681	Master channel	0-7
10682	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10683	Read from / Write to	0=Read, 1=Write
10684	Local IO / reg. no	
10685	Slave IO / reg. no	
3.1.83.66 Comli master message 66		
10687	Master channel	0-7
10688	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10689	Read from / Write to	0=Read, 1=Write
10690	Local IO / reg. no	
10691	Slave IO / reg. no	
3.1.83.67 Comli master message 67		
10693	Master channel	0-7
10694	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10695	Read from / Write to	0=Read, 1=Write
10696	Local IO / reg. no	
10697	Slave IO / reg. no	
3.1.83.68 Comli master message 68		
10699	Master channel	0-7
10700	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10701	Read from / Write to	0=Read, 1=Write
10702	Local IO / reg. no	
10703	Slave IO / reg. no	
3.1.83.69 Comli master message 69		
10705	Master channel	0-7
10706	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10707	Read from / Write to	0=Read, 1=Write
10708	Local IO / reg. no	
10709	Slave IO / reg. no	
3.1.83.70 Comli master message 70		
10711	Master channel	0-7
10712	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10713	Read from / Write to	0=Read, 1=Write
10714	Local IO / reg. no	
10715	Slave IO / reg. no	
3.1.83.71 Comli master message 71		
10717	Master channel	0-7
10718	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10719	Read from / Write to	0=Read, 1=Write
10720	Local IO / reg. no	
10721	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.72 Comli master message 72		
10723	Master channel	0-7
10724	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10725	Read from / Write to	0=Read, 1=Write
10726	Local IO / reg. no	
10727	Slave IO / reg. no	
3.1.83.73 Comli master message 73		
10729	Master channel	0-7
10730	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10731	Read from / Write to	0=Read, 1=Write
10732	Local IO / reg. no	
10733	Slave IO / reg. no	
3.1.83.74 Comli master message 74		
10735	Master channel	0-7
10736	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10737	Read from / Write to	0=Read, 1=Write
10738	Local IO / reg. no	
10739	Slave IO / reg. no	
3.1.83.75 Comli master message 75		
10741	Master channel	0-7
10742	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10743	Read from / Write to	0=Read, 1=Write
10744	Local IO / reg. no	
10745	Slave IO / reg. no	
3.1.83.76 Comli master message 76		
10747	Master channel	0-7
10748	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10749	Read from / Write to	0=Read, 1=Write
10750	Local IO / reg. no	
10751	Slave IO / reg. no	
3.1.83.77 Comli master message 77		
10753	Master channel	0-7
10754	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10755	Read from / Write to	0=Read, 1=Write
10756	Local IO / reg. no	
10757	Slave IO / reg. no	
3.1.83.78 Comli master message 78		
10759	Master channel	0-7
10760	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10761	Read from / Write to	0=Read, 1=Write
10762	Local IO / reg. no	
10763	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.79 Comli master message 79		
10765	Master channel	0-7
10766	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10767	Read from / Write to	0=Read, 1=Write
10768	Local IO / reg. no	
10769	Slave IO / reg. no	
3.1.83.80 Comli master message 80		
10771	Master channel	0-7
10772	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10773	Read from / Write to	0=Read, 1=Write
10774	Local IO / reg. no	
10775	Slave IO / reg. no	
3.1.83.81 Comli master message 81		
10777	Master channel	0-7
10778	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10779	Read from / Write to	0=Read, 1=Write
10780	Local IO / reg. no	
10781	Slave IO / reg. no	
3.1.83.82 Comli master message 82		
10783	Master channel	0-7
10784	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10785	Read from / Write to	0=Read, 1=Write
10786	Local IO / reg. no	
10787	Slave IO / reg. no	
3.1.83.83 Comli master message 83		
10789	Master channel	0-7
10790	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10791	Read from / Write to	0=Read, 1=Write
10792	Local IO / reg. no	
10793	Slave IO / reg. no	
3.1.83.84 Comli master message 84		
10795	Master channel	0-7
10796	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10797	Read from / Write to	0=Read, 1=Write
10798	Local IO / reg. no	
10799	Slave IO / reg. no	
3.1.83.85 Comli master message 85		
10801	Master channel	0-7
10802	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10803	Read from / Write to	0=Read, 1=Write
10804	Local IO / reg. no	
10805	Slave IO / reg. no	
3.1.83.86 Comli master message 86		
10807	Master channel	0-7

Register no	Description	Scale factor / unit / note
10808	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10809	Read from / Write to	0=Read, 1=Write
10810	Local IO / reg. no	
10811	Slave IO / reg. no	

3.1.83.87 Comli master message 87

10813	Master channel	0-7
10814	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10815	Read from / Write to	0=Read, 1=Write
10816	Local IO / reg. no	
10817	Slave IO / reg. no	

3.1.83.88 Comli master message 88

10819	Master channel	0-7
10820	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10821	Read from / Write to	0=Read, 1=Write
10822	Local IO / reg. no	
10823	Slave IO / reg. no	

3.1.83.89 Comli master message 89

10825	Master channel	0-7
10826	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10827	Read from / Write to	0=Read, 1=Write
10828	Local IO / reg. no	
10829	Slave IO / reg. no	

3.1.83.90 Comli master message 90

10831	Master channel	0-7
10832	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10833	Read from / Write to	0=Read, 1=Write
10834	Local IO / reg. no	
10835	Slave IO / reg. no	

3.1.83.91 Comli master message 91

10837	Master channel	0-7
10838	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10839	Read from / Write to	0=Read, 1=Write
10840	Local IO / reg. no	
10841	Slave IO / reg. no	

3.1.83.92 Comli master message 92

10843	Master channel	0-7
10844	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10845	Read from / Write to	0=Read, 1=Write
10846	Local IO / reg. no	
10847	Slave IO / reg. no	

3.1.83.93 Comli master message 93

10849	Master channel	0-7
10850	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10851	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
10852	Local IO / reg. no	
10853	Slave IO / reg. no	
3.1.83.94 Comli master message 94		
10855	Master channel	0-7
10856	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10857	Read from / Write to	0=Read, 1=Write
10858	Local IO / reg. no	
10859	Slave IO / reg. no	
3.1.83.95 Comli master message 95		
10861	Master channel	0-7
10862	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10863	Read from / Write to	0=Read, 1=Write
10864	Local IO / reg. no	
10865	Slave IO / reg. no	
3.1.83.96 Comli master message 96		
10867	Master channel	0-7
10868	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10869	Read from / Write to	0=Read, 1=Write
10870	Local IO / reg. no	
10871	Slave IO / reg. no	
3.1.83.97 Comli master message 97		
10873	Master channel	0-7
10874	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10875	Read from / Write to	0=Read, 1=Write
10876	Local IO / reg. no	
10877	Slave IO / reg. no	
3.1.83.98 Comli master message 98		
10879	Master channel	0-7
10880	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10881	Read from / Write to	0=Read, 1=Write
10882	Local IO / reg. no	
10883	Slave IO / reg. no	
3.1.83.99 Comli master message 99		
10885	Master channel	0-7
10886	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10887	Read from / Write to	0=Read, 1=Write
10888	Local IO / reg. no	
10889	Slave IO / reg. no	
3.1.83.100 Comli master message 100		
10891	Master channel	0-7
10892	Message type	0=Off, 1=IO-bit, 2=Reg, 3=Cross ref.reg, 4=Ext.reg.
10893	Read from / Write to	0=Read, 1=Write
10894	Local IO / reg. no	
10895	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.101	Comli master message 101	
10897	Master channel	0-7
10898	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10899	Read from / Write to	0=Read, 1=Write
10900	Local IO / reg. no	
10901	Slave IO / reg. no	
3.1.83.102	Comli master message 102	
10903	Master channel	0-7
10904	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10905	Read from / Write to	0=Read, 1=Write
10906	Local IO / reg. no	
10907	Slave IO / reg. no	
3.1.83.103	Comli master message 103	
10909	Master channel	0-7
10910	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10911	Read from / Write to	0=Read, 1=Write
10912	Local IO / reg. no	
10913	Slave IO / reg. no	
3.1.83.104	Comli master message 104	
10915	Master channel	0-7
10916	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10917	Read from / Write to	0=Read, 1=Write
10918	Local IO / reg. no	
10919	Slave IO / reg. no	
3.1.83.105	Comli master message 105	
10921	Master channel	0-7
10922	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10923	Read from / Write to	0=Read, 1=Write
10924	Local IO / reg. no	
10925	Slave IO / reg. no	
3.1.83.106	Comli master message 106	
10927	Master channel	0-7
10928	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10929	Read from / Write to	0=Read, 1=Write
10930	Local IO / reg. no	
10931	Slave IO / reg. no	
3.1.83.107	Comli master message 107	
10933	Master channel	0-7
10934	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10935	Read from / Write to	0=Read, 1=Write
10936	Local IO / reg. no	
10937	Slave IO / reg. no	

Register no	Description	Scale factor / unit / note
3.1.83.108	Comli master message 108	
10939	Master channel	0-7
10940	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10941	Read from / Write to	0=Read, 1=Write
10942	Local IO / reg. no	
10943	Slave IO / reg. no	
3.1.83.109	Comli master message 109	
10945	Master channel	0-7
10946	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10947	Read from / Write to	0=Read, 1=Write
10948	Local IO / reg. no	
10949	Slave IO / reg. no	
3.1.83.110	Comli master message 110	
10951	Master channel	0-7
10952	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10953	Read from / Write to	0=Read, 1=Write
10954	Local IO / reg. no	
10955	Slave IO / reg. no	
3.1.83.111	Comli master message 111	
10957	Master channel	0-7
10958	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10959	Read from / Write to	0=Read, 1=Write
10960	Local IO / reg. no	
10961	Slave IO / reg. no	
3.1.83.112	Comli master message 112	
10963	Master channel	0-7
10964	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10965	Read from / Write to	0=Read, 1=Write
10966	Local IO / reg. no	
10967	Slave IO / reg. no	
3.1.83.113	Comli master message 113	
10969	Master channel	0-7
10970	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10971	Read from / Write to	0=Read, 1=Write
10972	Local IO / reg. no	
10973	Slave IO / reg. no	
3.1.83.114	Comli master message 114	
10975	Master channel	0-7
10976	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10977	Read from / Write to	0=Read, 1=Write
10978	Local IO / reg. no	
10979	Slave IO / reg. no	
3.1.83.115	Comli master message 115	
10981	Master channel	0-7

Register no	Description	Scale factor / unit / note
10982	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10983	Read from / Write to	0=Read, 1=Write
10984	Local IO / reg. no	
10985	Slave IO / reg. no	
3.1.83.116	Comli master message 116	
10987	Master channel	0-7
10988	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10989	Read from / Write to	0=Read, 1=Write
10990	Local IO / reg. no	
10991	Slave IO / reg. no	
3.1.83.117	Comli master message 117	
10993	Master channel	0-7
10994	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
10995	Read from / Write to	0=Read, 1=Write
10996	Local IO / reg. no	
10997	Slave IO / reg. no	
3.1.83.118	Comli master message 118	
10999	Master channel	0-7
11000	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11001	Read from / Write to	0=Read, 1=Write
11002	Local IO / reg. no	
11003	Slave IO / reg. no	
3.1.83.119	Comli master message 119	
11005	Master channel	0-7
11006	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11007	Read from / Write to	0=Read, 1=Write
11008	Local IO / reg. no	
11009	Slave IO / reg. no	
3.1.83.120	Comli master message 120	
11011	Master channel	0-7
11012	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11013	Read from / Write to	0=Read, 1=Write
11014	Local IO / reg. no	
11015	Slave IO / reg. no	
3.1.83.121	Comli master message 121	
11017	Master channel	0-7
11018	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11019	Read from / Write to	0=Read, 1=Write
11020	Local IO / reg. no	
11021	Slave IO / reg. no	
3.1.83.122	Comli master message 122	
11023	Master channel	0-7
11024	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11025	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
11026	Local IO / reg. no	
11027	Slave IO / reg. no	
3.1.83.123	Comli master message 123	
11029	Master channel	0-7
11030	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11031	Read from / Write to	0=Read, 1=Write
11032	Local IO / reg. no	
11033	Slave IO / reg. no	
3.1.83.124	Comli master message 124	
11035	Master channel	0-7
11036	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11037	Read from / Write to	0=Read, 1=Write
11038	Local IO / reg. no	
11039	Slave IO / reg. no	
3.1.83.125	Comli master message 125	
11041	Master channel	0-7
11042	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11043	Read from / Write to	0=Read, 1=Write
11044	Local IO / reg. no	
11045	Slave IO / reg. no	
3.1.83.126	Comli master message 126	
11047	Master channel	0-7
11048	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11049	Read from / Write to	0=Read, 1=Write
11050	Local IO / reg. no	
11051	Slave IO / reg. no	
3.1.83.127	Comli master message 127	
11053	Master channel	0-7
11054	Message type	0=Off,1=IO-bit,2=Reg,3=Cross ref.reg,4=Ext.reg.
11055	Read from / Write to	0=Read, 1=Write
11056	Local IO / reg. no	
11057	Slave IO / reg. no	
3.1.84	IO-trig of Com. master	
11059	Bit mask IO 0 - 15 trig active	
11060	Bit mask IO 16 - 31 trig active	
11061	Bit mask IO 32 - 47 trig active	
11062	Bit mask IO 48 - 63 trig active	
11063	Bit mask IO 64 - 79 trig active	
11064	Bit mask IO 80 - 95 trig active	
11065	Bit mask IO 96 - 111 trig active	
11066	Bit mask IO 112 - 127 trig active	
11067	Bit mask IO 128 - 143 trig active	
11068	Bit mask IO 144 - 159 trig active	
11069	Bit mask IO 160 - 175 trig active	
11070	Bit mask IO 176 - 191 trig active	
11071	Bit mask IO 192 - 207 trig active	
11072	Bit mask IO 208 - 223 trig active	

Register no	Description	Scale factor / unit / note
11073	Bit mask IO 224 - 239 trig active	
11074	Bit mask IO 240 - 255 trig active	
11075	Bit mask IO 256 - 271 trig active	
11076	Bit mask IO 272 - 287 trig active	
11077	Bit mask IO 288 - 303 trig active	
11078	Bit mask IO 304 - 319 trig active	
11079	Bit mask IO 320 - 335 trig active	
11080	Bit mask IO 336 - 351 trig active	
11081	Bit mask IO 352 - 367 trig active	
11082	Bit mask IO 368 - 383 trig active	
11083	Bit mask IO 384 - 399 trig active	
11084	Bit mask IO 400 - 415 trig active	
11085	Bit mask IO 416 - 431 trig active	
11086	Bit mask IO 432 - 447 trig active	
11087	Bit mask IO 448 - 463 trig active	
11088	Bit mask IO 464 - 479 trig active	
11089	Bit mask IO 480 - 495 trig active	
11090	Bit mask IO 496 - 511 trig active	
11091	Bit mask IO 512 - 527 trig active	
11092	Bit mask IO 528 - 543 trig active	
11093	Bit mask IO 544 - 559 trig active	
11094	Bit mask IO 560 - 575 trig active	
11095	Bit mask IO 576 - 591 trig active	
11096	Bit mask IO 592 - 607 trig active	
11097	Bit mask IO 608 - 623 trig active	
11098	Bit mask IO 624 - 639 trig active	
11099	Bit mask IO 640 - 655 trig active	
11100	Bit mask IO 656 - 671 trig active	
11101	Bit mask IO 672 - 687 trig active	
11102	Bit mask IO 688 - 703 trig active	
11103	Bit mask IO 704 - 719 trig active	
11104	Bit mask IO 720 - 735 trig active	
11105	Bit mask IO 736 - 751 trig active	
11106	Bit mask IO 752 - 767 trig active	
11107	Bit mask IO 768 - 783 trig active	
11108	Bit mask IO 784 - 799 trig active	
11109	Bit mask IO 800 - 815 trig active	
11110	Bit mask IO 816 - 831 trig active	
11111	Bit mask IO 832 - 847 trig active	
11112	Bit mask IO 848 - 863 trig active	
11113	Bit mask IO 864 - 879 trig active	
11114	Bit mask IO 880 - 895 trig active	
11115	Bit mask IO 896 - 911 trig active	
11116	Bit mask IO 912 - 927 trig active	
11117	Bit mask IO 928 - 943 trig active	
11118	Bit mask IO 944 - 959 trig active	
11119	Bit mask IO 960 - 975 trig active	
11120	Bit mask IO 976 - 991 trig active	
11121	Bit mask IO 992 - 1007 trig active	

3.1.85 Time stamp IO-signals

11123	Bit mask IO 0 - 15 Time stamp active
11124	Bit mask IO 16 - 31 Time stamp active
11125	Bit mask IO 32 - 47 Time stamp active
11126	Bit mask IO 48 - 63 Time stamp active
11127	Bit mask IO 64 - 79 Time stamp active
11128	Bit mask IO 80 - 95 Time stamp active
11129	Bit mask IO 96 - 111 Time stamp active
11130	Bit mask IO 112 - 127 Time stamp active
11131	Bit mask IO 128 - 143 Time stamp active

Register no	Description	Scale factor / unit / note
11132	Bit mask IO 144 - 159 Time stamp active	
11133	Bit mask IO 160 - 175 Time stamp active	
11134	Bit mask IO 176 - 191 Time stamp active	
11135	Bit mask IO 192 - 207 Time stamp active	
11136	Bit mask IO 208 - 223 Time stamp active	
11137	Bit mask IO 224 - 239 Time stamp active	
11138	Bit mask IO 240 - 255 Time stamp active	
11139	Bit mask IO 256 - 271 Time stamp active	
11140	Bit mask IO 272 - 287 Time stamp active	
11141	Bit mask IO 288 - 303 Time stamp active	
11142	Bit mask IO 304 - 319 Time stamp active	
11143	Bit mask IO 320 - 335 Time stamp active	
11144	Bit mask IO 336 - 351 Time stamp active	
11145	Bit mask IO 352 - 367 Time stamp active	
11146	Bit mask IO 368 - 383 Time stamp active	
11147	Bit mask IO 384 - 399 Time stamp active	
11148	Bit mask IO 400 - 415 Time stamp active	
11149	Bit mask IO 416 - 431 Time stamp active	
11150	Bit mask IO 432 - 447 Time stamp active	
11151	Bit mask IO 448 - 463 Time stamp active	
11152	Bit mask IO 464 - 479 Time stamp active	
11153	Bit mask IO 480 - 495 Time stamp active	
11154	Bit mask IO 496 - 511 Time stamp active	
11155	Bit mask IO 512 - 527 Time stamp active	
11156	Bit mask IO 528 - 543 Time stamp active	
11157	Bit mask IO 544 - 559 Time stamp active	
11158	Bit mask IO 560 - 575 Time stamp active	
11159	Bit mask IO 576 - 591 Time stamp active	
11160	Bit mask IO 592 - 607 Time stamp active	
11161	Bit mask IO 608 - 623 Time stamp active	
11162	Bit mask IO 624 - 639 Time stamp active	
11163	Bit mask IO 640 - 655 Time stamp active	
11164	Bit mask IO 656 - 671 Time stamp active	
11165	Bit mask IO 672 - 687 Time stamp active	
11166	Bit mask IO 688 - 703 Time stamp active	
11167	Bit mask IO 704 - 719 Time stamp active	
11168	Bit mask IO 720 - 735 Time stamp active	
11169	Bit mask IO 736 - 751 Time stamp active	
11170	Bit mask IO 752 - 767 Time stamp active	
11171	Bit mask IO 768 - 783 Time stamp active	
11172	Bit mask IO 784 - 799 Time stamp active	
11173	Bit mask IO 800 - 815 Time stamp active	
11174	Bit mask IO 816 - 831 Time stamp active	
11175	Bit mask IO 832 - 847 Time stamp active	
11176	Bit mask IO 848 - 863 Time stamp active	
11177	Bit mask IO 864 - 879 Time stamp active	
11178	Bit mask IO 880 - 895 Time stamp active	
11179	Bit mask IO 896 - 911 Time stamp active	
11180	Bit mask IO 912 - 927 Time stamp active	
11181	Bit mask IO 928 - 943 Time stamp active	
11182	Bit mask IO 944 - 959 Time stamp active	
11183	Bit mask IO 960 - 975 Time stamp active	
11184	Bit mask IO 976 - 991 Time stamp active	
11185	Bit mask IO 992 - 1007 Time stamp active	

3.1.86 Power Save modes

11187	LED indications turned off	1 = turn off LED, power save mode, 0 =LED active.
11191	CPU power save mode	1 = Turn on power save mode, 0 = No power save mode

Register no	Description	Scale factor / unit / note
3.1.87	Dial up Alarms, delay of ID transmission to LC-Translator system	
11192	Delay of ID transmission Tel nr 1	0-99 seconds
11193	Delay of ID transmission Tel nr 2	0-99 seconds
11194	Delay of ID transmission Tel nr 3	0-99 seconds
11195	Delay of ID transmission Tel nr 4	0-99 seconds
3.1.88	Alarm blocking in local mode	
11199	Alarm blocking in local mode	(personal alarms unblocked)
3.1.89	Pause time, Set points and motor current pump 1-16	
3.1.89.1	Set points and motor current pump 1	
11200 + 11201	Set point high alarm	0.01 A
11202	Hysteresis high alarm	0.01 A
11203 + 11204	Set point low alarm	0.01 A
11205	Hysteresis low alarm	0.01 A
3.1.89.2	Pause time pump 1	
11206 + 11207	Time since last pumprun	Seconds
3.1.89.3	Set points motor current pump 2	
11208 + 11209	Set point high alarm	0.01 A
11210	Hysteresis high alarm	0.01 A
11211 + 11212	Set point low alarm	0.01 A
11213	Hysteresis low alarm	0.01 A
3.1.89.4	Pause time pump 2	
11214 + 11215	Time since last pumprun	Seconds
3.1.89.5	Set points motor current pump 3	
11216 + 11217	Set point high alarm	0.01 A
11218	Hysteresis high alarm	0.01 A
11219 + 11220	Set point low alarm	0.01 A
11221	Hysteresis low alarm	0.01 A
3.1.89.6	Pause time pump 3	
11222 + 11223	Time since last pumprun	Seconds
3.1.89.7	Set points motor current pump 4	
11224 + 11225	Set point high alarm	0.01 A
11226	Hysteresis high alarm	0.01 A
11227 + 11228	Set point low alarm	0.01 A
11229	Hysteresis low alarm	0.01 A
3.1.89.8	Pause time pump 4	
11230 + 11231	Time since last pumprun	Seconds
3.1.89.9	Set points motor current pump 5	
11232 + 11233	Set point high alarm	0.01 A
11234	Hysteresis high alarm	0.01 A
11235 + 11236	Set point low alarm	0.01 A
11237	Hysteresis low alarm	0.01 A
3.1.89.10	Pause time pump 5	
11238 + 11239	Time since last pumprun	Seconds

Register no	Description	Scale factor / unit / note
3.1.89.11 Set points motor current pump 6		
11240 + 11241	Set point high alarm	0.01 A
11242	Hysteresis high alarm	0.01 A
11243 + 11244	Set point low alarm	0.01 A
11245	Hysteresis low alarm	0.01 A
3.1.89.12 Pause time pump 6		
11246 + 11247	Time since last pumprun	Seconds
3.1.89.13 Set points motor current pump 7		
11248 + 11249	Set point high alarm	0.01 A
11250	Hysteresis high alarm	0.01 A
11251 + 11252	Set point low alarm	0.01 A
11253	Hysteresis low alarm	0.01 A
3.1.89.14 Pause time pump 7		
11254 + 11255	Time since last pumprun	Seconds
3.1.89.15 Set points motor current pump 8		
11256 + 11257	Set point high alarm	0.01 A
11258	Hysteresis high alarm	0.01 A
11259 + 11260	Set point low alarm	0.01 A
11261	Hysteresis low alarm	0.01 A
3.1.89.16 Pause time pump 8		
11262 + 11263	Time since last pumprun	Seconds
3.1.89.17 Set points motor current pump 9		
11264 + 11265	Set point high alarm	0.01 A
11266	Hysteresis high alarm	0.01 A
11267 + 11268	Set point low alarm	0.01 A
11269	Hysteresis low alarm	0.01 A
3.1.89.18 Pause time pump 9		
11270 + 11271	Time since last pumprun	Seconds
3.1.89.19 Set points motor current pump 10		
11272 + 11273	Set point high alarm	0.01 A
11274	Hysteresis high alarm	0.01 A
11275 + 11276	Set point low alarm	0.01 A
11277	Hysteresis low alarm	0.01 A
3.1.89.20 Pause time pump 10		
11278 + 11279	Time since last pumprun	Seconds
3.1.89.21 Set points motor current pump 11		
11280 + 11281	Set point high alarm	0.01 A
11282	Hysteresis high alarm	0.01 A
11283 + 11284	Set point low alarm	0.01 A
11285	Hysteresis low alarm	0.01 A
3.1.89.22 Pause time pump 11		
11286 + 11287	Time since last pumprun	Seconds
3.1.89.23 Set points motor current pump 12		
11288 + 11289	Set point high alarm	0.01 A

Register no	Description	Scale factor / unit / note
11290	Hysteresis high alarm	0.01 A
11291 + 11292	Set point low alarm	0.01 A
11293	Hysteresis low alarm	0.01 A

3.1.89.24 Pause time pump 12

11294 + 11295	Time since last pumprun	Seconds
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3.1.89.25 Set points motor current pump 13

11296 + 11297	Set point high alarm	0.01 A
11298	Hysteresis high alarm	0.01 A
11299 + 11300	Set point low alarm	0.01 A
11301	Hysteresis low alarm	0.01 A

3.1.89.26 Pause time pump 13

11302 + 11303	Time since last pumprun	Seconds
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3.1.89.27 Set points motor current pump 14

11304 + 11305	Set point high alarm	0.01 A
11306	Hysteresis high alarm	0.01 A
11307 + 11308	Set point low alarm	0.01 A
11309	Hysteresis low alarm	0.01 A

3.1.89.28 Pause time pump 14

11310 + 11311	Time since last pumprun	Seconds
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3.1.89.29 Set points motor current pump 15

11312 + 11313	Set point high alarm	0.01 A
11314	Hysteresis high alarm	0.01 A
11315 + 11316	Set point low alarm	0.01 A
11317	Hysteresis low alarm	0.01 A

3.1.89.30 Pause time pump 15

11318 + 11319	Time since last pumprun	Seconds
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3.1.89.31 Set points motor current pump 16

11320 + 11321	Set point high alarm	0.01 A
11322	Hysteresis high alarm	0.01 A
11323 + 11324	Set point low alarm	0.01 A
11325	Hysteresis low alarm	0.01 A

3.1.89.32 Pause time pump 16

11326 + 11327	Time since last pumprun	Seconds
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3.1.90 Set points for analogue output signal IO module 1-8

3.1.90.1 Set points for analogue output signal IO module 1 A.OUT 1

11328 + 11329	Set point high alarm	0.001 mA
11330	Hysteresis high alarm	0.001 mA
11331 + 11332	Set point low alarm	0.001 mA
11333	Hysteresis low alarm	0.001 mA

3.1.90.2 Set points for analogue output signal IO module 1 A.OUT 2

11336 + 11337	Set point high alarm	0.001 mA
11338	Hysteresis high alarm	0.001 mA
11339 + 11340	Set point low alarm	0.001 mA

Register no	Description	Scale factor / unit / note
11341	Hysteresis low alarm	0.001 mA

3.1.90.3 Set points for analogue output signal IO module 2 A.OUT 1

11344 + 11345	Set point high alarm	0.001 mA
11346	Hysteresis high alarm	0.001 mA
11347 + 11348	Set point low alarm	0.001 mA
11349	Hysteresis low alarm	0.001 mA

3.1.90.4 Set points for analogue output signal IO module 2 A.OUT 2

11352 + 11353	Set point high alarm	0.001 mA
11354	Hysteresis high alarm	0.001 mA
11355 + 11356	Set point low alarm	0.001 mA
11357	Hysteresis low alarm	0.001 mA

3.1.90.5 Set points for analogue output signal IO module 3 A.OUT 1

11360 + 11361	Set point high alarm	0.001 mA
11362	Hysteresis high alarm	0.001 mA
11363 + 11364	Set point low alarm	0.001 mA
11365	Hysteresis low alarm	0.001 mA

3.1.90.6 Set points for analogue output signal IO module 3 A.OUT 2

11368 + 11369	Set point high alarm	0.001 mA
11370	Hysteresis high alarm	0.001 mA
11371 + 11372	Set point low alarm	0.001 mA
11373	Hysteresis low alarm	0.001 mA

3.1.90.7 Set points for analogue output signal IO module 4 A.OUT 1

11376 + 11377	Set point high alarm	0.001 mA
11378	Hysteresis high alarm	0.001 mA
11379 + 11380	Set point low alarm	0.001 mA
11381	Hysteresis low alarm	0.001 mA

3.1.90.8 Set points for analogue output signal IO module 4 A.OUT 2

11384 + 11385	Set point high alarm	0.001 mA
11386	Hysteresis high alarm	0.001 mA
11387 + 11388	Set point low alarm	0.001 mA
11389	Hysteresis low alarm	0.001 mA

3.1.90.9 Set points for analogue output signal IO module 5 A.OUT 1

11392 + 11393	Set point high alarm	0.001 mA
11394	Hysteresis high alarm	0.001 mA
11395 + 11396	Set point low alarm	0.001 mA
11397	Hysteresis low alarm	0.001 mA

3.1.90.10 Set points for analogue output signal IO module 5 A.OUT 2

11400 + 11401	Set point high alarm	0.001 mA
11402	Hysteresis high alarm	0.001 mA
11403 + 11404	Set point low alarm	0.001 mA
11405	Hysteresis low alarm	0.001 mA

Register no	Description	Scale factor / unit / note
3.1.90.11 Set points for analogue output signal IO module 6 A.OUT 1		
11408 + 11409	Set point high alarm	0.001 mA
11410	Hysteresis high alarm	0.001 mA
11411 + 11412	Set point low alarm	0.001 mA
11413	Hysteresis low alarm	0.001 mA
3.1.90.12 Set points for analogue output signal IO module 6 A.OUT 2		
11416 + 11417	Set point high alarm	0.001 mA
11418	Hysteresis high alarm	0.001 mA
11419 + 11420	Set point low alarm	0.001 mA
11421	Hysteresis low alarm	0.001 mA
3.1.90.13 Set points for analogue output signal IO module 7 A.OUT 1		
11424 + 11425	Set point high alarm	0.001 mA
11426	Hysteresis high alarm	0.001 mA
11427 + 11428	Set point low alarm	0.001 mA
11429	Hysteresis low alarm	0.001 mA
3.1.90.14 Set points for analogue output signal IO module 7 A.OUT 2		
11432 + 11433	Set point high alarm	0.001 mA
11434	Hysteresis high alarm	0.001 mA
11435 + 11436	Set point low alarm	0.001 mA
11437	Hysteresis low alarm	0.001 mA
3.1.90.15 Set points for analogue output signal IO module 8 A.OUT 1		
11440 + 11441	Set point high alarm	0.001 mA
11442	Hysteresis high alarm	0.001 mA
11443 + 11444	Set point low alarm	0.001 mA
11445	Hysteresis low alarm	0.001 mA
3.1.90.16 Set points for analogue output signal IO module 8 A.OUT 2		
11448 + 11449	Set point high alarm	0.001 mA
11450	Hysteresis high alarm	0.001 mA
11451 + 11452	Set point low alarm	0.001 mA
11453	Hysteresis low alarm	0.001 mA
3.1.91 Pump blocking in sedimentation pit		
11456	Pump pit to overrun	From V. 1.13 0=Off, 1-4
11457	Blocking time	min. 0-5999 (timer status on reg.12046)
3.1.92 Timer reset set points for level rise time when 0 Pumps running		
11458	Level change 1	cm 0-999
11459	/ time unit	min. 0-99
11460	Level change 2	cm 0-999
11461	/ time unit	min. 0-99
11462	Level change 3	cm 0-999
11463	/ time unit	min. 0-99
3.1.93 Timer reset set points for level rise time when 1 Pump running		
11464	Level change 1	cm 0-999

Register no	Description	Scale factor / unit / note	
11465	/ time unit	min. 0-99	
11466	Level change 2	cm 0-999	
11467	/ time unit	min. 0-99	
11468	Level change 3	cm 0-999	
11469	/ time unit	min. 0-99	
3.1.94 Timer reset set points for level rise time when 2 Pumps running			
11470	Level change 1	cm 0-999	
11471	/ time unit	min. 0-99	
11472	Level change 2	cm 0-999	
11473	/ time unit	min. 0-99	
11474	Level change 3	cm 0-999	
11475	/ time unit	min. 0-99	
3.1.95 Turn setpoint off for blocked pumps (F.706)			
11478	Flag blocked pump as handstoped	Bitmask P1-P16	
3.1.96 P-band for speed pumps pump group 1 (If F.610=ON P-BAND)			
11479 + 11480	Setpoint P-band min pump capacity	m / bar	(alla fix pumps off)
11481 + 11482	Setpoint P-band max pump capacity	m / bar	(alla pumps running)
3.1.97 P-band for speed pumps pump group 2			
11483 + 11484	Setpoint P-band min pump capacity	m / bar	(alla fix pumps off)
11485 + 11486	Setpoint P-band max pump capacity	m / bar	(alla pumps running)
3.1.98 Unconditional pump set-up			
11487	Time between every change on pumprelais	sec. 0-99	
3.1.99 Settings speed pump PID group 1 From V. 1.15			
11488	Min speed for pump run / lock	% 0-99	
11489	Ramp time for 0-100% increasing speed	sec 0-999	
11490	Ramp time for 0-100% decreasing speed	sec 0-999	
11491	Start-up ramp for 0-100% increasing speed	sec 0-999	
11492	Time for speed pump alternation Monday	min. from mid-night 1-1440	0=Disabled
11493	Time for speed pump alternation Tuesday	min. from mid-night 1-1440	0=Disabled
11494	Time for speed pump alternation Wednesday	min. from mid-night 1-1440	0=Disabled
11495	Time for speed pump alternation Thursday	min. from mid-night 1-1440	0=Disabled
11496	Time for speed pump alternation Friday	min. from mid-night 1-1440	0=Disabled
11497	Time for speed pump alternation Saturday	min. from mid-night 1-1440	0=Disabled
11498	Time for speed pump alternation Sunday	min. from mid-night 1-1440	0=Disabled
11499	Limit PID during alternation	0=No 1=Yes	
3.1.100 Settings speed pump PID group 2 From V. 1.15			
11500	Min speed for pump run / lock	% 0-99	
11501	Ramp time for 0-100% increasing speed	sec 0-999	
11502	Ramp time for 0-100% decreasing speed	sec 0-999	
11503	Start-up ramp for 0-100% increasing speed	sec 0-999	
11504	Time for speed pump alternation Monday	min. from mid-night 1-1440	0=Disabled
11505	Time for speed pump alternation Tuesday	min. from mid-night 1-1440	0=Disabled
11506	Time for speed pump alternation Wednesday	min. from mid-night 1-1440	0=Disabled
11507	Time for speed pump alternation Thursday	min. from mid-night 1-1440	0=Disabled
11508	Time for speed pump alternation Friday	min. from mid-night 1-1440	0=Disabled
11509	Time for speed pump alternation Saturday	min. from mid-night 1-1440	0=Disabled
11510	Time for speed pump alternation Sunday	min. from mid-night 1-1440	0=Disabled

Register no	Description	Scale factor / unit / note	
11511	Limit PID during alternation	0=No 1=Yes	
3.1.101 Settings pressure boost pump group 1			
11512 + 11513	Max input - output difference	0.01 bar	From V. 1.15
11514 + 11515	Min. input pressure for pump run	0.01 bar	
3.1.102 Settings pressure boost pump group 2			
11520 + 11521	Max input - output difference	0.01 bar	From V. 1.15
11522 + 11523	Min. input pressure for pump run	0.01 bar	
3.1.103 Additional configuration pump pit 1			
11516	Interval runtime alternator	minute	0=Disabled
11517	Max no of pumps running together	0-16	0=Disabled
11518	Pump alternernate option	0=Every stop, 1=all pumps off	
11519	Pumppit index for pump head level	0-3	Pumpcurve
3.1.104 Additional configuration pump pit 2			
11524	Interval runtime alternator	minute	0=Disabled
11525	Max no of pumps running together	0-16	0=Disabled
11526	Pump alternernate option	0=Every stop, 1=all pumps off	
11527	Pumppit index for pump head level	0-3	Pumpcurve
3.1.105 Additional configuration pump pit 3			
11532	Interval runtime alternator	minute	0=Disabled
11533	Max no of pumps running together	0-16	0=Disabled
11534	Pump alternernate option	0=Every stop, 1=all pumps off	
11535	Pumppit index for pump head level	0-3	Pumpcurve
3.1.106 Additional configuration pump pit 4			
11540	Interval runtime alternator	minute	0=Disabled
11541	Max no of pumps running together	0-16	0=Disabled
11542	Pump alternernate option	0=Every stop, 1=all pumps off	
11543	Pumppit index for pump head level	0-3	Pumpcurve
3.1.107 Set-up timer 9 (week timer)			
11544	On time Monday	min. from mid-night (0-1439)	
11545	Off time Monday	min. from mid-night (0-1439)	
11546	On time Tuesday	min. from mid-night (0-1439)	
11547	Off time Tuesday	min. from mid-night (0-1439)	
11548	On time Wednesday	min. from mid-night (0-1439)	
11549	Off time Wednesday	min. from mid-night (0-1439)	
11550	On time Thursday	min. from mid-night (0-1439)	
11551	Off time Thursday	min. from mid-night (0-1439)	
11552	On time Friday	min. from mid-night (0-1439)	
11553	Off time Friday	min. from mid-night (0-1439)	
11554	On time Saturday	min. from mid-night (0-1439)	
11555	Off time Saturday	min. from mid-night (0-1439)	
11556	On time Sunday	min. from mid-night (0-1439)	
11557	Off time Sunday	min. from mid-night (0-1439)	

Register no	Description	Scale factor / unit / note
3.1.108 Speed pump controlled pump pit 1 (PID reg.)		
11558	Enable set point control	0/1 0=Off (pressure boost), 1=On (pump pit)
11559	Locked speed to empty pit	% (0-99)
11560	Delay before speed lock	sec (0-599)
11561 + 11562	Set point on Start level)	0.01 m
11563 + 11564	Set point off (Stop level)	0.01 m
3.1.109 Speed pump controlled pump pit 2 (PID reg.)		
11566	Enable set point control	0/1 0=Off (pressure boost), 1=On (pump pit)
11567	Locked speed to empty pit	% (0-99)
11568	Delay before speed lock	sec (0-599)
11569 + 11570	Set point on Start level)	0.01 m
11571 + 11572	Set point off (Stop level)	0.01 m
3.1.110 Extended no of values in main menu (toggle)		
11574	Signal type value 5	
11575	Signal index value 5	
11576	Flow unit value 5	0=l/s, 1=m3/h
11577	Decimal count value 5	(For register data)
11578	Signal type value 6	
11579	Signal index value 6	
11580	Flow unit value 6	0=l/s, 1=m3/h
11581	Decimal count value 6	(For register data)
11582	Signal type value 7	
11583	Signal index value 7	
11584	Flow unit value 7	0=l/s, 1=m3/h
11585	Decimal count value 7	(For register data)
11586	Signal type value 8	
11587	Signal index value 8	
11588	Flow unit value 8	0=l/s, 1=m3/h
11589	Decimal count value 8	(For register data)
11590	Signal type value 9	
11591	Signal index value 9	
11592	Flow unit value 9	0=l/s, 1=m3/h
11593	Decimal count value 9	(For register data)
11594	Signal type value 10	
11595	Signal index value 10	
11596	Flow unit value 10	0=l/s, 1=m3/h
11597	Decimal count value 10	(For register data)
3.1.111 Limited total no of pumps in 2 pits		
11600	Max. no of pumps running together	0-16 0=Disabled
11601	Pump pit index 1	0-3 = Pump pit 1-4
11602	Pump pit index 2	0-3 = Pump pit 1-4
3.1.112 Shift motor 1		
Se also reg. 10146-10187 for shiftmotor 3-4		
11604	IO-Module index A.IN set point	0-4 (IO module 1-5)
11605	A.IN index for set point	0-3 (A.IN no 1-4)
11606	IO-Module index A.IN current value	0-4 (IO module 1-5)
11607	A.IN index for current value	0-3 (A.IN no 1-4)
11608	Type of set point	0=Off, 1=A.IN, 2=Manual, 3=Remote
11609 + 11610	Manual set point	0.001 units (from A.IN current value)
11611 + 11612	Remote set point	0.001 units (from A.IN current value)
11613 + 11614	Dead zone	0.001 units (from A.IN current value)
11615 + 11616	Current value at endpoint max	0.001 units (for position sensor alarm)
11617 + 11618	Current value at endpoint min	0.001 units (for position sensor alarm)

Register no	Description	Scale factor / unit / note
11619 + 11620	Max endpoint deviation	0.001 units
11621	Pause time between pulses	sec (0-9999)
11622	Max. Pulse time	sec (0-9999)
11623 + 11624	Setpoint for DI <i>FORCE SHIFT MOTOR</i>	0.001 units

3.1.113 Shift motor 2

11628	IO-Module index A.IN set point	0-4 (IO module 1-5)
11629	A.IN index for set point	0-3 (A.IN no 1-4)
11630	IO-Module index A.IN current value	0-4 (IO module 1-5)
11631	A.IN index for current value	0-3 (A.IN no 1-4)
11632	Type of set point	0=Off, 1=A.IN, 2=Manual, 3=Remote
11633 + 11634	Manual set point	0.001 units (from A.IN current value)
11635 + 11636	Remote set point	0.001 units (from A.IN current value)
11637 + 11638	Dead zone	0.001 units (from A.IN current value)
11639 + 11640	Current value at endpoint max	0.001 units (for position sensor alarm)
11641 + 11642	Current value at endpoint min	0.001 units (for position sensor alarm)
11643 + 11644	Max endpoint deviation	0.001 units
11645	Pause time between pulses	sec (0-9999)
11646	Max. Pulse time	sec (0-9999)
11647+11648	Setpoint for DI <i>FORCE SHIFT MOTOR</i>	0.001 units

3.1.114 IO controlled register data 1-16

3.1.114.1 IO controlled register data 1

11652	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11653	Register number to control	0-16383
11654	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11655	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)

3.1.114.2 IO controlled register data 2

11656	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11657	Register number to control	0-16383
11658	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11659	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)

3.1.114.3 IO controlled register data 3

11660	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11661	Register number to control	0-16383
11662	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11663	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)

3.1.114.4 IO controlled register data 4

11664	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11665	Register number to control	0-16383
11666	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11667	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)

3.1.114.5 IO controlled register data 5

11668	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11669	Register number to control	0-16383
11670	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11671	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)

Register no	Description	Scale factor / unit / note
3.1.114.6 IO controlled register data 6		
11672	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11673	Register number to control	0-16383
11674	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11675	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.7 IO controlled register data 7		
11676	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11677	Register number to control	0-16383
11678	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11679	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.8 IO controlled register data 8		
11680	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11681	Register number to control	0-16383
11682	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11683	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.9 IO controlled register data 9		
11684	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11685	Register number to control	0-16383
11686	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11687	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.10 IO controlled register data 10		
11688	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11689	Register number to control	0-16383
11690	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11691	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.11 IO controlled register data 11		
11692	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11693	Register number to control	0-16383
11694	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11695	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.12 IO controlled register data 12		
11696	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11697	Register number to control	0-16383
11698	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11699	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.13 IO controlled register data 13		
11700	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11701	Register number to control	0-16383
11702	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11703	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)

Register no	Description	Scale factor / unit / note
3.1.114.14	IO controlled register data 14	
11704	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11705	Register number to control	0-16383
11706	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11707	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.15	IO controlled register data 15	
11708	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11709	Register number to control	0-16383
11710	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11711	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.114.16	IO controlled register data 16	
11712	IO-number and config. bits	bit 0-12=IO no, 13=Enabled, 14=reg.flag 0,15=reg.flag 1
11713	Register number to control	0-16383
11714	Value/Source register if IO=0	0-65535 (if reg.fl.=1, this is the source register)
11715	Value/Source register if IO=1	0-65535 (if reg.fl.=1, this is the source register)
3.1.115	Set-up of week times timer 1 (Pump pit)	
11728	Select day or week timer	0=day timer, 1=week timer (day timer set-up on reg. 6124-6125)
11729	Normal time Monday	min. from mid-night (0-1439)
11730	Night time Monday	min. from mid-night (0-1439)
11731	Normal time Tuesday	min. from mid-night (0-1439)
11732	Night time Tuesday	min. from mid-night (0-1439)
11733	Normal time Wednesday	min. from mid-night (0-1439)
11734	Night time Wednesday	min. from mid-night (0-1439)
11735	Normal time Thursday	min. from mid-night (0-1439)
11736	Night time Thursday	min. from mid-night (0-1439)
11737	Normal time Friday	min. from mid-night (0-1439)
11738	Night time Friday	min. from mid-night (0-1439)
11739	Normal time Saturday	min. from mid-night (0-1439)
11740	Night time Saturday	min. from mid-night (0-1439)
11741	Normal time Sunday	min. from mid-night (0-1439)
11742	Night time Sunday	min. from mid-night (0-1439)
3.1.116	Set-up of week times timer 2 (Pump pit)	
11744	Select day or week timer	0=day timer, 1=week timer (day timer set-up on reg. 6126-6127)
11745	Normal time Monday	min. from mid-night (0-1439)
11746	Night time Monday	min. from mid-night (0-1439)
11747	Normal time Tuesday	min. from mid-night (0-1439)
11748	Night time Tuesday	min. from mid-night (0-1439)
11749	Normal time Wednesday	min. from mid-night (0-1439)
11750	Night time Wednesday	min. from mid-night (0-1439)
11751	Normal time Thursday	min. from mid-night (0-1439)
11752	Night time Thursday	min. from mid-night (0-1439)
11753	Normal time Friday	min. from mid-night (0-1439)
11754	Night time Friday	min. from mid-night (0-1439)
11755	Normal time Saturday	min. from mid-night (0-1439)
11756	Night time Saturday	min. from mid-night (0-1439)
11757	Normal time Sunday	min. from mid-night (0-1439)
11758	Night time Sunday	min. from mid-night (0-1439)

Register no	Description	Scale factor / unit / note
3.1.117 Set-up of week times timer 3 (Pump pit)		
11760	Select day or week timer	0=day timer, 1=week timer (day timer set-up on reg. 6128-6129)
11761	Normal time Monday	min. from mid-night (0-1439)
11762	Night time Monday	min. from mid-night (0-1439)
11763	Normal time Tuesday	min. from mid-night (0-1439)
11764	Night time Tuesday	min. from mid-night (0-1439)
11765	Normal time Wednesday	min. from mid-night (0-1439)
11766	Night time Wednesday	min. from mid-night (0-1439)
11767	Normal time Thursday	min. from mid-night (0-1439)
11768	Night time Thursday	min. from mid-night (0-1439)
11769	Normal time Friday	min. from mid-night (0-1439)
11770	Night time Friday	min. from mid-night (0-1439)
11771	Normal time Saturday	min. from mid-night (0-1439)
11772	Night time Saturday	min. from mid-night (0-1439)
11773	Normal time Sunday	min. from mid-night (0-1439)
11774	Night time Sunday	min. from mid-night (0-1439)
3.1.118 Set-up of week times timer 4 (Pump pit)		
11776	Select day or week timer	0=day timer, 1=week timer (day timer set-up on reg. 6130-6131)
11777	Normal time Monday	min. from mid-night (0-1439)
11778	Night time Monday	min. from mid-night (0-1439)
11779	Normal time Tuesday	min. from mid-night (0-1439)
11780	Night time Tuesday	min. from mid-night (0-1439)
11781	Normal time Wednesday	min. from mid-night (0-1439)
11782	Night time Wednesday	min. from mid-night (0-1439)
11783	Normal time Thursday	min. from mid-night (0-1439)
11784	Night time Thursday	min. from mid-night (0-1439)
11785	Normal time Friday	min. from mid-night (0-1439)
11786	Night time Friday	min. from mid-night (0-1439)
11787	Normal time Saturday	min. from mid-night (0-1439)
11788	Night time Saturday	min. from mid-night (0-1439)
11789	Normal time Sunday	min. from mid-night (0-1439)
11790	Night time Sunday	min. from mid-night (0-1439)
3.1.119 Sequence event timer, new IO-status for event 1-64 (Duplicated on IO 6272-6335)		
11792	New status (0,1) for event 1-16	Bit mask
11793	New status (0,1) for event 17-32	Bit mask
11794	New status (0,1) for event 33-48	Bit mask
11795	New status (0,1) for event 49-64	Bit mask
3.1.120 Sequence timer event 1-64		
3.1.120.1 Sequence timer event 1		
11796	Sequence channel	1-8, 0=Disabled
11797	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12152
11798	New data value for the channel	0-65535
3.1.120.2 Sequence timer event 2		
11799	Sequence channel	1-8, 0=Disabled
11800	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12154
11801	New data value for the channel	0-65535

Register no	Description	Scale factor / unit / note
3.1.120.3 Sequence timer event 3		
11802	Sequence channel	1-8, 0=Disabled
11803	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12156
11804	New data value for the channel	0-65535
3.1.120.4 Sequence timer event 4		
11805	Sequence channel	1-8, 0=Disabled
11806	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12158
11807	New data value for the channel	0-65535
3.1.120.5 Sequence timer event 5		
11808	Sequence channel	1-8, 0=Disabled
11809	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12160
11810	New data value for the channel	0-65535
3.1.120.6 Sequence timer event 6		
11811	Sequence channel	1-8, 0=Disabled
11812	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12162
11813	New data value for the channel	0-65535
3.1.120.7 Sequence timer event 7		
11814	Sequence channel	1-8, 0=Disabled
11815	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12164
11816	New data value for the channel	0-65535
3.1.120.8 Sequence timer event 8		
11817	Sequence channel	1-8, 0=Disabled
11818	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12166
11819	New data value for the channel	0-65535
3.1.120.9 Sequence timer event 9		
11820	Sequence channel	1-8, 0=Disabled
11821	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12168
11822	New data value for the channel	0-65535
3.1.120.10 Sequence timer event 10		
11823	Sequence channel	1-8, 0=Disabled
11824	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12170
11825	New data value for the channel	0-65535
3.1.120.11 Sequence timer event 11		
11826	Sequence channel	1-8, 0=Disabled
11827	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12172
11828	New data value for the channel	0-65535
3.1.120.12 Sequence timer event 12		
11829	Sequence channel	1-8, 0=Disabled
11830	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12174

Register no	Description	Scale factor / unit / note
11831	New data value for the channel	0-65535
3.1.120.13	Sequence timer event 13	
11832	Sequence channel	1-8, 0=Disabled
11833	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12176
11834	New data value for the channel	0-65535
3.1.120.14	Sequence timer event 14	
11835	Sequence channel	1-8, 0=Disabled
11836	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12178
11837	New data value for the channel	0-65535
3.1.120.15	Sequence timer event 15	
11838	Sequence channel	1-8, 0=Disabled
11839	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12180
11840	New data value for the channel	0-65535
3.1.120.16	Sequence timer event 16	
11841	Sequence channel	1-8, 0=Disabled
11842	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12182
11843	New data value for the channel	0-65535
3.1.120.17	Sequence timer event 17	
11844	Sequence channel	1-8, 0=Disabled
11845	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12184
11846	New data value for the channel	0-65535
3.1.120.18	Sequence timer event 18	
11847	Sequence channel	1-8, 0=Disabled
11848	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12186
11849	New data value for the channel	0-65535
3.1.120.19	Sequence timer event 19	
11850	Sequence channel	1-8, 0=Disabled
11851	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12188
11852	New data value for the channel	0-65535
3.1.120.20	Sequence timer event 20	
11853	Sequence channel	1-8, 0=Disabled
11854	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12190
11855	New data value for the channel	0-65535
3.1.120.21	Sequence timer event 21	
11856	Sequence channel	1-8, 0=Disabled
11857	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12192
11858	New data value for the channel	0-65535

Register no	Description	Scale factor / unit / note
3.1.120.22	Sequence timer event 22	
11859	Sequence channel	1-8, 0=Disabled
11860	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12194
11861	New data value for the channel	0-65535
3.1.120.23	Sequence timer event 23	
11862	Sequence channel	1-8, 0=Disabled
11863	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12196
11864	New data value for the channel	0-65535
3.1.120.24	Sequence timer event 24	
11865	Sequence channel	1-8, 0=Disabled
11866	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12198
11867	New data value for the channel	0-65535
3.1.120.25	Sequence timer event 25	
11868	Sequence channel	1-8, 0=Disabled
11869	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12200
11870	New data value for the channel	0-65535
3.1.120.26	Sequence timer event 26	
11871	Sequence channel	1-8, 0=Disabled
11872	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12202
11873	New data value for the channel	0-65535
3.1.120.27	Sequence timer event 27	
11874	Sequence channel	1-8, 0=Disabled
11875	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12204
11876	New data value for the channel	0-65535
3.1.120.28	Sequence timer event 28	
11877	Sequence channel	1-8, 0=Disabled
11878	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12206
11879	New data value for the channel	0-65535
3.1.120.29	Sequence timer event 29	
11880	Sequence channel	1-8, 0=Disabled
11881	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12208
11882	New data value for the channel	0-65535
3.1.120.30	Sequence timer event 30	
11883	Sequence channel	1-8, 0=Disabled
11884	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12210
11885	New data value for the channel	0-65535
3.1.120.31	Sequence timer event 31	
11886	Sequence channel	1-8, 0=Disabled
11887	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12212

Register no	Description	Scale factor / unit / note
11888	New data value for the channel	0-65535
3.1.120.32	Sequence timer event 32	
11889	Sequence channel	1-8, 0=Disabled
11890	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12214
11891	New data value for the channel	0-65535
3.1.120.33	Sequence timer event 33	
11892	Sequence channel	1-8, 0=Disabled
11893	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12216
11894	New data value for the channel	0-65535
3.1.120.34	Sequence timer event 34	
11895	Sequence channel	1-8, 0=Disabled
11896	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12218
11897	New data value for the channel	0-65535
3.1.120.35	Sequence timer event 35	
11898	Sequence channel	1-8, 0=Disabled
11899	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12220
11900	New data value for the channel	0-65535
3.1.120.36	Sequence timer event 36	
11901	Sequence channel	1-8, 0=Disabled
11902	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12222
11903	New data value for the channel	0-65535
3.1.120.37	Sequence timer event 37	
11904	Sequence channel	1-8, 0=Disabled
11905	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12224
11906	New data value for the channel	0-65535
3.1.120.38	Sequence timer event 38	
11907	Sequence channel	1-8, 0=Disabled
11908	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12226
11909	New data value for the channel	0-65535
3.1.120.39	Sequence timer event 39	
11910	Sequence channel	1-8, 0=Disabled
11911	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12228
11912	New data value for the channel	0-65535
3.1.120.40	Sequence timer event 40	
11913	Sequence channel	1-8, 0=Disabled
11914	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12230
11915	New data value for the channel	0-65535

Register no	Description	Scale factor / unit / note
3.1.120.41	Sequence timer event 41	
11916	Sequence channel	1-8, 0=Disabled
11917	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12232
11918	New data value for the channel	0-65535
3.1.120.42	Sequence timer event 42	
11919	Sequence channel	1-8, 0=Disabled
11920	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12234
11921	New data value for the channel	0-65535
3.1.120.43	Sequence timer event 43	
11922	Sequence channel	1-8, 0=Disabled
11923	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12236
11924	New data value for the channel	0-65535
3.1.120.44	Sequence timer event 44	
11925	Sequence channel	1-8, 0=Disabled
11926	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12238
11927	New data value for the channel	0-65535
3.1.120.45	Sequence timer event 45	
11928	Sequence channel	1-8, 0=Disabled
11929	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12240
11930	New data value for the channel	0-65535
3.1.120.46	Sequence timer event 46	
11931	Sequence channel	1-8, 0=Disabled
11932	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12242
11933	New data value for the channel	0-65535
3.1.120.47	Sequence timer event 47	
11934	Sequence channel	1-8, 0=Disabled
11935	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12244
11936	New data value for the channel	0-65535
3.1.120.48	Sequence timer event 48	
11937	Sequence channel	1-8, 0=Disabled
11938	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12246
11939	New data value for the channel	0-65535
3.1.120.49	Sequence timer event 49	
11940	Sequence channel	1-8, 0=Disabled
11941	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12248
11942	New data value for the channel	0-65535
3.1.120.50	Sequence timer event 50	
11943	Sequence channel	1-8, 0=Disabled
11944	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12250

Register no	Description	Scale factor / unit / note
11945	New data value for the channel	0-65535
3.1.120.51	Sequence timer event 51	
11946	Sequence channel	1-8, 0=Disabled
11947	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12252
11948	New data value for the channel	0-65535
3.1.120.52	Sequence timer event 52	
11949	Sequence channel	1-8, 0=Disabled
11950	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12254
11951	New data value for the channel	0-65535
3.1.120.53	Sequence timer event 53	
11952	Sequence channel	1-8, 0=Disabled
11953	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12256
11954	New data value for the channel	0-65535
3.1.120.54	Sequence timer event 54	
11955	Sequence channel	1-8, 0=Disabled
11956	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12258
11957	New data value for the channel	0-65535
3.1.120.55	Sequence timer event 55	
11958	Sequence channel	1-8, 0=Disabled
11959	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12260
11960	New data value for the channel	0-65535
3.1.120.56	Sequence timer event 56	
11961	Sequence channel	1-8, 0=Disabled
11962	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12262
11963	New data value for the channel	0-65535
3.1.120.57	Sequence timer event 57	
11964	Sequence channel	1-8, 0=Disabled
11965	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12264
11966	New data value for the channel	0-65535
3.1.120.58	Sequence timer event 58	
11967	Sequence channel	1-8, 0=Disabled
11968	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12266
11969	New data value for the channel	0-65535
3.1.120.59	Sequence timer event 59	
11970	Sequence channel	1-8, 0=Disabled
11971	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12268
11972	New data value for the channel	0-65535

Register no	Description	Scale factor / unit / note
3.1.120.60	Sequence timer event 60	
11973	Sequence channel	1-8, 0=Disabled
11974	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12270
11975	New data value for the channel	0-65535
3.1.120.61	Sequence timer event 61	
11976	Sequence channel	1-8, 0=Disabled
11977	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12272
11978	New data value for the channel	0-65535
3.1.120.62	Sequence timer event 62	
11979	Sequence channel	1-8, 0=Disabled
11980	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12274
11981	New data value for the channel	0-65535
3.1.120.63	Sequence timer event 63	
11982	Sequence channel	1-8, 0=Disabled
11983	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12276
11984	New data value for the channel	0-65535
3.1.120.64	Sequence timer event 64	
11985	Sequence channel	1-8, 0=Disabled
11986	Event time, Day and minute	(Bit register) Day and minute separated on reg. 12278
11987	New data value for the channel	0-65535
3.1.121	GPRS Options	
11994	Logg GPRS events	0=Off, 1=On
11995	GPRS SMS fallback	0=Off, 1=On
11996	Heartbeat operator scan	0=Off, 1=On (only for troubleshooting)
11997	GPRS modem type	0=Off, 1=CA521
11998	GPRS TCP/IP port	
11999	GPRS Heart Beat	min
3.1.122	Com port configuration Com 1	
12000	Com echo	0=Off, 1=On, 2=Comli
12001	Cross reference enable	0=Off, 1=On (also on reg. 441)
12002	Ring count before modem answer	0=Avstängt
3.1.123	Com port configuration Com 2	
12004	Com echo	0=Off, 1=On, 2=Comli
12005	Cross reference enable	0=Off, 1=On (also on reg. 442)
12006	Ring count before modem answer	0=Avstängt
3.1.124	Set-up to handle with care on Com 1 (Communication might drop)	
12008	Baud rate	0=Av, 1=300, 2=600, 3=1200, 4=2400, 5=4800, 6=9200, 7=19200, 8=38400, 9=57600, 10=115200
12009	Parity, handshake	Bit mask
12010	Protocol	0=Comli, 1=Modbus
12011	Perform above com. set-up	
12012	Protocol slave id	1-255
12013	Timeout	sec

Register no	Description	Scale factor / unit / note
3.1.125 Set-up to handle with care on Com 2 (Communication might drop)		
12014	Baud rate 0=Av,1=300,2=600,3=1200,4=2400,5=4800,6=9200,7=19200,8=38400,9=57600,10=115200	
12015	Parity, handshake	Bit mask
12016	Protocol	0=Comli, 1=Modbus
12017	Perform above com. set-up	
12018	Protocol slave id	1-255
12019	Timeout	sec
3.1.126 Port status Com 1 (for Swedmeter)		
12020	Current task	
12021	Counter no of Rings	
12022	Modem status	
12023	Line status	
3.1.127 Port status Com 2 (for Swedmeter)		
12024	Current task	
12025	Counter no of Rings	
12026	Modem status	
12027	Line status	
3.1.128 Alarm dialling status		
12028	Alarm trig new alarms	Bit mask
12029	Alarm trig alarms off	Bit mask
12030	Current sequence (dial status)	
12031	Current alarm number (F815)	0-3
12032	Redial counter	
12033	Acknowledge status	
3.1.129 Database status time stamped events		
12034	Next event position	0-511
12035	No of recorded events	0-512
12036 + 12037	Total no of events	
3.1.130 Com status time stamped events Com 1		
12038	Number of evenst since last read out	
12039 + 12040	Total no of read events	
3.1.131 Com status time stamped events Com 2		
12041	Number of evenst since last read out	
12042 + 12043	Total no of read events	
3.1.132 Ram bank status (For Swedmeter)		
12044	Used bank numbers	
12045	Bank offset	

Register no	Description	Scale factor / unit / note
3.1.133 Status sedimentation pit		
12046	Current block time	min. See timer set point on reg. 11457.
12047	Block status	0-3. 0=blocked, 1=timer done, 2=pumps running
3.1.134 No of values in logfiles from midnight		
12050	Logchannel 0, no of values	
12051	Logchannel 1, no of values	
12052	Logchannel 2, no of values	
12053	Logchannel 3, no of values	
12054	Logchannel 4, no of values	
12055	Logchannel 5, no of values	
12056	Logchannel 6, no of values	
12057	Logchannel 7, no of values	
12058	Logchannel 8, no of values	
12059	Logchannel 9, no of values	
12060	Logchannel 10, no of values	
12061	Logchannel 11, no of values	
12062	Logchannel 12, no of values	
12063	Logchannel 13, no of values	
12064	Logchannel 14, no of values	
12065	Logchannel 15, no of values	
12066	Logchannel 16, no of values	
12067	Logchannel 17, no of values	
12068	Logchannel 18, no of values	
12069	Logchannel 19, no of values	
3.1.135 Ackumulated runningtime in minutes, modulo 10000 (Uni view)		
12070	Pump 1 ackumulated running time	0-9999 minutes
12071	Pump 2 ackumulated running time	0-9999 minutes
12072	Pump 3 ackumulated running time	0-9999 minutes
12073	Pump 4 ackumulated running time	0-9999 minutes
12074	Pump 5 ackumulated running time	0-9999 minutes
12075	Pump 6 ackumulated running time	0-9999 minutes
12076	Pump 7 ackumulated running time	0-9999 minutes
12077	Pump 8 ackumulated running time	0-9999 minutes
12078	Pump 9 ackumulated running time	0-9999 minutes
12079	Pump 10 ackumulated running time	0-9999 minutes
12080	Pump 11 ackumulated running time	0-9999 minutes
12081	Pump 12 ackumulated running time	0-9999 minutes
12082	Pump 13 ackumulated running time	0-9999 minutes
12083	Pump 14 ackumulated running time	0-9999 minutes
12084	Pump 15 ackumulated running time	0-9999 minutes
12085	Pump 16 ackumulated running time	0-9999 minutes
3.1.136 Ackumulated overflow time in minutes, modulo 10000 (Uni view)		
12086	Pumppit 1 ackumulated overflow time	0-9999 minutes
12087	Pumppit 2 ackumulated overflow time	0-9999 minutes
12088	Pumppit 3 ackumulated overflow time	0-9999 minutes
12089	Pumppit 4 ackumulated overflow time	0-9999 minutes
3.1.137 Alternator position		
12090	Pumppit 1 alternator pos.	0-15
12091	Pumppit 2 alternator pos.	0-15
12092	Pumppit 3 alternator pos.	0-15
12093	Pumppit 4 alternator pos.	0-15

Register no **Description** **Scale factor / unit / note**

3.1.138 Duplicate of IO numbers for LED config. of digital signals

12100	Module index LED 1	0 - 7
12101	D.OUT / D.IN index LED 1	0 - 7/15
12102	Module index LED 2	0 - 7
12103	D.OUT / D.IN index LED 2	0 - 7/15
12104	Module index LED 3	0 - 7
12105	D.OUT / D.IN index LED 3	0 - 7/15
12106	Module index LED 4	0 - 7
12107	D.OUT / D.IN index LED 4	0 - 7/15
12108	Module index LED 5	0 - 7
12109	D.OUT / D.IN index LED 5	0 - 7/15
12110	Module index LED 6	0 - 7
12111	D.OUT / D.IN index LED 6	0 - 7/15
12112	Module index LED 7	0 - 7
12113	D.OUT / D.IN index LED 7	0 - 7/15
12114	Module index LED 8	0 - 7
12115	D.OUT / D.IN index LED 8	0 - 7/15
12116	Module index LED 9	0 - 7
12117	D.OUT / D.IN index LED 9	0 - 7/15
12118	Module index LED 10	0 - 7
12119	D.OUT / D.IN index LED 10	0 - 7/15
12120	Module index LED 11	0 - 7
12121	D.OUT / D.IN index LED 11	0 - 7/15
12122	Module index LED 12	0 - 7
12123	D.OUT / D.IN index LED 12	0 - 7/15
12124	Module index LED 13	0 - 7
12125	D.OUT / D.IN index LED 13	0 - 7/15
12126	Module index LED 14	0 - 7
12127	D.OUT / D.IN index LED 14	0 - 7/15
12128	Module index LED 15	0 - 7
12129	D.OUT / D.IN index LED 15	0 - 7/15
12130	Module index LED 16	0 - 7
12131	D.OUT / D.IN index LED 16	0 - 7/15

3.1.139 Help for AquaProg to select pump control source

12132	Signal source pump 1	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12133	Signal source pump 2	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12134	Signal source pump 3	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12135	Signal source pump 4	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12136	Signal source pump 5	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12137	Signal source pump 6	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12138	Signal source pump 7	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12139	Signal source pump 8	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12140	Signal source pump 9	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12141	Signal source pump 10	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12142	Signal source pump 11	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12143	Signal source pump 12	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12144	Signal source pump 13	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12145	Signal source pump 14	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12146	Signal source pump 15	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.
12147	Signal source pump 16	0=Off, 1=PP, 2-9=IO-mod. 1-8,10=PID contr.

3.1.140 Sequence timer set-up

12152	Weekday for event 1	0-6 = Monday - Sunday
12153	Time for event 1	0-1440 = minutes from mid-night (0:00 - 24:00)
12154	Weekday for event 2	0-6 = Monday - Sunday
12155	Time for event 2	0-1440 = minutes from mid-night (0:00 - 24:00)
12156	Weekday for event 3	0-6 = Monday - Sunday
12157	Time for event 3	0-1440 = minutes from mid-night (0:00 - 24:00)

Register no	Description	Scale factor / unit / note
12158	Weekday for event 4	0-6 = Monday - Sunday
12159	Time for event 4	0-1440 = minutes from mid-night (0:00 - 24:00)
12160	Weekday for event 5	0-6 = Monday - Sunday
12161	Time for event 5	0-1440 = minutes from mid-night (0:00 - 24:00)
12162	Weekday for event 6	0-6 = Monday - Sunday
12163	Time for event 6	0-1440 = minutes from mid-night (0:00 - 24:00)
12164	Weekday for event 7	0-6 = Monday - Sunday
12165	Time for event 7	0-1440 = minutes from mid-night (0:00 - 24:00)
12166	Weekday for event 8	0-6 = Monday - Sunday
12167	Time for event 8	0-1440 = minutes from mid-night (0:00 - 24:00)
12168	Weekday for event 9	0-6 = Monday - Sunday
12169	Time for event 9	0-1440 = minutes from mid-night (0:00 - 24:00)
12170	Weekday for event 10	0-6 = Monday - Sunday
12171	Time for event 10	0-1440 = minutes from mid-night (0:00 - 24:00)
12172	Weekday for event 11	0-6 = Monday - Sunday
12173	Time for event 11	0-1440 = minutes from mid-night (0:00 - 24:00)
12174	Weekday for event 12	0-6 = Monday - Sunday
12175	Time for event 12	0-1440 = minutes from mid-night (0:00 - 24:00)
12176	Weekday for event 13	0-6 = Monday - Sunday
12177	Time for event 13	0-1440 = minutes from mid-night (0:00 - 24:00)
12178	Weekday for event 14	0-6 = Monday - Sunday
12179	Time for event 14	0-1440 = minutes from mid-night (0:00 - 24:00)
12180	Weekday for event 15	0-6 = Monday - Sunday
12181	Time for event 15	0-1440 = minutes from mid-night (0:00 - 24:00)
12182	Weekday for event 16	0-6 = Monday - Sunday
12183	Time for event 16	0-1440 = minutes from mid-night (0:00 - 24:00)
12184	Weekday for event 17	0-6 = Monday - Sunday
12185	Time for event 17	0-1440 = minutes from mid-night (0:00 - 24:00)
12186	Weekday for event 18	0-6 = Monday - Sunday
12187	Time for event 18	0-1440 = minutes from mid-night (0:00 - 24:00)
12188	Weekday for event 19	0-6 = Monday - Sunday
12189	Time for event 19	0-1440 = minutes from mid-night (0:00 - 24:00)
12190	Weekday for event 20	0-6 = Monday - Sunday
12191	Time for event 20	0-1440 = minutes from mid-night (0:00 - 24:00)
12192	Weekday for event 21	0-6 = Monday - Sunday
12193	Time for event 21	0-1440 = minutes from mid-night (0:00 - 24:00)
12194	Weekday for event 22	0-6 = Monday - Sunday
12195	Time for event 22	0-1440 = minutes from mid-night (0:00 - 24:00)
12196	Weekday for event 23	0-6 = Monday - Sunday
12197	Time for event 23	0-1440 = minutes from mid-night (0:00 - 24:00)
12198	Weekday for event 24	0-6 = Monday - Sunday
12199	Time for event 24	0-1440 = minutes from mid-night (0:00 - 24:00)
12200	Weekday for event 25	0-6 = Monday - Sunday
12201	Time for event 25	0-1440 = minutes from mid-night (0:00 - 24:00)
12202	Weekday for event 26	0-6 = Monday - Sunday
12203	Time for event 26	0-1440 = minutes from mid-night (0:00 - 24:00)
12204	Weekday for event 27	0-6 = Monday - Sunday
12205	Time for event 27	0-1440 = minutes from mid-night (0:00 - 24:00)
12206	Weekday for event 28	0-6 = Monday - Sunday
12207	Time for event 28	0-1440 = minutes from mid-night (0:00 - 24:00)
12208	Weekday for event 29	0-6 = Monday - Sunday
12209	Time for event 29	0-1440 = minutes from mid-night (0:00 - 24:00)
12210	Weekday for event 30	0-6 = Monday - Sunday
12211	Time for event 30	0-1440 = minutes from mid-night (0:00 - 24:00)
12212	Weekday for event 31	0-6 = Monday - Sunday
12213	Time for event 31	0-1440 = minutes from mid-night (0:00 - 24:00)
12214	Weekday for event 32	0-6 = Monday - Sunday
12215	Time for event 32	0-1440 = minutes from mid-night (0:00 - 24:00)
12216	Weekday for event 33	0-6 = Monday - Sunday
12217	Time for event 33	0-1440 = minutes from mid-night (0:00 - 24:00)
12218	Weekday for event 34	0-6 = Monday - Sunday
12219	Time for event 34	0-1440 = minutes from mid-night (0:00 - 24:00)

Register no	Description	Scale factor / unit / note
12220	Weekday for event 35	0-6 = Monday - Sunday
12221	Time for event 35	0-1440 = minutes from mid-night (0:00 - 24:00)
12222	Weekday for event 36	0-6 = Monday - Sunday
12223	Time for event 36	0-1440 = minutes from mid-night (0:00 - 24:00)
12224	Weekday for event 37	0-6 = Monday - Sunday
12225	Time for event 37	0-1440 = minutes from mid-night (0:00 - 24:00)
12226	Weekday for event 38	0-6 = Monday - Sunday
12227	Time for event 38	0-1440 = minutes from mid-night (0:00 - 24:00)
12228	Weekday for event 39	0-6 = Monday - Sunday
12229	Time for event 39	0-1440 = minutes from mid-night (0:00 - 24:00)
12230	Weekday for event 40	0-6 = Monday - Sunday
12231	Time for event 40	0-1440 = minutes from mid-night (0:00 - 24:00)
12232	Weekday for event 41	0-6 = Monday - Sunday
12233	Time for event 41	0-1440 = minutes from mid-night (0:00 - 24:00)
12234	Weekday for event 42	0-6 = Monday - Sunday
12235	Time for event 42	0-1440 = minutes from mid-night (0:00 - 24:00)
12236	Weekday for event 43	0-6 = Monday - Sunday
12237	Time for event 43	0-1440 = minutes from mid-night (0:00 - 24:00)
12238	Weekday for event 44	0-6 = Monday - Sunday
12239	Time for event 44	0-1440 = minutes from mid-night (0:00 - 24:00)
12240	Weekday for event 45	0-6 = Monday - Sunday
12241	Time for event 45	0-1440 = minutes from mid-night (0:00 - 24:00)
12242	Weekday for event 46	0-6 = Monday - Sunday
12243	Time for event 46	0-1440 = minutes from mid-night (0:00 - 24:00)
12244	Weekday for event 47	0-6 = Monday - Sunday
12245	Time for event 47	0-1440 = minutes from mid-night (0:00 - 24:00)
12246	Weekday for event 48	0-6 = Monday - Sunday
12247	Time for event 48	0-1440 = minutes from mid-night (0:00 - 24:00)
12248	Weekday for event 49	0-6 = Monday - Sunday
12249	Time for event 49	0-1440 = minutes from mid-night (0:00 - 24:00)
12250	Weekday for event 50	0-6 = Monday - Sunday
12251	Time for event 50	0-1440 = minutes from mid-night (0:00 - 24:00)
12252	Weekday for event 51	0-6 = Monday - Sunday
12253	Time for event 51	0-1440 = minutes from mid-night (0:00 - 24:00)
12254	Weekday for event 52	0-6 = Monday - Sunday
12255	Time for event 52	0-1440 = minutes from mid-night (0:00 - 24:00)
12256	Weekday for event 53	0-6 = Monday - Sunday
12257	Time for event 53	0-1440 = minutes from mid-night (0:00 - 24:00)
12258	Weekday for event 54	0-6 = Monday - Sunday
12259	Time for event 54	0-1440 = minutes from mid-night (0:00 - 24:00)
12260	Weekday for event 55	0-6 = Monday - Sunday
12261	Time for event 55	0-1440 = minutes from mid-night (0:00 - 24:00)
12262	Weekday for event 56	0-6 = Monday - Sunday
12263	Time for event 56	0-1440 = minutes from mid-night (0:00 - 24:00)
12264	Weekday for event 57	0-6 = Monday - Sunday
12265	Time for event 57	0-1440 = minutes from mid-night (0:00 - 24:00)
12266	Weekday for event 58	0-6 = Monday - Sunday
12267	Time for event 58	0-1440 = minutes from mid-night (0:00 - 24:00)
12268	Weekday for event 59	0-6 = Monday - Sunday
12269	Time for event 59	0-1440 = minutes from mid-night (0:00 - 24:00)
12270	Weekday for event 60	0-6 = Monday - Sunday
12271	Time for event 60	0-1440 = minutes from mid-night (0:00 - 24:00)
12272	Weekday for event 61	0-6 = Monday - Sunday
12273	Time for event 61	0-1440 = minutes from mid-night (0:00 - 24:00)
12274	Weekday for event 62	0-6 = Monday - Sunday
12275	Time for event 62	0-1440 = minutes from mid-night (0:00 - 24:00)
12276	Weekday for event 63	0-6 = Monday - Sunday
12277	Time for event 63	0-1440 = minutes from mid-night (0:00 - 24:00)
12278	Weekday for event 64	0-6 = Monday - Sunday
12279	Time for event 64	0-1440 = minutes from mid-night (0:00 - 24:00)

Register no	Description	Scale factor / unit / note
3.1.141	Key 6 user parameter 1-24	
3.1.141.1 Key 6 user parameter 1		
12288	Register number	Data register to display / set
12289	Scalefactor	0-65535
12290	Decimal count in datafield	0-4
12291	Access	0=OFF, 1=Read, 2=Set
12292 + 12293	Maxvalue	
12294 + 12295	Minvalue	
3.1.141.2 Key 6 user parameter 2		
12296	Register number	Data register to display / set
12297	Scalefactor	0-65535
12298	Decimal count in datafield	0-4
12299	Access	0=OFF, 1=Read, 2=Set
12300 + 12301	Maxvalue	
12302 + 12303	Minvalue	
3.1.141.3 Key 6 user parameter 3		
12304	Register number	Data register to display / set
12305	Scalefactor	0-65535
12306	Decimal count in datafield	0-4
12307	Access	0=OFF, 1=Read, 2=Set
12308 + 12309	Maxvalue	
12310 + 12311	Minvalue	
3.1.141.4 Key 6 user parameter 4		
12312	Register number	Data register to display / set
12313	Scalefactor	0-65535
12314	Decimal count in datafield	0-4
12315	Access	0=OFF, 1=Read, 2=Set
12316 + 12317	Maxvalue	
12318 + 12319	Minvalue	
3.1.141.5 Key 6 user parameter 5		
12320	Register number	Data register to display / set
12321	Scalefactor	0-65535
12322	Decimal count in datafield	0-4
12323	Access	0=OFF, 1=Read, 2=Set
12324 + 12325	Maxvalue	
12326 + 12327	Minvalue	
3.1.141.6 Key 6 user parameter 6		
12328	Register number	Data register to display / set
12329	Scalefactor	0-65535
12330	Decimal count in datafield	0-4
12331	Access	0=OFF, 1=Read, 2=Set
12332 + 12333	Maxvalue	
12334 + 12335	Minvalue	
3.1.141.7 Key 6 user parameter 7		
12336	Register number	Data register to display / set
12337	Scalefactor	0-65535
12338	Decimal count in datafield	0-4
12339	Access	0=OFF, 1=Read, 2=Set
12340 + 12341	Maxvalue	
12342 + 12343	Minvalue	

Register no	Description	Scale factor / unit / note
3.1.141.8 Key 6 user parameter 8		
12344	Register number	Data register to display / set
12345	Scalefactor	0-65535
12346	Decimal count in datafield	0-4
12347	Access	0=OFF, 1=Read, 2=Set
12348 + 12349	Maxvalue	
12350 + 12351	Minvalue	
3.1.141.9 Key 6 user parameter 9		
12352	Register number	Data register to display / set
12353	Scalefactor	0-65535
12354	Decimal count in datafield	0-4
12355	Access	0=OFF, 1=Read, 2=Set
12356 + 12357	Maxvalue	
12358 + 12359	Minvalue	
3.1.141.10 Key 6 user parameter 10		
12360	Register number	Data register to display / set
12361	Scalefactor	0-65535
12362	Decimal count in datafield	0-4
12363	Access	0=OFF, 1=Read, 2=Set
12364 + 12365	Maxvalue	
12366 + 12367	Minvalue	
3.1.141.11 Key 6 user parameter 11		
12368	Register number	Data register to display / set
12369	Scalefactor	0-65535
12370	Decimal count in datafield	0-4
12371	Access	0=OFF, 1=Read, 2=Set
12372 + 12373	Maxvalue	
12374 + 12375	Minvalue	
3.1.141.12 Key 6 user parameter 12		
12376	Register number	Data register to display / set
12377	Scalefactor	0-65535
12378	Decimal count in datafield	0-4
12379	Access	0=OFF, 1=Read, 2=Set
12380 + 12381	Maxvalue	
12382 + 12383	Minvalue	
3.1.141.13 Key 6 user parameter 13		
12384	Register number	Data register to display / set
12385	Scalefactor	0-65535
12386	Decimal count in datafield	0-4
12387	Access	0=OFF, 1=Read, 2=Set
12388 + 12389	Maxvalue	
12390 + 12391	Minvalue	
3.1.141.14 Key 6 user parameter 14		
12392	Register number	Data register to display / set
12393	Scalefactor	0-65535
12394	Decimal count in datafield	0-4
12395	Access	0=OFF, 1=Read, 2=Set
12396 + 12397	Maxvalue	
12398 + 12399	Minvalue	
3.1.141.15 Key 6 user parameter 15		
12400	Register number	Data register to display / set

Register no	Description	Scale factor / unit / note
12401	Scalefactor	0-65535
12402	Decimal count in datafield	0-4
12403	Access	0=OFF, 1=Read, 2=Set
12404 + 12405	Maxvalue	
12406 + 12407	Minvalue	
3.1.141.16	Key 6 user parameter 16	
12408	Register number	Data register to display / set
12409	Scalefactor	0-65535
12410	Decimal count in datafield	0-4
12411	Access	0=OFF, 1=Read, 2=Set
12412 + 12413	Maxvalue	
12414 + 12415	Minvalue	
3.1.141.17	Key 6 user parameter 17	
12416	Register number	Data register to display / set
12417	Scalefactor	0-65535
12418	Decimal count in datafield	0-4
12419	Access	0=OFF, 1=Read, 2=Set
12420 + 12421	Maxvalue	
12422 + 12423	Minvalue	
3.1.141.18	Key 6 user parameter 18	
12424	Register number	Data register to display / set
12425	Scalefactor	0-65535
12426	Decimal count in datafield	0-4
12427	Access	0=OFF, 1=Read, 2=Set
12428 + 12429	Maxvalue	
12430 + 12431	Minvalue	
3.1.141.19	Key 6 user parameter 19	
12432	Register number	Data register to display / set
12433	Scalefactor	0-65535
12434	Decimal count in datafield	0-4
12435	Access	0=OFF, 1=Read, 2=Set
12436 + 12437	Maxvalue	
12438 + 12439	Minvalue	
3.1.141.20	Key 6 user parameter 20	
12440	Register number	Data register to display / set
12441	Scalefactor	0-65535
12442	Decimal count in datafield	0-4
12443	Access	0=OFF, 1=Read, 2=Set
12444 + 12445	Maxvalue	
12446 + 12447	Minvalue	
3.1.141.21	Key 6 user parameter 21	
12408	Register number	Data register to display / set
12409	Scalefactor	0-65535
12450	Decimal count in datafield	0-4
12451	Access	0=OFF, 1=Read, 2=Set
12452 + 12453	Maxvalue	
12454 + 12455	Minvalue	
3.1.141.22	Key 6 user parameter 22	
12456	Register number	Data register to display / set
12457	Scalefactor	0-65535
12458	Decimal count in datafield	0-4

Register no	Description	Scale factor / unit / note
12459	Access	0=OFF, 1=Read, 2=Set
12460 + 12461	Maxvalue	
12462 + 12463	Minvalue	
3.1.141.23 Key 6 user parameter 23		
12464	Register number	Data register to display / set
12465	Scalefactor	0-65535
12466	Decimal count in datafield	0-4
12467	Access	0=OFF, 1=Read, 2=Set
12468 + 12469	Maxvalue	
12470 + 12471	Minvalue	
3.1.141.24 Key 6 user parameter 24		
12472	Register number	Data register to display / set
12473	Scalefactor	0-65535
12474	Decimal count in datafield	0-4
12475	Access	0=OFF, 1=Read, 2=Set
12476 + 12477	Maxvalue	
12478 + 12479	Minvalue	
3.1.142 Check run of pump 1-16		
3.1.142.1 Check run of pump 1		
12480	Pause time before check run	0-999 hours (0=inactive)
12481	Run time	0-5999 seconds
12482 + 12483	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12484 + 12485	or level greater than (>)	cm
3.1.142.2 Check run of pump 2		
12486	Pause time before check run	0-999 hours (0=inactive)
12487	Run time	0-5999 seconds
12488 + 12489	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12490 + 12491	or level greater than (>)	cm
3.1.142.3 Check run of pump 3		
12492	Pause time before check run	0-999 hours (0=inactive)
12493	Run time	0-5999 seconds
12494 + 12495	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12496 + 12497	or level greater than (>)	cm
3.1.142.4 Check run of pump 4		
12498	Pause time before check run	0-999 hours (0=inactive)
12499	Run time	0-5999 seconds
12500 + 12501	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12502 + 12503	or level greater than (>)	cm
3.1.142.5 Check run of pump 5		
12504	Pause time before check run	0-999 hours (0=inactive)
12505	Run time	0-5999 seconds
12506 + 12507	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12508 + 12509	or level greater than (>)	cm
3.1.142.6 Check run of pump 6		
12510	Pause time before check run	0-999 hours (0=inactive)
12511	Run time	0-5999 seconds
12512 + 12513	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12514 + 12515	or level greater than (>)	cm

Register no	Description	Scale factor / unit / note
3.1.142.7 Check run of pump 7		
12516	Pause time before check run	0-999 hours (0=inactive)
12517	Run time	0-5999 seconds
12518 + 12519	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12520 + 12521	or level greater than (>)	cm
3.1.142.8 Check run of pump 8		
12522	Pause time before check run	0-999 hours (0=inactive)
12523	Run time	0-5999 seconds
12524 + 12525	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12526 + 12527	or level greater than (>)	cm
3.1.142.9 Check run of pump 9		
12528	Pause time before check run	0-999 hours (0=inactive)
12529	Run time	0-5999 seconds
12530 + 12531	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12532 + 12533	or level greater than (>)	cm
3.1.142.10 Check run of pump 10		
12534	Pause time before check run	0-999 hours (0=inactive)
12535	Run time	0-5999 seconds
12536 + 12537	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12538 + 12539	or level greater than (>)	cm
3.1.142.11 Check run of pump 11		
12540	Pause time before check run	0-999 hours (0=inactive)
12541	Run time	0-5999 seconds
12542 + 12543	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12544 + 12545	or level greater than (>)	cm
3.1.142.12 Check run of pump 12		
12546	Pause time before check run	0-999 hours (0=inactive)
12547	Run time	0-5999 seconds
12548 + 12549	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12550 + 12551	or level greater than (>)	cm
3.1.142.13 Check run of pump 13		
12552	Pause time before check run	0-999 hours (0=inactive)
12553	Run time	0-5999 seconds
12554 + 12555	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12556 + 12557	or level greater than (>)	cm
3.1.142.14 Check run of pump 14		
12558	Pause time before check run	0-999 hours (0=inactive)
12559	Run time	0-5999 seconds
12560 + 12561	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12562 + 12563	or level greater than (>)	cm
3.1.142.15 Check run of pump 15		
12564	Pause time before check run	0-999 hours (0=inactive)
12565	Run time	0-5999 seconds
12566 + 12567	Pumprun allowed if level less than (<)	cm (separate levels independent of normal control)
12568 + 12569	or level greater than (>)	cm
3.1.142.16 Check run of pump 16		
12570	Pause time before check run	0-999 hours (0=inactive)
12571	Run time	0-5999 seconds

Register no	Description	Scale factor / unit / note
12572 + 12573	Pump run allowed if level less than (<)	cm (separate levels independent of normal control)
12574 + 12575	or level greater than (>)	cm
12576	Separate valve check P.1	0-5999 seconds 0=standard (follow pump manouver)
12577	Separate valve check P.2	0-5999 seconds 0=standard (follow pump manouver)
12578	Separate valve check P.3	0-5999 seconds 0=standard (follow pump manouver)
12579	Separate valve check P.4	0-5999 seconds 0=standard (follow pump manouver)
12580	Separate valve check P.5	0-5999 seconds 0=standard (follow pump manouver)
12581	Separate valve check P.6	0-5999 seconds 0=standard (follow pump manouver)
12582	Separate valve check P.7	0-5999 seconds 0=standard (follow pump manouver)
12583	Separate valve check P.8	0-5999 seconds 0=standard (follow pump manouver)
12584	Separate valve check P.9	0-5999 seconds 0=standard (follow pump manouver)
12585	Separate valve check P.10	0-5999 seconds 0=standard (follow pump manouver)
12586	Separate valve check P.11	0-5999 seconds 0=standard (follow pump manouver)
12587	Separate valve check P.12	0-5999 seconds 0=standard (follow pump manouver)
12588	Separate valve check P.13	0-5999 seconds 0=standard (follow pump manouver)
12589	Separate valve check P.14	0-5999 seconds 0=standard (follow pump manouver)
12590	Separate valve check P.15	0-5999 seconds 0=standard (follow pump manouver)
12591	Separate valve check P.16	0-5999 seconds 0=standard (follow pump manouver)

3.1.143 Allowed pumpinterval for manouver on level derivata PP 1 (see also reg. 9200)

12592	Min no of pumps running to allow pumpstart	0-16
12593	Max no of pumps running to allow pumpstart	0-16
12594	Min no of pumps running to allow pumpstop	0-16
12595	Max no of pumps running to allow pumpstop	0-16

3.1.144 Allowed pumpinterval for manouver on level derivata PP 2 (see also reg. 9204)

12596	Min no of pumps running to allow pumpstart	0-16
12597	Max no of pumps running to allow pumpstart	0-16
12598	Min no of pumps running to allow pumpstop	0-16
12599	Max no of pumps running to allow pumpstop	0-16

3.1.145 Allowed pumpinterval for manouver on level derivata PP 3 (see also reg. 9208)

12600	Min no of pumps running to allow pumpstart	0-16
12601	Max no of pumps running to allow pumpstart	0-16
12602	Min no of pumps running to allow pumpstop	0-16
12603	Max no of pumps running to allow pumpstop	0-16

3.1.146 Allowed pumpinterval for manouver on level derivata PP 4 (see also reg. 9212)

12604	Min no of pumps running to allow pumpstart	0-16
12605	Max no of pumps running to allow pumpstart	0-16
12606	Min no of pumps running to allow pumpstop	0-16
12607	Max no of pumps running to allow pumpstop	0-16

3.1.147 Analogue log set-up log channels 20-31

3.1.147.1 Analogue log set-up log channel 20

12610	Open for configuration	Write 1
12611	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12612	Log interval	sec (2 - 21600)
12613	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12614	Signal type	See appendices about signal types
12615	Signal index	0 - Max signal index
12616	Unit option (for flow)	0=l/s, 1=m3/h
12617	Start register for expanded data	
12618	Decimal count	(For register data)
12619	Complete new config.	Write 2

Register no	Description	Scale factor / unit / note
3.1.147.2 Analogue log set-up log channel 21		
12620	Open for configuration	Write 1
12621	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12622	Log interval	sec (2 - 21600)
12623	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12624	Signal type	See appendices about signal types
12625	Signal index	0 - Max signal index
12626	Unit option (for flow)	0=l/s, 1=m ³ /h
12627	Start register for expanded data	
12628	Decimal count	(For register data)
12629	Complete new config.	Write 2
3.1.147.3 Analogue log set-up log channel 22		
12630	Open for configuration	Write 1
12631	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12632	Log interval	sec (2 - 21600)
12633	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12634	Signal type	See appendices about signal types
12635	Signal index	0 - Max signal index
12636	Unit option (for flow)	0=l/s, 1=m ³ /h
12637	Start register for expanded data	
12638	Decimal count	(For register data)
12639	Complete new config.	Write 2
3.1.147.4 Analogue log set-up log channel 23		
12640	Open for configuration	Write 1
12641	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12642	Log interval	sec (2 - 21600)
12643	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12644	Signal type	See appendices about signal types
12645	Signal index	0 - Max signal index
12646	Unit option (for flow)	0=l/s, 1=m ³ /h
12647	Start register for expanded data	
12648	Decimal count	(For register data)
12649	Complete new config.	Write 2
3.1.147.5 Analogue log set-up log channel 24		
12650	Open for configuration	Write 1
12651	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12652	Log interval	sec (2 - 21600)
12653	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12654	Signal type	See appendices about signal types
12655	Signal index	0 - Max signal index
12656	Unit option (for flow)	0=l/s, 1=m ³ /h
12657	Start register for expanded data	
12658	Decimal count	(For register data)
12659	Complete new config.	Write 2
3.1.147.6 Analogue log set-up log channel 25		
12660	Open for configuration	Write 1
12661	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12662	Log interval	sec (2 - 21600)
12663	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12664	Signal type	See appendices about signal types
12665	Signal index	0 - Max signal index
12666	Unit option (for flow)	0=l/s, 1=m ³ /h
12667	Start register for expanded data	
12668	Decimal count	(For register data)
12669	Complete new config.	Write 2

Register no	Description	Scale factor / unit / note
3.1.147.7 Analogue log set-up log channel 26		
12670	Open for configuration	Write 1
12671	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12672	Log interval	sec (2 - 21600)
12673	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12674	Signal type	See appendices about signal types
12675	Signal index	0 - Max signal index
12676	Unit option (for flow)	0=l/s, 1=m ³ /h
12677	Start register for expanded data	
12678	Decimal count	(For register data)
12679	Complete new config.	Write 2
3.1.147.8 Analogue log set-up log channel 27		
12680	Open for configuration	Write 1
12681	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12682	Log interval	sec (2 - 21600)
12683	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12684	Signal type	See appendices about signal types
12685	Signal index	0 - Max signal index
12686	Unit option (for flow)	0=l/s, 1=m ³ /h
12687	Start register for expanded data	
12688	Decimal count	(For register data)
12689	Complete new config.	Write 2
3.1.147.9 Analogue log set-up log channel 28		
12690	Open for configuration	Write 1
12691	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12692	Log interval	sec (2 - 21600)
12693	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12694	Signal type	See appendices about signal types
12695	Signal index	0 - Max signal index
12696	Unit option (for flow)	0=l/s, 1=m ³ /h
12697	Start register for expanded data	
12698	Decimal count	(For register data)
12699	Complete new config.	Write 2
3.1.147.10 Analogue log set-up log channel 29		
12700	Open for configuration	Write 1
12701	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12702	Log interval	sec (2 - 21600)
12703	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12704	Signal type	See appendices about signal types
12705	Signal index	0 - Max signal index
12706	Unit option (for flow)	0=l/s, 1=m ³ /h
12707	Start register for expanded data	
12708	Decimal count	(For register data)
12709	Complete new config.	Write 2
3.1.147.11 Analogue log set-up log channel 30		
12710	Open for configuration	Write 1
12711	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12712	Log interval	sec (2 - 21600)
12713	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12714	Signal type	See appendices about signal types
12715	Signal index	0 - Max signal index
12716	Unit option (for flow)	0=l/s, 1=m ³ /h
12717	Start register for expanded data	
12718	Decimal count	(For register data)
12719	Complete new config.	Write 2

Register no	Description	Scale factor / unit / note
3.1.147.12	Analogue log set-up log channel 31	
12720	Open for configuration	Write 1
12721	Log mode	0=Off, 1=Current, 2=Average, 3=Min, 4=Max
12722	Log interval	sec (2 - 21600)
12723	Resolution 16 / 32 data bits	0=32 bits, 1=16 bits
12724	Signal type	See appendices about signal types
12725	Signal index	0 - Max signal index
12726	Unit option (for flow)	0=l/s, 1=m ³ /h
12727	Start register for expanded data	
12728	Decimal count	(For register data)
12729	Complete new config.	Write 2

3.1.148 Monitoring of the power supply voltage level IO-Modul 1-8 with alarm

12730	IO-module 1 actual Voltage level	0.1V resolution
12731	Set point for low power supply voltage	IO-module 1
12732	IO-module 2 actual Voltage level	0.1V upplösning
12733	Set point for low power supply voltage	IO-module 2
12734	IO-module 3 actual Voltage level	0.1V resolution
12735	Set point for low power supply voltage	IO-module 3
12736	IO-module 4 actual Voltage level	0.1V resolution
12737	Set point for low power supply voltage	IO-module 4
12738	IO-module 5 actual Voltage level	0.1V resolution
12739	Set point for low power supply voltage	IO-module 5
12740	IO-module 6 actual Voltage level	0.1V resolution
12741	Set point for low power supply voltage	IO-module 6
12742	IO-module 7 actual Voltage level	0.1V resolution
12743	Set point for low power supply voltage	IO-module 7
12744	IO-module 8 actual Voltage level	0.1V resolution
12745	Set point for low power supply voltage	IO-module 8

3.1.149 Cross-referens and dial signals COM Port 3-8

3.1.149.1 COM3:

12800	Reserve	
12801	Cross-reference	1=active, 0=Inactive
12802	Number of dial signals before modem answering.	0=Autoanswering inactive
12803	Reserve	

3.1.149.2 COM4:

12804	Reserve	
12805	Cross-reference	1=active, 0=Inactive
12806	Number of dial signals before modem answering.	0=Autoanswering inactive
12807	Reserve	

3.1.149.3 COM5:

12808	Reserve	
12809	Cross-reference	1=active, 0=Inactive
12810	Antal ringsignaler för modem autosvar. 0=Autosvar avstängt	
12811	Reserve	

3.1.149.4 COM6:

12812	Reserve	
12813	Cross-reference	1=active, 0=Inactive
12814	Number of dial signals before modem answering.	0=Autoanswering inactive
12815	Reserve	

3.1.149.5 COM7:

12816	Reserve	
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Register no	Description	Scale factor / unit / note
12817	Cross-reference	1=active, 0=Inactive
12818	Number of dial signals before modem answering.	0=Autoanswering inactive
12819	Reserve	

3.1.149.6 COM8:

12820	Reserve	
12821	Cross-reference	1=active, 0=Inactive
12822	Number of dial signals before modem answering.	0=Autoanswering inactive
12823	Reserve	

3.1.150 Protocol and settings Com 3-8

3.1.150.1 COM 3

12824	Baudrate	0-10=0-115200 b/s
12825	Mode	Bitmask for RS232/485, paritet etc
12826	Protocol	0=Comli, 1=Modbus
12827	Init. of changes in baud and mode	
12828	Comli/Modbus ID	
12829	Timeout	

3.1.150.2 COM 4

12830	Baudrate	0-10=0-115200 b/s
12831	Mode	Bitmask for RS232/485, paritet etc
12832	Protocol	0=Comli, 1=Modbus
12833	Init. of changes in baud and mode	
12834	Comli/Modbus ID	
12835	Timeout	

3.1.150.3 COM 5

12836	Baudrate	0-10=0-115200 b/s
12837	Mode	Bitmask for RS232/485, paritet etc
12838	Protocol	0=Comli, 1=Modbus
12839	Init. of changes in baud and mode	
12840	Comli/Modbus ID	
12841	Timeout	

3.1.150.4 COM 6

12842	Baudrate	0-10=0-115200 b/s
12843	Mode	Bitmask for RS232/485, paritet etc
12844	Protocol	0=Comli, 1=Modbus
12845	Init. of changes in baud and mode	
12846	Comli/Modbus ID	
12847	Timeout	

3.1.150.5 COM 7

12848	Baudrate	0-10=0-115200 b/s
12849	Mode	Bitmask for RS232/485, paritet etc
12850	Protocol	0=Comli, 1=Modbus
12851	Init. of changes in baud and mode	
12852	Comli/Modbus ID	
12853	Timeout	

3.1.150.6 COM 8

12854	Baudrate	0-10=0-115200 b/s
12855	Mode	Bitmask for RS232/485, paritet etc
12856	Protocol	0=Comli, 1=Modbus
12857	Init. of changes in baud and mode	

Register no	Description	Scale factor / unit / note
12858	Comli/Modbus ID	
12859	Timeout	
3.1.151 Modbus master messages 1-127		
3.1.151.1 Modbus master message 1		
12860	Master channel	0-7
12861	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12862	Read from / Write to	0=Read, 1=Write
12863	Local IO / reg. no	
12864	Slave IO / reg. No	
3.1.151.2 Modbus master message 2		
12866	Master channel	0-7
12867	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12868	Read from / Write to	0=Read, 1=Write
12869	Local IO / reg. no	
12870	Slave IO / reg. No	
3.1.151.3 Modbus master message 3		
12872	Master channel	0-7
12873	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12874	Read from / Write to	0=Read, 1=Write
12875	Lokalt IO / reg. nr	
12876	Slavens IO / reg. nr	
3.1.151.4 Modbus master message 4		
12878	Master channel	0-7
12879	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12880	Read from / Write to	0=Read, 1=Write
12881	Local IO / reg. no	
12882	Slave IO / reg. No	
3.1.151.5 Modbus master message 5		
12884	Master channel	0-7
12885	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12886	Read from / Write to	0=Read, 1=Write
12887	Local IO / reg. no	
12888	Slave IO / reg. No	
3.1.151.6 Modbus master message 6		
12890	Master channel	0-7
12891	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12892	Read from / Write to	0=Read, 1=Write
12893	Lokalt IO / reg. nr	
12894	Slavens IO / reg. nr	
3.1.151.7 Modbus master message 7		
12896	Master channel	0-7
12897	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12898	Read from / Write to	0=Read, 1=Write
12899	Local IO / reg. no	
12900	Slave IO / reg. No	
3.1.151.8 Modbus master message 8		
12902	Master channel	0-7
12903	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg

Register no	Description	Scale factor / unit / note
12904	Read from / Write to	0=Read, 1=Write
12905	Local IO / reg. no	
12906	Slave IO / reg. No	
3.1.151.9 Modbus master message 9		
12908	Master channel	0-7
12909	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12910	Read from / Write to	0=Read, 1=Write
12911	Lokalt IO / reg. nr	
12912	Slavens IO / reg. nr	
3.1.151.10 Modbus master message 10		
12914	Master channel	0-7
12915	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12916	Read from / Write to	0=Read, 1=Write
12917	Local IO / reg. no	
12918	Slave IO / reg. No	
3.1.151.11 Modbus master message 11		
12920	Master channel	0-7
12921	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12922	Read from / Write to	0=Read, 1=Write
12923	Local IO / reg. no	
12924	Slave IO / reg. No	
3.1.151.12 Modbus master message 12		
12926	Master channel	0-7
12927	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12928	Read from / Write to	0=Read, 1=Write
12929	Lokalt IO / reg. nr	
12930	Slavens IO / reg. nr	
3.1.151.13 Modbus master message 13		
12932	Master channel	0-7
12933	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12934	Read from / Write to	0=Read, 1=Write
12935	Local IO / reg. no	
12936	Slave IO / reg. No	
3.1.151.14 Modbus master message 14		
12938	Master channel	0-7
12939	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12940	Read from / Write to	0=Read, 1=Write
12941	Local IO / reg. no	
12942	Slave IO / reg. No	
3.1.151.15 Modbus master message 15		
12944	Master channel	0-7
12945	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12946	Read from / Write to	0=Read, 1=Write
12947	Lokalt IO / reg. nr	
12948	Slavens IO / reg. nr	
3.1.151.16 Modbus master message 16		
12950	Master channel	0-7
12951	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12952	Read from / Write to	0=Read, 1=Write
12953	Local IO / reg. no	

Register no	Description	Scale factor / unit / note
12954	Slave IO / reg. No	
3.1.151.17	Modbus master message 17	
12956	Master channel	0-7
12957	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12958	Read from / Write to	0=Read, 1=Write
12959	Local IO / reg. no	
12960	Slave IO / reg. No	
3.1.151.18	Modbus master message 18	
12962	Master channel	0-7
12963	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12964	Read from / Write to	0=Read, 1=Write
12965	Lokalt IO / reg. nr	
12966	Slavens IO / reg. nr	
3.1.151.19	Modbus master message 19	
12968	Master channel	0-7
12969	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12970	Read from / Write to	0=Read, 1=Write
12971	Local IO / reg. no	
12972	Slave IO / reg. No	
3.1.151.20	Modbus master message 20	
12974	Master channel	0-7
12975	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12976	Read from / Write to	0=Read, 1=Write
12977	Local IO / reg. no	
12978	Slave IO / reg. No	
3.1.151.21	Modbus master message 21	
12980	Master channel	0-7
12981	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12982	Read from / Write to	0=Read, 1=Write
12983	Lokalt IO / reg. nr	
12984	Slavens IO / reg. nr	
3.1.151.22	Modbus master message 22	
12986	Master channel	0-7
12987	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12988	Read from / Write to	0=Read, 1=Write
12989	Local IO / reg. no	
12990	Slave IO / reg. No	
3.1.151.23	Modbus master message 23	
12992	Master channel	0-7
12993	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
12994	Read from / Write to	0=Read, 1=Write
12995	Local IO / reg. no	
12996	Slave IO / reg. No	
3.1.151.24	Modbus master message 24	
12998	Master channel	0-7
12999	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13000	Read from / Write to	0=Read, 1=Write
13001	Lokalt IO / reg. nr	
13002	Slavens IO / reg. nr	

Register no	Description	Scale factor / unit / note
3.1.151.25	Modbus master message 25	
13004	Master channel	0-7
13005	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13006	Read from / Write to	0=Read, 1=Write
13007	Local IO / reg. no	
13008	Slave IO / reg. No	
3.1.151.26	Modbus master message 26	
13010	Master channel	0-7
13011	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13012	Read from / Write to	0=Read, 1=Write
13013	Local IO / reg. no	
13014	Slave IO / reg. No	
3.1.151.27	Modbus master message 27	
13016	Master channel	0-7
13017	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13018	Read from / Write to	0=Read, 1=Write
13019	Lokalt IO / reg. nr	
13020	Slavens IO / reg. nr	
3.1.151.28	Modbus master message 28	
13022	Master channel	0-7
13023	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13024	Read from / Write to	0=Read, 1=Write
13025	Local IO / reg. no	
13026	Slave IO / reg. No	
3.1.151.29	Modbus master message 29	
13028	Master channel	0-7
13029	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13030	Read from / Write to	0=Read, 1=Write
13031	Local IO / reg. no	
13032	Slave IO / reg. No	
3.1.151.30	Modbus master message 30	
13034	Master channel	0-7
13035	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13036	Read from / Write to	0=Read, 1=Write
13037	Lokalt IO / reg. nr	
13038	Slavens IO / reg. nr	
3.1.151.31	Modbus master message 31	
13040	Master channel	0-7
13041	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13042	Read from / Write to	0=Read, 1=Write
13043	Local IO / reg. no	
13044	Slave IO / reg. No	
3.1.151.32	Modbus master message 32	
13046	Master channel	0-7
13047	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13048	Read from / Write to	0=Read, 1=Write
13049	Local IO / reg. no	
13050	Slave IO / reg. No	
3.1.151.33	Modbus master message 33	
13052	Master channel	0-7

Register no	Description	Scale factor / unit / note
13053	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13054	Read from / Write to	0=Read, 1=Write
13055	Lokalt IO / reg. nr	
13056	Slavens IO / reg. nr	
3.1.151.34	Modbus master message 34	
13058	Master channel	0-7
13059	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13060	Read from / Write to	0=Read, 1=Write
13061	Local IO / reg. no	
13062	Slave IO / reg. No	
3.1.151.35	Modbus master message 35	
13064	Master channel	0-7
13065	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13066	Read from / Write to	0=Read, 1=Write
13067	Local IO / reg. no	
13068	Slave IO / reg. No	
3.1.151.36	Modbus master message 36	
13070	Master channel	0-7
13071	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13072	Read from / Write to	0=Read, 1=Write
13073	Lokalt IO / reg. nr	
13074	Slavens IO / reg. nr	
3.1.151.37	Modbus master message 37	
13076	Master channel	0-7
13077	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13078	Read from / Write to	0=Read, 1=Write
13079	Local IO / reg. no	
13080	Slave IO / reg. No	
3.1.151.38	Modbus master message 38	
13082	Master channel	0-7
13083	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13084	Read from / Write to	0=Read, 1=Write
13085	Local IO / reg. no	
13086	Slave IO / reg. No	
3.1.151.39	Modbus master message 39	
13088	Master channel	0-7
13089	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13090	Read from / Write to	0=Read, 1=Write
13091	Lokalt IO / reg. nr	
13092	Slavens IO / reg. nr	
3.1.151.40	Modbus master message 40	
13094	Master channel	0-7
13095	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13096	Read from / Write to	0=Read, 1=Write
13097	Local IO / reg. no	
13098	Slave IO / reg. No	
3.1.151.41	Modbus master message 41	
13100	Master channel	0-7
13101	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13102	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
13103	Local IO / reg. no	
13104	Slave IO / reg. No	
3.1.151.42	Modbus master message 42	
13106	Master channel	0-7
13107	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13108	Read from / Write to	0=Read, 1=Write
13109	Lokalt IO / reg. nr	
13110	Slavens IO / reg. nr	
3.1.151.43	Modbus master message 43	
13112	Master channel	0-7
13113	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13114	Read from / Write to	0=Read, 1=Write
13115	Local IO / reg. no	
13116	Slave IO / reg. No	
3.1.151.44	Modbus master message 44	
13118	Master channel	0-7
13119	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13120	Read from / Write to	0=Read, 1=Write
13121	Local IO / reg. no	
13122	Slave IO / reg. No	
3.1.151.45	Modbus master message 45	
13124	Master channel	0-7
13125	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13126	Read from / Write to	0=Read, 1=Write
13127	Lokalt IO / reg. nr	
13128	Slavens IO / reg. nr	
3.1.151.46	Modbus master message 46	
13130	Master channel	0-7
13131	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13132	Read from / Write to	0=Read, 1=Write
13133	Local IO / reg. no	
13134	Slave IO / reg. No	
3.1.151.47	Modbus master message 47	
13136	Master channel	0-7
13137	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13138	Read from / Write to	0=Read, 1=Write
13139	Local IO / reg. no	
13140	Slave IO / reg. No	
3.1.151.48	Modbus master message 48	
13142	Master channel	0-7
13143	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13144	Read from / Write to	0=Read, 1=Write
13145	Lokalt IO / reg. nr	
13146	Slavens IO / reg. nr	
3.1.151.49	Modbus master message 49	
13148	Master channel	0-7
13149	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13150	Read from / Write to	0=Read, 1=Write
13151	Local IO / reg. no	
13152	Slave IO / reg. No	

Register no	Description	Scale factor / unit / note
3.1.151.50	Modbus master message 50	
13154	Master channel	0-7
13155	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13156	Read from / Write to	0=Read, 1=Write
13157	Local IO / reg. no	
13158	Slave IO / reg. No	
3.1.151.51	Modbus master message 51	
13160	Master channel	0-7
13161	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13162	Read from / Write to	0=Read, 1=Write
13163	Lokalt IO / reg. nr	
13164	Slavens IO / reg. nr	
3.1.151.52	Modbus master message 52	
13166	Master channel	0-7
13167	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13168	Read from / Write to	0=Read, 1=Write
13169	Local IO / reg. no	
13170	Slave IO / reg. No	
3.1.151.53	Modbus master message 53	
13172	Master channel	0-7
13173	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13174	Read from / Write to	0=Read, 1=Write
13175	Local IO / reg. no	
13176	Slave IO / reg. No	
3.1.151.54	Modbus master message 54	
13178	Master channel	0-7
13179	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13180	Read from / Write to	0=Read, 1=Write
13181	Lokalt IO / reg. nr	
13182	Slavens IO / reg. nr	
3.1.151.55	Modbus master message 55	
13184	Master channel	0-7
13185	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13186	Read from / Write to	0=Read, 1=Write
13187	Local IO / reg. no	
13188	Slave IO / reg. No	
3.1.151.56	Modbus master message 56	
13190	Master channel	0-7
13191	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13192	Read from / Write to	0=Read, 1=Write
13193	Local IO / reg. no	
13194	Slave IO / reg. No	
3.1.151.57	Modbus master message 57	
13196	Master channel	0-7
13197	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13198	Read from / Write to	0=Read, 1=Write
13199	Lokalt IO / reg. nr	
13200	Slavens IO / reg. nr	
3.1.151.58	Modbus master message 58	
13202	Master channel	0-7

Register no	Description	Scale factor / unit / note
13203	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13204	Read from / Write to	0=Read, 1=Write
13205	Local IO / reg. no	
13206	Slave IO / reg. No	
3.1.151.59	Modbus master message 59	
13208	Master channel	0-7
13209	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13210	Read from / Write to	0=Read, 1=Write
13211	Local IO / reg. no	
13212	Slave IO / reg. No	
3.1.151.60	Modbus master message 60	
13214	Master channel	0-7
13215	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13216	Read from / Write to	0=Read, 1=Write
13217	Lokalt IO / reg. nr	
13218	Slavens IO / reg. nr	
3.1.151.61	Modbus master message 61	
13220	Master channel	0-7
13221	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13222	Read from / Write to	0=Read, 1=Write
13223	Local IO / reg. no	
13224	Slave IO / reg. No	
3.1.151.62	Modbus master message 62	
13226	Master channel	0-7
13227	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13228	Read from / Write to	0=Read, 1=Write
13229	Local IO / reg. no	
13230	Slave IO / reg. No	
3.1.151.63	Modbus master message 63	
13232	Master channel	0-7
13233	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13234	Read from / Write to	0=Read, 1=Write
13235	Lokalt IO / reg. nr	
13236	Slavens IO / reg. nr	
3.1.151.64	Modbus master message 64	
13238	Master channel	0-7
13239	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13240	Read from / Write to	0=Read, 1=Write
13241	Local IO / reg. no	
13242	Slave IO / reg. No	
3.1.151.65	Modbus master message 65	
13244	Master channel	0-7
13245	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13246	Read from / Write to	0=Read, 1=Write
13247	Local IO / reg. no	
13248	Slave IO / reg. No	
3.1.151.66	Modbus master message 66	
13250	Master channel	0-7
13251	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13252	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
13253	Lokalt IO / reg. nr	
13254	Slavens IO / reg. nr	
3.1.151.67	Modbus master message 67	
13256	Master channel	0-7
13257	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13258	Read from / Write to	0=Read, 1=Write
13259	Local IO / reg. no	
13260	Slave IO / reg. No	
3.1.151.68	Modbus master message 68	
13262	Master channel	0-7
13263	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13264	Read from / Write to	0=Read, 1=Write
13265	Local IO / reg. no	
13266	Slave IO / reg. No	
3.1.151.69	Modbus master message 69	
13268	Master channel	0-7
13269	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13270	Read from / Write to	0=Read, 1=Write
13271	Lokalt IO / reg. nr	
13272	Slavens IO / reg. nr	
3.1.151.70	Modbus master message 70	
13274	Master channel	0-7
13275	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13276	Read from / Write to	0=Read, 1=Write
13277	Local IO / reg. no	
13278	Slave IO / reg. No	
3.1.151.71	Modbus master message 71	
13280	Master channel	0-7
13281	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13282	Read from / Write to	0=Read, 1=Write
13283	Local IO / reg. no	
13284	Slave IO / reg. No	
3.1.151.72	Modbus master message 72	
13286	Master channel	0-7
13287	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13288	Read from / Write to	0=Read, 1=Write
13289	Lokalt IO / reg. nr	
13290	Slavens IO / reg. nr	
3.1.151.73	Modbus master message 73	
13292	Master channel	0-7
13293	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13294	Read from / Write to	0=Read, 1=Write
13295	Local IO / reg. no	
13296	Slave IO / reg. No	
3.1.151.74	Modbus master message 74	
13298	Master channel	0-7
13299	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13300	Read from / Write to	0=Read, 1=Write
13301	Local IO / reg. no	
13302	Slave IO / reg. No	

Register no	Description	Scale factor / unit / note
3.1.151.75	Modbus master message 75	
13304	Master channel	0-7
13305	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13306	Read from / Write to	0=Read, 1=Write
13307	Lokalt IO / reg. nr	
13308	Slavens IO / reg. nr	
3.1.151.76	Modbus master message 76	
13310	Master channel	0-7
13311	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13312	Read from / Write to	0=Read, 1=Write
13313	Local IO / reg. no	
13314	Slave IO / reg. No	
3.1.151.77	Modbus master message 77	
13316	Master channel	0-7
13317	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13318	Read from / Write to	0=Read, 1=Write
13319	Local IO / reg. no	
13320	Slave IO / reg. No	
3.1.151.78	Modbus master message 78	
13322	Master channel	0-7
13323	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13324	Read from / Write to	0=Read, 1=Write
13325	Lokalt IO / reg. nr	
13326	Slavens IO / reg. nr	
3.1.151.79	Modbus master message 79	
13328	Master channel	0-7
13329	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13330	Read from / Write to	0=Read, 1=Write
13331	Local IO / reg. no	
13332	Slave IO / reg. No	
3.1.151.80	Modbus master message 80	
13334	Master channel	0-7
13335	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13336	Read from / Write to	0=Read, 1=Write
13337	Local IO / reg. no	
13338	Slave IO / reg. No	
3.1.151.81	Modbus master message 81	
13340	Master channel	0-7
13341	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13342	Read from / Write to	0=Read, 1=Write
13343	Lokalt IO / reg. nr	
13344	Slavens IO / reg. nr	
3.1.151.82	Modbus master message 82	
13346	Master channel	0-7
13347	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13348	Read from / Write to	0=Read, 1=Write
13349	Local IO / reg. no	
13350	Slave IO / reg. No	
3.1.151.83	Modbus master message 83	
13352	Master channel	0-7

Register no	Description	Scale factor / unit / note
13353	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13354	Read from / Write to	0=Read, 1=Write
13355	Local IO / reg. no	
13356	Slave IO / reg. No	
3.1.151.84	Modbus master message 84	
13358	Master channel	0-7
13359	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13360	Read from / Write to	0=Read, 1=Write
13361	Lokalt IO / reg. nr	
13362	Slavens IO / reg. nr	
3.1.151.85	Modbus master message 85	
13364	Master channel	0-7
13365	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13366	Read from / Write to	0=Read, 1=Write
13367	Local IO / reg. no	
13368	Slave IO / reg. No	
3.1.151.86	Modbus master message 86	
13370	Master channel	0-7
13371	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13372	Read from / Write to	0=Read, 1=Write
13373	Local IO / reg. no	
13374	Slave IO / reg. No	
3.1.151.87	Modbus master message 87	
13376	Master channel	0-7
13377	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13378	Read from / Write to	0=Read, 1=Write
13379	Lokalt IO / reg. nr	
13380	Slavens IO / reg. nr	
3.1.151.88	Modbus master message 88	
13382	Master channel	0-7
13383	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13384	Read from / Write to	0=Read, 1=Write
13385	Local IO / reg. no	
13386	Slave IO / reg. No	
3.1.151.89	Modbus master message 89	
13388	Master channel	0-7
13389	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13390	Read from / Write to	0=Read, 1=Write
13391	Local IO / reg. no	
13392	Slave IO / reg. No	
3.1.151.90	Modbus master message 90	
13394	Master channel	0-7
13395	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13396	Read from / Write to	0=Read, 1=Write
13397	Lokalt IO / reg. nr	
13398	Slavens IO / reg. nr	
3.1.151.91	Modbus master message 91	
13400	Master channel	0-7
13401	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13402	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
13403	Local IO / reg. no	
13404	Slave IO / reg. No	
3.1.151.92	Modbus master message 92	
13406	Master channel	0-7
13407	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13408	Read from / Write to	0=Read, 1=Write
13409	Local IO / reg. no	
13410	Slave IO / reg. No	
3.1.151.93	Modbus master message 93	
13412	Master channel	0-7
13413	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13414	Read from / Write to	0=Read, 1=Write
13415	Lokalt IO / reg. nr	
13416	Slavens IO / reg. nr	
3.1.151.94	Modbus master message 94	
13418	Master channel	0-7
13419	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13420	Read from / Write to	0=Read, 1=Write
13421	Local IO / reg. no	
13422	Slave IO / reg. No	
3.1.151.95	Modbus master message 95	
13424	Master channel	0-7
13425	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13426	Read from / Write to	0=Read, 1=Write
13427	Local IO / reg. no	
13428	Slave IO / reg. No	
3.1.151.96	Modbus master message 96	
13430	Master channel	0-7
13431	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13432	Read from / Write to	0=Read, 1=Write
13433	Lokalt IO / reg. nr	
13434	Slavens IO / reg. nr	
3.1.151.97	Modbus master message 97	
13436	Master channel	0-7
13437	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13438	Read from / Write to	0=Read, 1=Write
13439	Local IO / reg. no	
13440	Slave IO / reg. No	
3.1.151.98	Modbus master message 98	
13442	Master channel	0-7
13443	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13444	Read from / Write to	0=Read, 1=Write
13445	Local IO / reg. no	
13446	Slave IO / reg. No	
3.1.151.99	Modbus master message 99	
13448	Master channel	0-7
13449	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13450	Read from / Write to	0=Read, 1=Write
13451	Lokalt IO / reg. nr	
13452	Slavens IO / reg. nr	

Register no	Description	Scale factor / unit / note
3.1.151.100	Modbus master message 100	
13454	Master channel	0-7
13455	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13456	Read from / Write to	0=Read, 1=Write
13457	Local IO / reg. no	
13458	Slave IO / reg. No	
3.1.151.101	Modbus master message 101	
13460	Master channel	0-7
13461	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13462	Read from / Write to	0=Read, 1=Write
13463	Local IO / reg. no	
13464	Slave IO / reg. No	
3.1.151.102	Modbus master message 102	
13466	Master channel	0-7
13467	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13468	Read from / Write to	0=Read, 1=Write
13469	Lokalt IO / reg. nr	
13470	Slavens IO / reg. nr	
3.1.151.103	Modbus master message 103	
13472	Master channel	0-7
13473	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13474	Read from / Write to	0=Read, 1=Write
13475	Local IO / reg. no	
13476	Slave IO / reg. No	
3.1.151.104	Modbus master message 104	
13478	Master channel	0-7
13479	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13480	Read from / Write to	0=Read, 1=Write
13481	Local IO / reg. no	
13482	Slave IO / reg. No	
3.1.151.105	Modbus master message 105	
13484	Master channel	0-7
13485	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13486	Read from / Write to	0=Read, 1=Write
13487	Lokalt IO / reg. nr	
13488	Slavens IO / reg. nr	
3.1.151.106	Modbus master message 106	
13490	Master channel	0-7
13491	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13492	Read from / Write to	0=Read, 1=Write
13493	Local IO / reg. no	
13494	Slave IO / reg. No	
3.1.151.107	Modbus master message 107	
13496	Master channel	0-7
13497	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13498	Read from / Write to	0=Read, 1=Write
13499	Local IO / reg. no	
13500	Slave IO / reg. No	
3.1.151.108	Modbus master message 108	
13502	Master channel	0-7

Register no	Description	Scale factor / unit / note
13503	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13504	Read from / Write to	0=Read, 1=Write
13505	Lokalt IO / reg. nr	
13506	Slavens IO / reg. nr	
3.1.151.109	Modbus master message 109	
13508	Master channel	0-7
13509	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13510	Read from / Write to	0=Read, 1=Write
13511	Local IO / reg. no	
13512	Slave IO / reg. No	
3.1.151.110	Modbus master message 110	
13514	Master channel	0-7
13515	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13516	Read from / Write to	0=Read, 1=Write
13517	Local IO / reg. no	
13518	Slave IO / reg. No	
3.1.151.111	Modbus master message 111	
13520	Master channel	0-7
13521	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13522	Read from / Write to	0=Read, 1=Write
13523	Lokalt IO / reg. nr	
13524	Slavens IO / reg. nr	
3.1.151.112	Modbus master message 112	
13526	Master channel	0-7
13527	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13528	Read from / Write to	0=Read, 1=Write
13529	Local IO / reg. no	
13530	Slave IO / reg. No	
3.1.151.113	Modbus master message 113	
13532	Master channel	0-7
13533	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13534	Read from / Write to	0=Read, 1=Write
13535	Local IO / reg. no	
13536	Slave IO / reg. No	
3.1.151.114	Modbus master message 114	
13538	Master channel	0-7
13539	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13540	Read from / Write to	0=Read, 1=Write
13541	Lokalt IO / reg. nr	
13542	Slavens IO / reg. nr	
3.1.151.115	Modbus master message 115	
13544	Master channel	0-7
13545	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13546	Read from / Write to	0=Read, 1=Write
13547	Local IO / reg. no	
13548	Slave IO / reg. No	
3.1.151.116	Modbus master message 116	
13550	Master channel	0-7
13551	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13552	Read from / Write to	0=Read, 1=Write

Register no	Description	Scale factor / unit / note
13553	Local IO / reg. no	
13554	Slave IO / reg. No	
3.1.151.117	Modbus master message 117	
13556	Master channel	0-7
13557	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13558	Read from / Write to	0=Read, 1=Write
13559	Lokalt IO / reg. nr	
13560	Slavens IO / reg. nr	
3.1.151.118	Modbus master message 118	
13562	Master channel	0-7
13563	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13564	Read from / Write to	0=Read, 1=Write
13565	Local IO / reg. no	
13566	Slave IO / reg. No	
3.1.151.119	Modbus master message 119	
13568	Master channel	0-7
13569	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13570	Read from / Write to	0=Read, 1=Write
13571	Local IO / reg. no	
13572	Slave IO / reg. No	
3.1.151.120	Modbus master message 120	
13574	Master channel	0-7
13575	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13576	Read from / Write to	0=Read, 1=Write
13577	Lokalt IO / reg. nr	
13578	Slavens IO / reg. nr	
3.1.151.121	Modbus master message 121	
13580	Master channel	0-7
13581	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13582	Read from / Write to	0=Read, 1=Write
13583	Local IO / reg. no	
13584	Slave IO / reg. No	
3.1.151.122	Modbus master message 122	
13586	Master channel	0-7
13587	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13588	Read from / Write to	0=Read, 1=Write
13589	Local IO / reg. no	
13590	Slave IO / reg. No	
3.1.151.123	Modbus master message 123	
13592	Master channel	0-7
13593	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13594	Read from / Write to	0=Read, 1=Write
13595	Lokalt IO / reg. nr	
13596	Slavens IO / reg. nr	
3.1.151.124	Modbus master message 124	
13598	Master channel	0-7
13599	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13600	Read from / Write to	0=Read, 1=Write
13601	Local IO / reg. no	
13602	Slave IO / reg. No	

Register no	Description	Scale factor / unit / note
3.1.151.125	Modbus master message 125	
13604	Master channel	0-7
13605	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13606	Read from / Write to	0=Read, 1=Write
13607	Local IO / reg. no	
13608	Slave IO / reg. No	
3.1.151.126	Modbus master message 126	
13610	Master channel	0-7
13611	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13612	Read from / Write to	0=Read, 1=Write
13613	Lokalt IO / reg. nr	
13614	Slavens IO / reg. nr	
3.1.151.127	Modbus master message 127	
13616	Master channel	0-7
13617	Message type	0=Av,1=IO-bit,2=Reg,3=Crossref.reg.,4=Ext.reg
13618	Read from / Write to	0=Read, 1=Write
13619	Local IO / reg. no	
13620	Slave IO / reg. No	
3.1.152 Ramp times for Analogue outputs		
13622	Ramp time up for IO-module 1AO 1	0-99 seconds
13623	Ramp time down for IO-module 1AO 1	0-99 seconds
13624	Ramp time up for IO-module 1AO 2	0-99 seconds
13625	Ramp time down for IO-module 1AO 2	0-99 seconds
13626	Ramp time up for IO-module 2AO 1	0-99 seconds
13627	Ramp time down for IO-module 2AO 1	0-99 seconds
13628	Ramp time up for IO-module 2AO 2	0-99 seconds
13629	Ramp time down for IO-module 2AO 2	0-99 seconds
13630	Ramp time up for IO-module 3AO 1	0-99 seconds
13631	Ramp time down for IO-module 3AO 1	0-99 seconds
13632	Ramp time up for IO-module 3AO 2	0-99 seconds
13633	Ramp time down for IO-module 3AO 2	0-99 seconds
13634	Ramp time up for IO-module 4AO 1	0-99 seconds
13635	Ramp time down for IO-module 4AO 1	0-99 seconds
13636	Ramp time up for IO-module 4AO 2	0-99 seconds
13637	Ramp time down for IO-module 4AO 2	0-99 seconds
13638	Ramp time up for IO-module 5AO 1	0-99 seconds
13639	Ramp time down for IO-module 5AO 1	0-99 seconds
13640	Ramp time up for IO-module 5AO 2	0-99 seconds
13641	Ramp time down for IO-module 5AO 2	0-99 seconds
13642	Ramp time up for IO-module 6AO 1	0-99 seconds
13643	Ramp time down for IO-module 6AO 1	0-99 seconds
13644	Ramp time up for IO-module 6AO 2	0-99 seconds
13645	Ramp time down for IO-module 6AO 2	0-99 seconds
13646	Ramp time up for IO-module 7AO 1	0-99 seconds
13647	Ramp time down for IO-module 7AO 1	0-99 seconds
13648	Ramp time up for IO-module 7AO 2	0-99 seconds
13649	Ramp time down for IO-module 7AO 2	0-99 seconds
13650	Ramp time up for IO-module 8AO 1	0-99 seconds
13651	Ramp time down for IO-module 8AO 1	0-99 seconds
13652	Ramp time up for IO-module 8AO 2	0-99 seconds
13653	Ramp time down for IO-module 8AO 2	0-99 seconds

Register no	Description	Scale factor / unit / note
3.1.153	Analogue log channel 20-31, number of values in the expanded historic data	
13846	No. of values log ch. 20	Number of values
13847	No. of values log ch. 21	Number of values
13848	No. of values log ch. 22	Number of values
13849	No. of values log ch. 23	Number of values
13850	No. of values log ch. 24	Number of values
13851	No. of values log ch. 25	Number of values
13852	No. of values log ch. 26	Number of values
13853	No. of values log ch. 27	Number of values
13854	No. of values log ch. 28	Number of values
13855	No. of values log ch. 29	Number of values
13856	No. of values log ch. 30	Number of values
13857	No. of values log ch. 31	Number of values

3.1.154 Analogue log channel 0-31, Selection of the day in the exp. hist. data

13858	Selection of day in exp. data log ch. 0	0=today, 1= yesterday and up to 7 days back.
13859	Selection of day in exp. data log ch. 1	0=today, 1= yesterday and up to 7 days back.
13860	Selection of day in exp. data log ch. 2	0=today, 1= yesterday and up to 7 days back.
13861	Selection of day in exp. data log ch. 3	0=today, 1= yesterday and up to 7 days back.
13862	Selection of day in exp. data log ch. 4	0=today, 1= yesterday and up to 7 days back.
13863	Selection of day in exp. data log ch. 5	0=today, 1= yesterday and up to 7 days back.
13864	Selection of day in exp. data log ch. 6	0=today, 1= yesterday and up to 7 days back.
13865	Selection of day in exp. data log ch. 7	0=today, 1= yesterday and up to 7 days back.
13866	Selection of day in exp. data log ch. 8	0=today, 1= yesterday and up to 7 days back.
13867	Selection of day in exp. data log ch. 9	0=today, 1= yesterday and up to 7 days back.
13868	Selection of day in exp. data log ch. 10	0=today, 1= yesterday and up to 7 days back.
13869	Selection of day in exp. data log ch. 11	0=today, 1= yesterday and up to 7 days back.
13870	Selection of day in exp. data log ch. 12	0=today, 1= yesterday and up to 7 days back.
13871	Selection of day in exp. data log ch. 13	0=today, 1= yesterday and up to 7 days back.
13872	Selection of day in exp. data log ch. 14	0=today, 1= yesterday and up to 7 days back.
13873	Selection of day in exp. data log ch. 15	0=today, 1= yesterday and up to 7 days back.
13874	Selection of day in exp. data log ch. 16	0=today, 1= yesterday and up to 7 days back.
13875	Selection of day in exp. data log ch. 17	0=today, 1= yesterday and up to 7 days back.
13876	Selection of day in exp. data log ch. 18	0=today, 1= yesterday and up to 7 days back.
13877	Selection of day in exp. data log ch. 19	0=today, 1= yesterday and up to 7 days back.
13878	Selection of day in exp. data log ch. 20	0=today, 1= yesterday and up to 7 days back.
13879	Selection of day in exp. data log ch. 21	0=today, 1= yesterday and up to 7 days back.
13880	Selection of day in exp. data log ch. 22	0=today, 1= yesterday and up to 7 days back.
13881	Selection of day in exp. data log ch. 23	0=today, 1= yesterday and up to 7 days back.
13882	Selection of day in exp. data log ch. 24	0=today, 1= yesterday and up to 7 days back.
13883	Selection of day in exp. data log ch. 25	0=today, 1= yesterday and up to 7 days back.
13884	Selection of day in exp. data log ch. 26	0=today, 1= yesterday and up to 7 days back.
13885	Selection of day in exp. data log ch. 27	0=today, 1= yesterday and up to 7 days back.
13886	Selection of day in exp. data log ch. 28	0=today, 1= yesterday and up to 7 days back.
13887	Selection of day in exp. data log ch. 29	0=today, 1= yesterday and up to 7 days back.
13888	Selection of day in exp. data log ch. 30	0=today, 1= yesterday and up to 7 days back.
13889	Selection of day in exp. data log ch. 31	0=today, 1= yesterday and up to 7 days back.

Register no	Description	Scale factor / unit / note
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4 Appendics

4.1 Scalable cross reference:

Register 0-254 (telegram type 0 and 2) can be defined to hold preferred data by a cross reference table.

The extended Comli telegram (max 65535 reg.) is not affected by the cross-reference.

Together with the cross reference table there is a possibility to set an individual scale factor between 0 and 32767, for each position in the cross-reference list.

When reading data, the value is divided with corresponding scale factor. When writing data the value will be multiplied with corresponding scale factor.

Scale factor is ignored when set to 0.

(ex. running time in seconds is converted to minutes with scale factor 60).

For data in double registers (32 bits), the highest register number should be used together with scale factors.

Writing to the highest double register number will also set data in the lower register number if scale factor is set. If scale factor is set to zero, each register is handled individually.

Many registers allow negative values (signed 2-complement data). This can cause some systems to treat negative data as large positive numbers (ex. -1 is read as 65535 by the system).

To avoid this to cause problems there is a possibility to individually set cross reference registers to only positive data. Negative values will give zero readout.

4.2 Alarm acknowledgement for pump restart:

In some applications it is preferred to not automatically restart a pump before relevant alarms is acknowledged.

Following alarms can be set to block the pump until alarm is acknowledged.

- High motor current.
- Low motor current.
- Motor protection.
- High temperature
- Low pump capacity
- Run indication fail.

The configuration is done individually for each and alarm. Further a valve error can be set for pump blocking.

Note !! Valve blocking is made even if alarm type is not set (A,B,C) .

To restart the running of the pumps the actual alarm is reset manually on the PCx or via Comli/Modbus.

Combined alarm for "Pump alarm blocked". When acknowledging combined alarm "Pump alarm blocked" all not acknowledged alarms which are set to block actual pump are reset incl. blocking by valve error.

For Comli/Modbus there is a pump related indication of alarm blocking on IO 928-943 (P1-P16). Writing to these IO resets all actual pump alarms, which can cause blocking. The combined alarm "Pump(s) alarm blocked" is not acknowledged in this case.

Pump pit related indication that one or more pumps in the pit are alarm blocked is on IO 408-411 (PP.1 - PP.4). Writing to these IO resets actual alarms for all pumps, which belong to the pump pit, and resets ev. blocking from common Pump pit valve.

4.3 Unit identification:

Identification of hard and software is in register 445.

17=PCx

Register no	Description	Scale factor / unit / note
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4.4 Digital input types:

Type no.	Function	Object no. (Index area)
0	Closed	
1	High float Pump pit	1-4
2	Overflow Pump pit	1-4
3	Running indication pump	1-16
4	Motor protector pump	1-16
5	Temp protector pump	1-16
6	Block pump	1-16
7	Block Pump pit	1-4
8	End position valve open	1-16 + 17-20 for pump pit valves
9	End position valve closed	1-16 + 17-20 for pump pit valves
10	Pulse input (Rain, Flow, Energy)	1-8
11	Alarm input free choice.	-
12	Personal alarm (Visit and local indication)	-
13	External Personal alarm.	-
14	Start float.	1-16 + 17-20 for Pump pit
15	Stop float.	1-16 + 17-20 for Pump pit
16	Block PID controller	1-2
17	Block output	0-63 (IO-no)
18	Activate output	0-63 (IO-no)
19	Shift motor Max (end position)	1-4
20	Shift motor Min (end position)	1-4
21	Block Shift motor	1-4
22	Force Shift motor	1-4
23	Block Pump start.	1-16 + 17-20 for Pump pit
24	Block derivata control	1-4 (Pump pit)
25	Power Alarm	1-8 (IO-module)

Register no	Description	Scale factor / unit / note
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4.5 Digital output types:

Type no.	Function	Object no. (Index area)
0	Closed	
1	Pump	1-16
2	Valve control	1-16 + 17-20 for Pump pit valves
3	Open valve	1-16 + 17-20 for Pump pit valves
4	close valve	1-16 + 17-20 for Pump pit valves
5	Run. Ind. Pump pit	1-4
6	Signal not ackn. alarm	1-7 (Bit mask A, B and C alarm)
7	Selective alarm output (Conditional output for alarms)	
8	Remote controlled output	
9	Signal personal alarm: visit timer passed	
10	Signal active alarm	1-7 (Bit mask A, B and C alarm)
11	Alarm impulse new alarm	1-7 (Bit mask A, B and C alarm)
12	Reset Motor protector	1-16 + 17-20 for Pump pit reference
13	Pump reversing	1-16
14	Spraying (pre select on stop counter)	1-16 + 17-20 for Pump pit reference
15	Comli IO-bit (Indication/Pulse for free IO)	0-4095
16	Logic IO (Conditional output for 1-6 IO no.)	
17	Pre set pulse flow meter	1-4
18	Pre set pulse counter	1-8
19	Pre-set pulse pit flow	1-4
20	Timer	0-9 (0=free running, 1-4 = Pump pit, 5-8=Free, 9=Week timer)
21	Set point	Signal choice like Analogue output types
22	Speed controlled pump	1-16
23	Shift motor increase	1-4
24	Shift motor decrease	1-4
25	Compare register data	
26	Set-point window	Signal choice like Analogue output types
27	Modem Power	1-2 (COM 1-2)

4.6 Analogue input types:

Type no.	Function	Object no. (Index area)
0	Closed	
1	Motor current pump	1-16
2	Free choice input	
3	Level sensor Pump pit	0-4, (0=General 1-4 pump pit 1-4)
4	Level sensor channel flow	5-8 Flow meter 1-4
5	Level sensor overflow	1-4 (Pump pit 1-4)
6	Flow meter	5-8 (Flow meter 1-4)
7	Pressure out	0-4, (0=general, 1-4=pump group)
8	Pressure suction side	0-4, (0=general, 1-4=pump group)

NOTE! For type 4 and 6 totally 4 flow meter channels are available

Register no	Description	Scale factor / unit / note
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4.7 Analogue output types:

These types are the same for Analogue logger, mA output and signal indication on display.
NOTE! Object no. for Analogue output types has base 0.

Type no.	Function	Object no. (Index areas)
0	Level in Pump pit	0-3 (Pump pit 1-4)
1	Inflow Pump pit	0-3 (Pump pit 1-4)
2	Outflow Pump pit	0-3 (Pump pit 1-4)
3	Overflow Pump pit	0-3 (Pump pit 1-4)
4	Flow meter	4-7 (Flow meter 1-4)
5	Overflow level Pump pit	0-3 (Pump pit 1-4)
6	Level (channel) flow meter	4-7 (Flow meter 1-4)
7	Analogue value for Pulse channel	0-7 (Pulse channel 1-8)
8	Input on IO-module 1	0-3 (AI 1-4)
9	Input on IO-module 2	0-3 (AI 1-4)
10	Input on IO-module 3	0-3 (AI 1-4)
11	Input on IO-module 4	0-3 (AI 1-4)
12	Input on IO-module 5	0-3 (AI 1-4)
13	Input on IO-module 6	0-3 (AI 1-4)
14	Input on IO-module 7	0-3 (AI 1-4)
15	Input on IO-module 8	0-3 (AI 1-4)
16	Temperature signal on IO-module 1	0-3 (AI 1-4 for ultrasonic)
17	Comli register	0-12287
18	Controller signal PID controller	0-1
19	Speed PID controlled pump	0-1
20	Pressure (Out)	0-3 (Pump group 1-4)
21	Pressure Suction side	0-3 (Pump group 1-4)
22	Volume	0-3 (Pump pit 1-4)

4.8 Digital output parameters

4.8.1 Parameters for digital output function "Selective alarm output" (Type 7)

Parameter 1	Alarm number 1	0=Ignore
Parameter 2	Alarm number 2	0=Ignore
Parameter 3	Alarm number 3	0=Ignore
Parameter 4	Alarm number 4	0=Ignore
Parameter 5	Alarm number 5	0=Ignore
Parameter 6	Alarm number 6	0=Ignore
Parameter 7	Condition for multiple alarm numbers (OR, AND)	0=OR, 1=AND

4.8.2 Parameters for digital output function "Remote controlled output" (Type 8)

Parameter 1	On time	0-5999 sec. (99 min, 59 sec)
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4.8.3 Parameters for digital output function "Alarm pulse" (Type 11)

Parameter 1	Pulse time	0-5999 sec. (99 min, 59 sec)
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4.8.4 Parameters for digital output function "Reset motor protection" (Type 12)

Parameter 1	Pulse time	0-99 sec.
Parameter 2	Pause time	0-999 sec.
Parameter 3	Max. no of retries	1-3

4.8.5 Parameters for digital output function "Reverse pump" (Type 13)

Parameter 1	Reverse timed	0-999 sec.
Parameter 2	Pause time	0-999 sec.
Parameter 3	Pump relay Off/On during reverse	0=Off, 1=On

Register no	Description	Scale factor / unit / note
4.8.6	Parameters for digital output function "Spray" (Type 14)	
Parameter 1	Spray (flush) time	0-5999 sec.
Parameter 2	No of pump starts/stops between spray	0-99
Parameter 3	Spray on start or stop	0=Stop, 1=Start
4.8.7	Parameters for digital output function "Comli IO-bit" (Type 15)	
Parameter 1	Pulse time / Off delay	0-5999 sec.
Parameter 2	Block on unackn. alarm	0=Off, 1=On
Parameter 3	Select pulse or off delay.	0=Pulse output, 1=Off delay
Parameter 4	On delay	0-5999 sec.
4.8.8	Parameters for digital output function "Logic IO" (Type 16)	
Parameter 1	1:st Comli IO-no	0-4095, -1 (65535) = Inactive
Parameter 2	2:nd Comli IO-no	0-4095, -1 (65535) = Inactive
Parameter 3	3:rd Comli IO-no	0-4095, -1 (65535) = Inactive
Parameter 4	4:th Comli IO-no	0-4095, -1 (65535) = Inactive
Parameter 5	5:th Comli IO-no	0-4095, -1 (65535) = Inactive
Parameter 6	Bit mask normal/inverted signal	0=Inverted, 1=normal (Bit 0-4 = Signal 1-5)
Parameter 7	Logic condition	0=OR ON, 1=AND ON, 2=OR OFF, 3=AND OFF
4.8.9	Parameters for digital output function "Flow pulse from flow meter" (Type 17)	
Parameter 1	Pulse time	0-99 sec.
Parameter 2	Pre select volume/pulse	0.1 m ³
4.8.10	Parameters for digital output function " Flow pulse from pulse flow " (Type 18)	
Parameter 1	Pulse time	0-99 sec.
Parameter 2	Pre select volume/pulse	0.1 accumulated unit
4.8.11	Parameters for digital output function " Flow pulse from pump flow " (Type 19)	
Parameter 1	Pulse time	0-99 sec.
Parameter 2	Pre select volume/pulse	0.1 m ³
4.8.12	Parameters for digital output function "Timer" (Type 20)	
Parameter 1	Pulse time / Delay, Normal time	0-59999 sec.
Parameter 2	Pause time / Delay. Night time	0-59999 sec.
Parameter 3	Pulse / Timer status	0=Status night time, 1=Pulse at night time, 2=Pulse at normal time, 3=Pulse Normal and night time
4.8.13	Parameters for digital output function "Set point" (Type 21)	
Parameter 1	On delay	0-5999 sec.
Parameter 2	Object index for analogue signal	0- (Object type is specified in general reg. for object no)
Parameter 3	Select unit	0=standard unit, 1=alternate unit (For some signals)
Parameter 4	Set point on	High 16 bits (MSW)
Parameter 5	Set point on	Low 16 bits (LSW)
Parameter 6	Set point off	High 16 bits (MSW)
Parameter 7	Set point off	Low 16 bits (LSW)
4.8.14	Parameters for digital output function "Speed pump" (Type 22)	
Parameter 1	Control the pump run with this contact	0=No, 1=Yes (ordinary pump relay is blocked when pump is connected to freq. converter)

Register no	Description	Scale factor / unit / note
4.8.15 Parameters for digital output function "Compare register data" (Type 25)		
Parameter 1	Type of comparison	0=R.1<R.2, 1= R.1<=R.2, 2=R.1=R.2, 3= R.1>=R.2, 4=R.1>R.2
Parameter 2	Data register 1	0-65535
Parameter 3	Data register 2	0-65535
4.8.16 Parameters for digital output function "Setpoint window" (Type 26)		
Parameter 1	On delay	0-5999 sec.
Parameter 2	Object index for analogue signal	0- (Object type is specified in general reg. for object no)
Parameter 3	Select unit	0=standard unit, 1=alternate unit (For some signals)
Parameter 4	Set point Max	High 16 bits (MSW)
Parameter 5	Set point Max	Low 16 bits (LSW)
Parameter 6	Set point Min	High 16 bits (MSW)
Parameter 7	Set point Min	Low 16 bits (LSW)

4.9 Digital input parameters

4.9.1 Parameters for digital input function "Hold output" (Type 17)		
Parameter 1	IO-Module no.	1-8
Parameter 2	D.OUT no to block	1-8
4.9.2 Parameters for digital input function "Force output" (Type 18)		
Parameter 1	IO-Module no.	1-8
Parameter 2	D.OUT no to block	1-8
4.9.3 Parameters for digital input function "Block derivata control" (Type 24)		
Parameter 3	Type of blocking.	1-3 (1= start, 2=stop, 3= start and stop)