

Modbus® Protocol
Parameter List



Smart Pump Range

xylem

Table of Contents

1	Introduction and Safety	3
1.1	Purpose of this manual.....	3
1.2	Acronyms	3
2	Modbus® addresses	4
2.1	System information	4
2.2	Registers block #1	4
2.3	Factory restore	7
2.4	Registers block #2	8
2.5	Registers block #3	9
2.6	System life counters	9
2.7	Data log block #0	10
2.8	Data log block #1	11
2.9	Data log block #2	12
2.10	Data log block #3	13
2.11	Data log block #4	14
2.12	Data log block #5	15
2.13	Data log block #6	16
2.14	Data log block #7	17
2.15	BACnet device object ID.....	18
2.16	Communication port configuration	18

1 Introduction and Safety

1.1 Purpose of this manual

This manual shows and discusses the Modbus® addresses implemented in Smart Pump Range products.

The data managed by the Smart Pump Range unit consist of:

- Parameters: read & write, used to set modes, activate functions and write on the drive
- Information: read only, to acquire values from the drive.



CAUTION:

Before using the unit make, sure to read and fully understand the Smart Pump Range Use and Maintenance Manual.

1.2 Acronyms

MIN	Minimum
MAX	Maximum
DEF	Default
R	Read only
R/W	Read & Write
UM	Unit of measurement
LSW/MSW	Least Significant Word / Most Significant Word
N.A.	Not accessible through the user interface

2 Modbus® addresses

The data managed by the Smart Pump Range unit can be accessed considering the Modbus® virtual memory, consisting of Holding Registers for all values.

The Modbus® protocol function codes implemented in Smart Pump Range products are:

- Read Holding Registers (hex code 0x03), to read both Holding Registers representing Parameters and Information
- Write Multiple Registers (hex code 0x10), to write Holding Registers representing the Parameters.

The serial port factory configuration is 9600 baud, 8N1, slave 1.

2.1 System information

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
30 [R]	P17	P17	Software version	-	-	-	-
31 [R]	N.A.	N.A.	Map version progressive	-	-	-	-
32 [R]	N.A.	N.A.	Map version	-	-	-	-
33 [R]	N.A.	N.A.	Preset parameter progressive	-	-	-	-
34 [R]	N.A.	N.A.	Preset parameter version	-	-	-	-
35 [R]	N.A.	N.A.	Hydraulic version	-	-	-	-

2.2 Registers block #1

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
50 [R/W]	On display	On display	Start / Stop command 0 = [START] 1 = [STOP]	-	0	1	0
51 [R/W]	P04	N.A.	Auto-start 0 = [OFF] 1 = [ON]	-	0	1	1
52 [R/W]	P25	P25	Control mode 0 = [ACT] 1 = [CPP/HCS] 2 = [PPP/MSE] 3 = [MSY]	-	0	3	1
53 [R/W]	On display	On display	Speed set in ACT mode	rpm	min	max	-

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
54 [R]	P16	P16	Motor Speed	rpm	-	-	-
55 [R/W]	P41	P41	Pressure Sensor Unit Of Measure 0 = [BAR] 1 = [PSI]	-	0	1	0
56 [R/W]	On display	On display	Pressure setting for HCS / MSE / MSY / CPP	bar/100, psi/10	0	Depending on the type of pump unit	Depending on the type of pump unit
57 [R/W]	N.A.	On display	Pressure setting for PPP	bar/100, psi/10	0	Depending on the type of pump unit	Depending on the type of pump unit
58 [R]	P02	N.A.	Effective Required Value	bar/100, psi/10	-	-	-
59 [R/W]	N.A.	P40	Sensor selection 0 = [No sensor] 1 = [2 individual sensors] 2 = [1 differential sensor]	-	0	2	1
60 [R/W]	P42	P42	Full scale value for pressure sensor 1	bar/100, psi/10	0	2500 / 3630	Depending on the type of pump unit
61 [R/W]	N.A.	P43	Full scale value for pressure sensor 2	bar/100, psi/10	0	2500 / 3630	Depending on the type of pump unit
62 [R]	On display	On display	Current pressure	bar/100, psi/10	0	-	-
63 [R]	N.A.	N.A.	Reserved	-	-	-	-
64 [R]	P14	P14	Inverter Current	mA	0	-	-
65 [R]	P15	P15	Inverter Voltage	V	0	-	-
66 [R]	N.A.	N.A.	Current power	W	0	-	-
67 [R]	N.A.	N.A.	Temperature of winding 1	°C	0	255	-
68 [R]	N.A.	N.A.	Temperature of winding 2	°C	0	255	-
69 [R]	N.A.	N.A.	Temperature of winding 3	°C	0	255	-
70 [R]	P13	P13	Power Module Temperature	°C	0	255	-
71 [R]	On display	On display	Current error	-	-	-	0

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
72 [R]	N.A.	N.A.	Error bitField LSW bit 0: E01 Internal communication error bit 1: E02 Motor overload error bit 2: E03 DC-bus overvoltage error bit 3: E04 Motor step loss bit 4: E05 EEPROM Data memory error bit 5: E06 Grid voltage error bit 6: E07 Motor winding temperature error bit 7: E08 Power module temperature error bit 8: E05 Corrupted factory data bit 9: E05 Corrupted memory password bit 10: E09 NTC probe overtemperature bit 11: E10 Dry run bit 12: E09 NTC probe error bit 13: E04 Locked rotor bit 14: E09 Motor not connected bit 15 = E11 Error LOW	-	0	65535	0
73 [R]	N.A.	N.A.	Error bitField MSW bit 0: E12 Both sensors faulty bit 1: E13 Pressure sensor configuration error bit 2: E30 Multi-pump protocol error bit 3: E14 Low pressure error bit 4: E31 Pressure sensor error 1 bit 5: E32 Pressure sensor error 2 bit 6: E15 Loss of phase error bit 7: E05 Motor selection error	-	0	65535	0
74 [R]	On display	On display	Current alarm	-	-	-	0

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
75 [R]	N.A.	N.A.	Alarm bitField LSW bit 0: A15 EEPROM write failure bit 1: Incomplete factory data bit 2: A03 Derating bit 3: Invalid eeprom parameter bit 4: A06 LOW alarm bit 5: A30 Multi-pump connection alarm bit 6: A31 Loss of multi-pump connection bit 7: A05 Data memory alarm bit 9: A12 Both sensors faulty	-	-	-	-
76 [R]	N.A.	N.A.	Alarm bitField MSW bit 0: A20 Internal alarm bit 1: A20 Internal alarm bit 2: A20 Internal alarm bit 3: A20 Internal alarm bit 4: A20 Internal alarm bit 5: A20 Internal alarm bit 6: A20 Internal alarm	-	0	65535	0
77 [R/W]	P22	P22	System password	-	1	999	66
78 [R/W]	P23	P23	Lock Function 0 = [OFF] 1 = [ON]	-	0	1	1
79 [R]	P65	P65	Test Run - Time Start	h	0	100	100
80 [R/W]	P66	P66	Test Run - Speed	rpm	min rpm	max rpm	2000
81 [R/W]	P67	P67	Test Run - Time Duration	s	0	180	10

2.3 Factory restore

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
195 [R/W]	P68	P68	Default Values Reload 0 = [No] 1 = [Res]	-	0	1	0

2.4 Registers block #2

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
200 [R/W]	P26	P26	Max. RPM set	rpm	ACT set	3600	-
201 [R/W]	P27	P27	Min. RPM speed	rpm	800	ACT set	-
202 [R/W]	P28	N.A.	Ramp 1	s	1	250	3
203 [R/W]	P29	N.A.	Ramp 2	s	1	250	3
204 [R/W]	P30	N.A.	Ramp 3	s	1	999	35
205 [R/W]	P31	N.A.	Ramp 4	s	1	999	35
206 [R/W]	P32	N.A.	Ramp Speed Min Acceleration	s/10	20	250	20
207 [R/W]	P33	N.A.	Ramp Speed Min Deceleration	s/10	20	250	20
208 [R/W]	P34	N.A.	Speed Min Configuration 0 = [STP] 1 = [SMI]	-	0	1	Depending on the type of pump unit
209 [R/W]	P35	N.A.	Smin time	s	0	100	0
210 [R/W]	P36	N.A.	Window	%	0	100	10
211 [R/W]	P37	N.A.	Hysteresis	%	0	100	80
212 [R/W]	P03	N.A.	Regulation Restart Value	%	0	100	100
213 [R/W]	P45	N.A.	Pressure Minimum Threshold	bar/100, psi/10	0	max	0
214 [R/W]	P46	N.A.	Pressure Minimum Threshold - Delay Time	s	1	100	2
215 [R/W]	P47	N.A.	Pressure Minimum Threshold - Automatic Error Reset 0 = [OFF] 1 = [ON]	0	0	1	1
216 [R/W]	P69	P69	Avoid Frequent Parameters Saving 0 = [no] 1 = [yes]	-	0	1	0

2.5 Registers block #3

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
300 [R/W]	P56	N.A.	Multipump – Max Units	-	1	3	3
301 [R/W]	P57	N.A.	Multipump – Switch Interval	h	0	250	24
302 [R/W]	P61	N.A.	Multipump Synchronous – Speed Limit	rpm	min rpm	3600	Depending on the type of pump unit
303 [R/W]	P62	N.A.	Multipump Synchronous – Window	rpm	0	1000	150
304 [R/W]	P58	N.A.	Multipump – Actual Value Increase	bar/100, psi/10	0	2500 / 3630	35
305 [R/W]	P59	N.A.	Multipump – Actual Value Decrease	bar/100, psi/10	0	2500 / 3630	15
306 [R/W]	P48	P48	Lack Of Water Switch Input 0 = [dis] 1 = [ALR] 2 = [err]	-	0	2	0
307 [R/W]	P60	N.A.	Multipump – Enable Speed	rpm	min rpm	max rpm	Depending on the type of pump unit
308 [R]	P63	N.A.	Multipump – Priority	-	1	3	-
309 [R]	P64	N.A.	Multipump revision	-	-	-	-
310 [R/W]	P38	N.A.	Speed Lift	rpm	0	3600	min rpm
311 [R/W]	P39	N.A.	Lift Amount	%	0	200	0

2.6 System life counters

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1000 [R]	P05-P06	P05-P06	Operating time LSW	s	-	-	-
1001 [R]	P05-P06	P05-P06	Operating time MSW	s	-	-	-
1002 [R]	P07-P08	P07-P08	Motor time LSW	s	-	-	-
1003 [R]	P07-P08	P07-P08	Motor time MSW	s	-	-	-

2.7 Data log block #0

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1020 [R]	N.A.	N.A.	Error log [0] Error code	s	-	-	-
1021 [R]	N.A.	N.A.	Error log [0] Error start time LSW	s	-	-	-
1022 [R]	N.A.	N.A.	Error log [0] Error start time MSW	s	-	-	-
1023 [R]	N.A.	N.A.	Error log [0] Error end time LSW	s	-	-	-
1024 [R]	N.A.	N.A.	Error log [0] Error end time MSW	s	-	-	-
1025 [R]	N.A.	N.A.	Error log [0] Error BitField LSW	-	-	-	-
1026 [R]	N.A.	N.A.	Error log [0] Error occurrences counter	-	-	-	-
1027 [R]	N.A.	N.A.	Error log [0] Rev. set	rpm	-	-	-
1028 [R]	N.A.	N.A.	Error log [0] Rev. measured	rpm	-	-	-
1029 [R]	N.A.	N.A.	Error log [0] Phase current	mA	-	-	-
1030 [R]	N.A.	N.A.	Error log [0] Alarm BitField LSW	-	-	-	-
1031 [R]	N.A.	N.A.	Error log [0] Alarm BitField MSW	-	-	-	-
1032 [R]	N.A.	N.A.	Error log [0] Status BitField I/O	-	-	-	-
1033 [R]	N.A.	N.A.	Error log [0] Power	W	-	-	-
1034 [R]	N.A.	N.A.	Error log [0] Zero	-	-	-	-
1035 [R]	N.A.	N.A.	Error log [0] Pressure	bar/100, psi/10	-	-	-
1036 [R]	N.A.	N.A.	Error log [0] Power module temperature	°C	-	-	-
1037 [R]	N.A.	N.A.	Error log [0] Register value 50	-	-	-	-
1038 [R]	N.A.	N.A.	Error log [0] Reserved	-	-	-	-
1039 [R]	N.A.	N.A.	Error log [0] Error BitField MSW (three-phase only)	-	-	-	-
1040 [R]	N.A.	N.A.	Error log [0] Not used	-	-	-	-
1041 [R]	N.A.	N.A.	Error log [0] Not used	-	-	-	-

2.8 Data log block #1

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1050 [R]	N.A.	N.A.	Error log [1] Error code	s	-	-	-
1051 [R]	N.A.	N.A.	Error log [1] Error start time LSW	s	-	-	-
1052 [R]	N.A.	N.A.	Error log [1] Error start time MSW	s	-	-	-
1053 [R]	N.A.	N.A.	Error log [1] Error end time LSW	s	-	-	-
1054 [R]	N.A.	N.A.	Error log [1] Error end time MSW	s	-	-	-
1055 [R]	N.A.	N.A.	Error log [1] Error BitField LSW	-	-	-	-
1056 [R]	N.A.	N.A.	Error log [1] Error occurrences counter	-	-	-	-
1057 [R]	N.A.	N.A.	Error log [1] Rev. set	rpm	-	-	-
1058 [R]	N.A.	N.A.	Error log [1] Rev. measured	rpm	-	-	-
1059 [R]	N.A.	N.A.	Error log [1] Phase current	mA	-	-	-
1060 [R]	N.A.	N.A.	Error log [1] Alarm BitField LSW	-	-	-	-
1061 [R]	N.A.	N.A.	Error log [1] Alarm BitField MSW	-	-	-	-
1062 [R]	N.A.	N.A.	Error log [1] Status BitField I/O	-	-	-	-
1063 [R]	N.A.	N.A.	Error log [1] Power	W	-	-	-
1064 [R]	N.A.	N.A.	Error log [1] Zero	-	-	-	-
1065 [R]	N.A.	N.A.	Error log [1] Pressure	bar/100, psi/10	-	-	-
1066 [R]	N.A.	N.A.	Error log [1] Power module temperature	°C	-	-	-
1067 [R]	N.A.	N.A.	Error log [1] Register value 50	-	-	-	-
1068 [R]	N.A.	N.A.	Error log [1] Reserved	-	-	-	-
1069 [R]	N.A.	N.A.	Error log [1] Error BitField MSW (three-phase only)	-	-	-	-
1070 [R]	N.A.	N.A.	Error log [1] Not used	-	-	-	-
1071 [R]	N.A.	N.A.	Error log [1] Not used	-	-	-	-

2.9 Data log block #2

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1080 [R]	N.A.	N.A.	Error log [2] Error code	s	-	-	-
1081 [R]	N.A.	N.A.	Error log [2] Error start time LSW	s	-	-	-
1082 [R]	N.A.	N.A.	Error log [2] Error start time MSW	s	-	-	-
1083 [R]	N.A.	N.A.	Error log [2] Error end time LSW	s	-	-	-
1084 [R]	N.A.	N.A.	Error log [2] Error end time MSW	s	-	-	-
1085 [R]	N.A.	N.A.	Error log [2] Error BitField LSW	-	-	-	-
1086 [R]	N.A.	N.A.	Error log [2] Error occurrences counter	-	-	-	-
1087 [R]	N.A.	N.A.	Error log [2] Rev. set	rpm	-	-	-
1088 [R]	N.A.	N.A.	Error log [2] Rev. measured	rpm	-	-	-
1089 [R]	N.A.	N.A.	Error log [2] Phase current	mA	-	-	-
1090 [R]	N.A.	N.A.	Error log [2] Alarm BitField LSW	-	-	-	-
1091 [R]	N.A.	N.A.	Error log [2] Alarm BitField MSW	-	-	-	-
1092 [R]	N.A.	N.A.	Error log [2] Status BitField I/O	-	-	-	-
1093 [R]	N.A.	N.A.	Error log [2] Power	W	-	-	-
1094 [R]	N.A.	N.A.	Error log [2] Zero	-	-	-	-
1095 [R]	N.A.	N.A.	Error log [2] Pressure	bar/100, psi/10	-	-	-
1096 [R]	N.A.	N.A.	Error log [2] Power module temperature	°C	-	-	-
1097 [R]	N.A.	N.A.	Error log [2] Register value 50	-	-	-	-
1098 [R]	N.A.	N.A.	Error log [2] Reserved	-	-	-	-
1099 [R]	N.A.	N.A.	Error log [2] Error BitField MSW (three-phase only)	-	-	-	-
1100 [R]	N.A.	N.A.	Error log [2] Not used	-	-	-	-
1101 [R]	N.A.	N.A.	Error log [2] Not used	-	-	-	-

2.10 Data log block #3

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1110 [R]	N.A.	N.A.	Error log [3] Error code	s	-	-	-
1111 [R]	N.A.	N.A.	Error log [3] Error start time LSW	s	-	-	-
1112 [R]	N.A.	N.A.	Error log [3] Error start time MSW	s	-	-	-
1113 [R]	N.A.	N.A.	Error log [3] Error end time LSW	s	-	-	-
1114 [R]	N.A.	N.A.	Error log [3] Error end time MSW	s	-	-	-
1115 [R]	N.A.	N.A.	Error log [3] Error BitField LSW	-	-	-	-
1116 [R]	N.A.	N.A.	Error log [3] Error occurrences counter	-	-	-	-
1117 [R]	N.A.	N.A.	Error log [3] Rev. set	rpm	-	-	-
1118 [R]	N.A.	N.A.	Error log [3] Rev. measured	rpm	-	-	-
1119 [R]	N.A.	N.A.	Error log [3] Phase current	mA	-	-	-
1120 [R]	N.A.	N.A.	Error log [3] Alarm BitField LSW	-	-	-	-
1121 [R]	N.A.	N.A.	Error log [3] Alarm BitField MSW	-	-	-	-
1122 [R]	N.A.	N.A.	Error log [3] Status BitField I/O	-	-	-	-
1123 [R]	N.A.	N.A.	Error log [3] Power	W	-	-	-
1124 [R]	N.A.	N.A.	Error log [3] Zero	-	-	-	-
1125 [R]	N.A.	N.A.	Error log [3] Pressure	bar/100, psi/10	-	-	-
1126 [R]	N.A.	N.A.	Error log [3] Power module temperature	°C	-	-	-
1127 [R]	N.A.	N.A.	Error log [3] Register value 50	-	-	-	-
1128 [R]	N.A.	N.A.	Error log [3] Reserved	-	-	-	-
1129 [R]	N.A.	N.A.	Error log [3] Error BitField MSW (three-phase only)	-	-	-	-
1130 [R]	N.A.	N.A.	Error log [3] Not used	-	-	-	-
1131 [R]	N.A.	N.A.	Error log [3] Not used	-	-	-	-

2.11 Data log block #4

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1140 [R]	N.A.	N.A.	Error log [4] Error code	s	-	-	-
1141 [R]	N.A.	N.A.	Error log [4] Error start time LSW	s	-	-	-
1142 [R]	N.A.	N.A.	Error log [4] Error start time MSW	s	-	-	-
1143 [R]	N.A.	N.A.	Error log [4] Error end time LSW	s	-	-	-
1144 [R]	N.A.	N.A.	Error log [4] Error end time MSW	s	-	-	-
1145 [R]	N.A.	N.A.	Error log [4] Error BitField LSW	-	-	-	-
1146 [R]	N.A.	N.A.	Error log [4] Number occurrences counter	-	-	-	-
1147 [R]	N.A.	N.A.	Error log [4] Rev. set	rpm	-	-	-
1148 [R]	N.A.	N.A.	Error log [4] Rev. measured	rpm	-	-	-
1149 [R]	N.A.	N.A.	Error log [4] Phase current	mA	-	-	-
1150 [R]	N.A.	N.A.	Error log [4] Alarm BitField LSW	-	-	-	-
1151 [R]	N.A.	N.A.	Error log [4] Alarm BitField MSW	-	-	-	-
1152 [R]	N.A.	N.A.	Error log [4] Status BitField I/O	-	-	-	-
1153 [R]	N.A.	N.A.	Error log [4] Power	W	-	-	-
1154 [R]	N.A.	N.A.	Error log [4] Zero	-	-	-	-
1155 [R]	N.A.	N.A.	Error log [4] Pressure	bar/100, psi/10	-	-	-
1156 [R]	N.A.	N.A.	Error log [4] Power module temperature	°C	-	-	-
1157 [R]	N.A.	N.A.	Error log [4] Register value 50	-	-	-	-
1158 [R]	N.A.	N.A.	Error log [4] Reserved	-	-	-	-
1159 [R]	N.A.	N.A.	Error log [4] Error BitField MSW (three-phase only)	-	-	-	-
1160 [R]	N.A.	N.A.	Error log [4] Not used	-	-	-	-
1161 [R]	N.A.	N.A.	Error log [4] Not used	-	-	-	-

2.12 Data log block #5

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1170 [R]	N.A.	N.A.	Error log [5] Error code	s	-	-	-
1171 [R]	N.A.	N.A.	Error log [5] Error start time LSW	s	-	-	-
1172 [R]	N.A.	N.A.	Error log [5] Error start time MSW	s	-	-	-
1173 [R]	N.A.	N.A.	Error log [5] Error end time LSW	s	-	-	-
1174 [R]	N.A.	N.A.	Error log [5] Error end time MSW	s	-	-	-
1175 [R]	N.A.	N.A.	Error log [5] Error BitField LSW	-	-	-	-
1176 [R]	N.A.	N.A.	Error log [5] Number occurrences counter	-	-	-	-
1177 [R]	N.A.	N.A.	Error log [5] Rev. set	rpm	-	-	-
1178 [R]	N.A.	N.A.	Error log [5] Rev. measured	rpm	-	-	-
1179 [R]	N.A.	N.A.	Error log [5] Phase current	mA	-	-	-
1180 [R]	N.A.	N.A.	Error log [5] Alarm BitField LSW	-	-	-	-
1181 [R]	N.A.	N.A.	Error log [5] Alarm BitField MSW	-	-	-	-
1182 [R]	N.A.	N.A.	Error log [5] Status BitField I/O	-	-	-	-
1183 [R]	N.A.	N.A.	Error log [5] Power	W	-	-	-
1184 [R]	N.A.	N.A.	Error log [5] Zero	-	-	-	-
1185 [R]	N.A.	N.A.	Error log [5] Pressure	bar/100, psi/10	-	-	-
1186 [R]	N.A.	N.A.	Error log [5] Power module temperature	°C	-	-	-
1187 [R]	N.A.	N.A.	Error log [5] Register value 50	-	-	-	-
1188 [R]	N.A.	N.A.	Error log [5] Reserved	-	-	-	-
1189 [R]	N.A.	N.A.	Error log [5] Error BitField MSW (three-phase only)	-	-	-	-
1190 [R]	N.A.	N.A.	Error log [5] Not used	-	-	-	-
1191 [R]	N.A.	N.A.	Error log [5] Not used	-	-	-	-

2.13 Data log block #6

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1200 [R]	N.A.	N.A.	Error log [6] Error code	s	-	-	-
1201 [R]	N.A.	N.A.	Error log [6] Error start time LSW	s	-	-	-
1202 [R]	N.A.	N.A.	Error log [6] Error start time MSW	s	-	-	-
1203 [R]	N.A.	N.A.	Error log [6] Error end time LSW	s	-	-	-
1204 [R]	N.A.	N.A.	Error log [6] Error end time MSW	s	-	-	-
1205 [R]	N.A.	N.A.	Error log [6] Error BitField LSW	-	-	-	-
1206 [R]	N.A.	N.A.	Error log [6] Number occurrences counter	-	-	-	-
1207 [R]	N.A.	N.A.	Error log [6] Rev. set	rpm	-	-	-
1208 [R]	N.A.	N.A.	Error log [6] Rev. measured	rpm	-	-	-
1209 [R]	N.A.	N.A.	Error log [6] Phase current	mA	-	-	-
1210 [R]	N.A.	N.A.	Error log [6] Alarm BitField LSW	-	-	-	-
1211 [R]	N.A.	N.A.	Error log [6] Alarm BitField MSW	-	-	-	-
1212 [R]	N.A.	N.A.	Error log [6] Status BitField I/O	-	-	-	-
1213 [R]	N.A.	N.A.	Error log [6] Power	W	-	-	-
1214 [R]	N.A.	N.A.	Error log [6] Zero	-	-	-	-
1215 [R]	N.A.	N.A.	Error log [6] Pressure	bar/100, psi/10	-	-	-
1216 [R]	N.A.	N.A.	Error log [6] Power module temperature	°C	-	-	-
1217 [R]	N.A.	N.A.	Error log [6] Register value 50	-	-	-	-
1218 [R]	N.A.	N.A.	Error log [6] Reserved	-	-	-	-
1219 [R]	N.A.	N.A.	Error log [6] Error BitField MSW (three-phase only)	-	-	-	-
1220 [R]	N.A.	N.A.	Error log [6] Not used	-	-	-	-
1221 [R]	N.A.	N.A.	Error log [6] Not used	-	-	-	-

2.14 Data log block #7

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
1230 [R]	N.A.	N.A.	Error log [7] Error code	s	-	-	-
1231 [R]	N.A.	N.A.	Error log [7] Error start time LSW	s	-	-	-
1232 [R]	N.A.	N.A.	Error log [7] Error start time MSW	s	-	-	-
1233 [R]	N.A.	N.A.	Error log [7] Error end time LSW	s	-	-	-
1234 [R]	N.A.	N.A.	Error log [7] Error end time MSW	s	-	-	-
1235 [R]	N.A.	N.A.	Error log [7] Error BitField LSW	-	-	-	-
1236 [R]	N.A.	N.A.	Error log [7] Number occurrences counter	-	-	-	-
1237 [R]	N.A.	N.A.	Error log [7] Rev. set	rpm	-	-	-
1238 [R]	N.A.	N.A.	Error log [7] Rev. measured	rpm	-	-	-
1239 [R]	N.A.	N.A.	Error log [7] Phase current	mA	-	-	-
1240 [R]	N.A.	N.A.	Error log [7] Alarm BitField LSW	-	-	-	-
1241 [R]	N.A.	N.A.	Error log [7] Alarm BitField MSW	-	-	-	-
1242 [R]	N.A.	N.A.	Error log [7] Status BitField I/O	-	-	-	-
1243 [R]	N.A.	N.A.	Error log [7] Power	W	-	-	-
1244 [R]	N.A.	N.A.	Error log [7] Zero	-	-	-	-
1245 [R]	N.A.	N.A.	Error log [7] Pressure	bar/100, psi/10	-	-	-
1246 [R]	N.A.	N.A.	Error log [7] Power module temperature	°C	-	-	-
1247 [R]	N.A.	N.A.	Error log [7] Register value 50	-	-	-	-
1248 [R]	N.A.	N.A.	Error log [7] Reserved	-	-	-	-
1249 [R]	N.A.	N.A.	Error log [7] Error BitField MSW (three-phase only)	-	-	-	-
1250 [R]	N.A.	N.A.	Error log [7] Not used	-	-	-	-
1251 [R]	N.A.	N.A.	Error log [7] Not used	-	-	-	-

2.15 BACnet device object ID

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
5000 [R/W]	P53	P53	BACnet Device ID LSW	-	-	-	-
5001 [R/W]	P53	P53	BACnet Device ID MSW	-	-	-	-

Example of use:
 BACnet Device ID = 84123 (0x0001489B)
 Device Object ID LSW = 18587 (0x489B)
 Device Object ID MSW = 1 (0x0001)
 P53 = 123

2.16 Communication port configuration

Address (dec)	Menu Index e-HME, e-SVE, VME	Menu Index LNEEE, LNESE	Description	UM	MIN	MAX	DEF
5007 [R/W]	P50	P50	Communication protocol 0 = [MOD] 1 = [BAC]	-	0	1	0
5008 [R/W]	P51	P51	Communication protocol - Address	-	1/0	255/127	1
5009 [R/W]	P52	P52	Comm Protocol - BAUDRATE 0 = [4.8] 1 = [9.6] 2 = [14.4] 3 = [19.2] 4 = [38.4] 5 = [56.0] 6 = [57.6]	kbps	0	6	1
5010 [R/W]	P54	P54	Communication protocol - Configuration 0 = [8N1] 1 = [8N2] 2 = [8E1] 3 = [8O1]	-	0	3	0

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- 1) The tissue in plants that brings water upward from the roots;
- 2) A leading global water technology company.

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Software version LNEEE, LNESE: 151.01
Cod.001086070EN rev.B ed.04/2019