

Corrigo E Heating

List of network variables for EXOline and modbus communication

Covers all versions of Corrigo E Heating from revision 2.1-1-00

The challenger in building automation



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1. Corrigo E with modbus and EXOline communication

Introduction	Corrigo E Heating is a pre-programmed application controller for controlling of an heating system. This controller can either be stand-alone or built-in in an existing EXO-project, in both case it's configured by the display or by a configuration tool on pc (E Tool). This document will describe all the signals that are accessible via EXOline or Modbus. This document will <u>not</u> describe how to create an EXO project.
Signal types	All signals that are accessible from a SCADA system are described further in this document. The signals that have a default value are settings that can be changed from SCADA, the signals without default values is actual values and they can <u>not</u> be changed from SCADA.
EXOL Type	The EXOL type of the signals: R = Real (-3.3E38 - 3.3E38) I = Integer (-32768 - 32767) X = Index (0 - 255) L = Logic (0/1)
Modbus Type	The Modbus type of the signals (type in the list below): 1 = Coil Status Register (Modbus function = 1, 5 and 15) 2 = Input Status Register (Modbus function = 2) 3 = Holding Register (Modbus function = 3, 6 and 16) 4 = Input Register (Modbus function = 4) Supported Modbus functions: 1 = Read Coils 2 = Read Discrete Input 3 = Read Holding Register 4 = Read Input Register 5 = Write Single Coil 6 = Write Single Register 15 = Write Multiple Coils 16 = Write Multiple Registers
Max 47 register	Max 47 register can be read in one message

Communication limits The modbus master must wait for a minimum of 3.5 charactertimes (4ms at 9600 bps) between two messages. When the modbus master communicate with more than one Corrigo E controller on the same communication line (RS485), the modbus master must wait for a minimum of 14 charactertimes (16ms at 9600bps) between the answer and the first question for the next controller.

In the Corrigo E controller there is a limit of 10 fast communications in every half minute, the other communications will have a delayed answer of approximately 1 second.

Scale factor Modbus Real signals have scale factor 10 except the time settings signals that have scale factor 100 and Air flow signals that have scale factor 1 for modbus communication. Integer, Index and Logic has always scale factor 1.

Modbus activation In order to activate Modbus communication, an activation code must be entered, either by using the display and buttons on the Corrigo or by using E Tool. When the correct code has been entered Modbus communication will be activated automatically. Corrigo uses the same port for both Modbus communication and for EXOline communication. If you try to communicate with a Modbus-activated unit using E Tool or other EXOline communication the input port will will automatically adapt itself after approx. 1 second. The port will remain in EXO-mode until 10 seconds of communication inactivity have passed after which it will revert to Modbus mode.

Modbus limitations In order not to overload the Corrigo processor, a restriction of maximum 60 communications per minut has been set.

Modbus wiring etc. A protocol such as Modbus consists of several layers (OSI-model). The bottom layer is always the physical layer, number of wires and signal levels. the next layer describes the communication digits (number of data bits, stop-bits, parity etc). Then come the layers describing the Modbus specific functions (number of digits per message, the meaning of different messages etc).

For Modbus, the bottom layer can be RS485, RS422 or RS232.

RS485 contra RS422 RS485 and RS422 are the electric part of the protocol, i. e. the physical layer. RS485 has two connections, A and B. Often there is also a protective earth (N on EXOmodules). RS485 units are always connected A → A and B → B. RS485 is so called half duplex communication: Communication can only go in one direction at a time; i. e. the master will first send an enquiry and will thereafter listen for the reply. A and B are used for both transmission and reception.

RS422 is a full duplex communication which means you need 4 wires, 2 for transmit (Tx+ and Tx-) and 2 for receive (Rx+ and Rx-). Tx is used to transmit and Rx to receive which means that Tx in one unit must be connected to Rx in the other and vice versa. As for signal levels etc. RS422 and RS485 are identical.

To interconnect RS485 and RS422: On the RS422 unit connect Tx+ with Rx+ and Tx- with Rx-. We have now changed a 4-wire system to a 2-wire system and can connect them to A and B on the RS485 unit. Which goes where is something you most often need to find out by trial and error. Incorrect polarity will just give non-function but cannot harm either unit.



Tx- ----|----- B (or A)
|
Rx- ----|

Bitrate, two stop bits, parity is the next layer

These settings must correspond to the settings in the master unit. Find out how the master is set and then give the Corrigo E the same settings.

Parity can be set to odd, even or none. If none is chosen you normally set two stop-bits instead but this is not necessary. If odd or even is chosen you can only have one stop-bit. otherwise there will be too many bits altogether: 1 start-bit, 8 data-bits, 1 parity-bit and 1 stop-bit give a total of 11 bits which is maximum.

2. Actual/Setpoint

2.1. General

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_OutDoorTemp(0)	R,4	1		Outdoor temperature
Heating2.Cor_OutDoorTemp(0)	R,3	507		Outdoor temperature (Can be modified if it's not connected to a physic analog input).
TimePro.TimeGroupHS1	L,2	1		Is set if timechannel comfort time HS1 is active
TimePro.TimeGroupHS2	L,2	2		Is set if timechannel comfort time HS1 is active
TimePro.TimeGroupHS3	L,2	3		Is set if timechannel comfort time HS1 is active
TimePro.TimeGroupHW1	L,2	4		Is set if timechannel comfort time HW1 is active
TimePro.TimeGroupHW2	L,2	5		Is set if timechannel comfort time HW2 is active
TimePro.TimeGroupCor_ExtraTimeGroup1	L,2	6		Is set if timer output 1 is active
TimePro.TimeGroupCor_ExtraTimeGroup2	L,2	7		Is set if timer output 2 is active
TimePro.TimeGroupCor_ExtraTimeGroup3	L,2	8		Is set if timer output 3 is active
TimePro.TimeGroupCor_ExtraTimeGroup4	L,2	9		Is set if timer output 4 is active
TimePro.TimeGroupCor_ExtraTimeGroup5	L,2	10		Is set if timer output 5 is active

2.2. Heating System 1 (HS1)

Signal name	Type	Modbus address	Default value	Description
Heating4.Cor_HS1PID_Input	R,4R,4	2		Supply temperature HS1
Heating4.Cor_HS1PID_SetP	R,4	3		Outdoor compensated setpoint supply temperature HS1
Heating4.Cor_HS1Curve_X1	I,3	1	-20°C	Outdoor temp for first curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X2	I,3	2	-15°C	Outdoor temp for second curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X3	I,3	3	-10°C	Outdoor temp for third curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X4	I,3	4	-5°C	Outdoor temp for fourth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X5	I,3	5	0°C	Outdoor temp for fifth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X6	I,3	6	5°C	Outdoor temp for sixth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X7	I,3	7	10°C	Outdoor temp for seventh curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_X8	I,3	8	15°C	Outdoor temp for eighth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y1	I,3	9	67°C	Setpoint for first curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y2	I,3	10	63°C	Setpoint for second curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y3	I,3	11	59°C	Setpoint for third curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y4	I,3	12	55°C	Setpoint for fourth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y5	I,3	13	53°C	Setpoint for fifth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y6	I,3	14	43°C	Setpoint for sixth curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y7	I,3	15	35°C	Setpoint for seventh curvepoint for outdoor compensated setpoint HS1
Heating4.Cor_HS1Curve_Y8	I,3	16	25°C	Setpoint for eighth curvepoint for outdoor compensated setpoint HS1
Heating1. Cor_HS1ParallelTransfer	R,3	535	0 °C	Parallel transfer of setpointcurve HS1
Heating2.Cor_HS1RoomTemp	R,4	4		Room temperature HS1
Heating1.Cor_HS1RoomSetP	R,3R,3	17	21°C	Setpoint room temperature HS1
Heating2.Cor_HS1ReturnTemp	R,4	5		Return temperature HS1
Heating2.Cor_HS1PumpARun(0)	L,2	11		Is set if running pump HS1 P1A
Heating2.Cor_HS1PumpBRun	L,2	12		Is set if running pump HS1 P1B

Heating2.Cor_HS1PumpAStart(0)	L,2	103		Start signal pump HS1 P1A
Heating2.Cor_HS1PumpBStart	L,2	104		Start signal pump HS1 P1B
Heating2.Cor_HS1CV1(0)	R,4	153		Control signal HS1 CV (0-10 V)
Heating4.Cor_HS1PID_Output	R,4	160		Controller output HS1 (0-100%)
Heating1.Cor_HS1PumpDayLimit(0)	R,3	521	17°C	Outdoor temp for pump stop day HS1
Heating1.Cor_HS1PumpNightLimit(0)	R,3	524	17°C	Outdoor temp for pump stop night HS1

2.3. Heating System 2 (HS2)

Signal name	Type	Modbus address	Default value	Description
Heating4.Cor_HS2PID_Input	R,4	6		Supply temperature HS2
Heating4.Cor_HS2PID_SetP	R,4	7		Outdoor compensated setpoint supply temperature HS2
Heating4.Cor_HS2Curve_X1	I,3	18	-20°C	Outdoor temp for first curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X2	I,3	19	-15°C	Outdoor temp for second curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X3	I,3	20	-10°C	Outdoor temp for third curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X4	I,3	21	-5°C	Outdoor temp for fourth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X5	I,3	22	0°C	Outdoor temp for fifth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X6	I,3	23	5°C	Outdoor temp for sixth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X7	I,3	24	10°C	Outdoor temp for seventh curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_X8	I,3	25	15°C	Outdoor temp for eighth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y1	I,3	26	67°C	Setpoint for first curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y2	I,3	27	63°C	Setpoint for second curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y3	I,3	28	59°C	Setpoint for third curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y4	I,3	29	55°C	Setpoint for fourth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y5	I,3	30	53°C	Setpoint for fifth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y6	I,3	31	43°C	Setpoint for sixth curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y7	I,3	32	35°C	Setpoint for seventh curvepoint for outdoor compensated setpoint HS2
Heating4.Cor_HS2Curve_Y8	I,3	33	25°C	Setpoint for eighth curvepoint for outdoor compensated setpoint HS2

Heating1.Cor_HS2ParallelTransfer	R,3	536	0 °C	Parallel transfer of setpointcurve HS2
Heating2.Cor_HS2RoomTemp	R,4	8		Room temperature HS2
Heating1.Cor_HS2RoomSetP	R,3	34	21°C	Setpoint room temperature HS2
Heating2.Cor_HS2ReturnTemp	R,4	9		Return temperature HS2
Heating2.Cor_HS2PumpARun	L,2L,2	13		Is set if running pump HS2 P1A
Heating2.Cor_HS2PumpBRun	L,2L,2	14		Is set if running pump HS2 P1B
Heating2.Cor_HS2PumpAStart	L,2	105		Start signal pump HS2 P1A
Heating2.Cor_HS2PumpBStart	L,2	106		Start signal pump HS2 P1B
Heating2.Cor_HS2CV1	R,4	154		Control signal HS2 CV (0-10 V)
Heating4.Cor_HS2PID_Output	R,4	161		Controller output HS2 (0-100%)
Heating1.Cor_HS2PumpDayLimit(0)	R,3	522	17°C	Outdoor temp for pump stop day HS2
Heating1.Cor_HS2PumpNightLimit(0)	R,3	525	17°C	Outdoor temp for pump stop night HS2

2.4. Heating System 3 (HS3)

Signal name	Type	Modbus address	Default value	Description
Heating4.Cor_HS3PID_Input	R,4	10		Supply temperature HS3
Heating4.Cor_HS3PID_SetP	R,4	11		Outdoor compensated setpoint supply temperature HS3
Heating4.Cor_HS3Curve_X1	I,3	35	-20°C	Outdoor temp for first curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X2	I,3	36	-15°C	Outdoor temp for second curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X3	I,3	37	-10°C	Outdoor temp for third curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X4	I,3	38	-5°C	Outdoor temp for fourth curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X5	I,3	39	0°C	Outdoor temp for fifth curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X6	I,3	40	5°C	Outdoor temp for sixth curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X7	I,3	41	10°C	Outdoor temp for seventh curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_X8	I,3	42	15°C	Outdoor temp for eighth curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y1	I,3	43	67°C	Setpoint for first curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y2	I,3	44	63°C	Setpoint for second curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y3	I,3	45	59°C	Setpoint for third curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y4	I,3	46	55°C	Setpoint for fourth curvepoint for outdoor compensated setpoint HS3

Heating4.Cor_HS3Curve_Y5	I,3	47	53°C	Setpoint for fifth curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y6	I,3	48	43°C	Setpoint for sixth curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y7	I,3	49	35°C	Setpoint for seventh curvepoint for outdoor compensated setpoint HS3
Heating4.Cor_HS3Curve_Y8	I,3	50	25°C	Setpoint for eighth curvepoint for outdoor compensated setpoint HS3
Heating1. Cor_HS3ParallelTransfer	R,3	537	0 °C	Parallel transfer of setpointcurve HS3
Heating2.Cor_HS3RoomTemp	R,4	12		Room temperature HS3
Heating1.Cor_HS3RoomSetP	R,3	51	21°C	Setpoint room temperature HS3
Heating2.Cor_HS3ReturnTemp	R,4	13		Return temperature HS3
Heating2.Cor_HS3PumpARun	L,2	15		Is set if running pump HS3 P1A
Heating2.Cor_HS3PumpBRun	L,2	16		Is set if running pump HS3 P1B
Heating2.Cor_HS3PumpAStart	L,2	107		Start signal pump HS3 P1A
Heating2.Cor_HS3PumpBStart	L,2	108		Start signal pump HS3 P1B
Heating2.Cor_HS3CV1	R,4	155		Control signal HS3 CV (0-10 V)
Heating4.Cor_HS3PID_Output	R,4	162		Controller output HS3 (0-100%)
Heating1.Cor_HS3PumpDayLimit(0)	R,3	523	17°C	Outdoor temp for pump stop day HS3
Heating1.Cor_HS3PumpNightLimit(0)	R,3	526	17°C	Outdoor temp for pump stop night HS3

2.5. Hot Water 1 (HWC1)

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_HW1SupplyTemp	R,4	14		Supply temperature HWC1
Heating1.Cor_HW1Setpoint	R,3	52	55°C	Setpoint supply HWC1
Heating2. Cor_HW1PumpRun	L,2	17		Is set if running pump HW1
Heating2.Cor_HW1PumpStart	L,2	109		Start signal pump HW1
Heating2.Cor_HW1CV1	R,4	156		Control signal HW1 CV (0-10 V)
Heating4.Cor_HW1PID_Output	R,4	163		Controller output HW1 (0-100%)

2.6. Hot Water 2 (HWC2)

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_HW2SupplyTemp	R,4	15		Supply temperature HWC2
Heating1.Cor_HW2Setpoint	R,3	53	55°C	Setpoint supply HWC2
Heating2.Cor_HW2CV1	R,4	157		Control signal HWC2 CV (0-10 V)

Heating4.Cor_HW2PID_Output	R,4	164		Controller output HWC2 (0-100%)
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2.7. Primary Tap Hot Water (HP1)

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_HP1SupplyTemp	R,4	16		Supply temperature HP1
Heating2.Cor_HP1ReturnTemp	R,4	17		Return temperature HP1
Heating2.Cor_HP1PumpRun	L,2	18		Is set if running pump HP1
Heating1.Cor_HP1StartTemp	R,3	54	46°C	Start temperature for start of load pump HP1 on return temperature
Heating1.Cor_HP1StopTemp	R,3	55	55°C	Stop temperature for stop of load pump HP1 on supply temperature
Heating1.Cor_HP1TempDiff	R,3	56	2°C	Difference temperature for stop of load pump HP1 on return temperature
Heating2.Cor_HP1PumpStart	L,2	110		Start signal pump HP1

2.8. Boiler Control

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_BoilerTemp	R,4	18		Boiler temperature
Heating1.Cor_BoilerStartTemp1	R,3	57	45°C	Start temperature boiler for start signal 1
Heating1.Cor_BoilerStartTemp2	R,3	58	40°C	Start temperature boiler for start signal 2
Heating1.Cor_BoilerStopTemp	R,3	59	55°C	Stop temperature boiler
Heating2.Cor_BoilerStart1	L,2	112		Start signal 1 boiler
Heating2.Cor_BoilerStart2	L,2	113		Start signal 2 boiler

2.9. Difference Pressure Control (DP)

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_DP	R,4	19		Difference pressure (kPa)
Heating1.Cor_DPSetpoint	R,3	60	50kPa	Setpoint difference pressure
Heating2.Cor_FrequencyStart	L,2	111		Start signal Frequencer
Heating2.Cor_DPCV1	R,4	158		Control signal Frequencer (0-10 V)

Heating4.Cor_DPPID_Output	R,4	165		Controller output Frequencer (0-100%)
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2.10. Wind speed

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_Windspeed	R,4	20		Wind speed (m/s)
Heating1.Cor_WindScale	R,3	61	1m/s/V	Scale factor for wind speed meter
Heating1.Cor_HS1WindComp	R,3	62	0°C/m/s	Wind compensation HS1
Heating1.Cor_HS2WindComp	R,3	63	0°C/m/s	Wind compensation HS2
Heating1.Cor_HS3WindComp	R,3	64	0°C/m/s	Wind compensation HS3

3. Energy/Cold water

3.1. Heating Meter

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_EnergyConsumptionMWh	R,3	65		Energy total (MWh)
Heating2.Cor_WaterConsumptionm3	R,3	66		Hot water total (m3)
Heating2.Cor_EnergyConsumptionToday	R,4	21		Energy today (kWh)
Heating2.Cor_EnergyConsumptionYesterday	R,4	22		Energy yesterday (kWh)
Heating2.Cor_EnergyConsumptionBeforeYesterday	R,4	23		Energy day before yesterday (kWh)
Heating2.Cor_WaterConsumptionToday	R,4	24		Usage today (lit)
Heating2.Cor_WaterConsumptionYesterday	R,4	25		Usage yesterday (lit)
Heating2.Cor_WaterConsumptionBeforeYesterday	R,4	26		Usage day before yesterday (lit)
Heating2.Cor_EnergyEffect	R,4	27		Power usage instant kW
Heating2.Cor_EnergyEffectAverage	R,4	28		Power usage average
Heating2.Cor_EnergyEffectAverageMax	R,4	29		Power usage max average

3.2. Cold Water Meter 1 (CW1)

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_CW1Consumptionm3	R,3	67		Cold water 1 usage total (m3)
Heating2.Cor_CW1Flow	R,4	30		Cold water 1 flow (lit/min)

Heating2.Cor_CW1ConsumptionToday	R,4	31		Cold water 1 usage today (m3)
Heating2.Cor_CW1ConsumptionYesterday	R,4	32		Cold water 1 usage yesterday (m3)
Heating2.Cor_CW1ConsumptionBeforeYesterday	R,4	33		Cold water 1 usage day before yesterday (m3)
Heating2.Cor_CW1LowestConsumptionToday	R,4	34		Lowest cold water 1 usage today (lit/h)
Heating2.Cor_CW1LowestConsumptionYesterday	R,4	35		Lowest cold water 1 usage yesterday (lit/h)

3.3. Cold Water Meter 2 (CW2)

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_CW2Consumptionm3	R,3	68		Cold water 2 usage total (m3)
Heating2.Cor_CW2Flow	R,4	36		Cold water 2 flow (lit/min)
Heating2.Cor_CW2ConsumptionToday	R,4	37		Cold water 2 usage today (m3)
Heating2.Cor_CW2ConsumptionYesterday	R,4	38		Cold water 2 usage yesterday (m3)
Heating2.Cor_CW2ConsumptionBeforeYesterday	R,4	39		Cold water 2 usage day before yesterday (m3)
Heating2.Cor_CW2LowestConsumptionToday	R,4	40		Lowest cold water 2 usage today (lit/h)
Heating2.Cor_CW2LowestConsumptionYesterday	R,4	41		Lowest cold water 2 usage yesterday (lit/h)

3.4. Electricity Meter

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_ElectricConsumptionMWh	R,3	69		Energy total (MWh)

3.5. Leakage monitoring

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_Leak	R,4	42		Leakage power (kW)

4. Input/Output

4.1. Analogue inputs

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_AnalogInput1(0)	R,4	43		The scaled and filtered value of AI1
Heating2.Cor_AnalogInput2	R,4	44		The scaled and filtered value of AI2
Heating2.Cor_AnalogInput3	R,4	45		The scaled and filtered value of AI3
Heating2.Cor_AnalogInput4	R,4	46		The scaled and filtered value of AI4
Heating1.Cor_Ai1(0)	X,4	51		Connected signal on AI1: 0=Not used 1=Outdoor temp 2=HS1 Supply 3=HS2 Supply 4=HS3 Supply 5=HW1 Supply 6=HW2 Supply 7=HP1 Supply 8=HS1 Room 9=HS2 Room 10=HS3 Room 11=HS1 Return 12=HS2 Return 13=HS3 Return 14=HP1 Return 15=Wind 16=Pressure 17=Boiler temp
Heating1.Cor_Ai2	X,4	52		Connected signal on AI2: (See signal list for AI1)
Heating1.Cor_Ai3	X,4	53		Connected signal on AI3: (See signal list for AI1)
Heating1.Cor_Ai4	X,4	54		Connected signal on AI4: (See signal list for AI1)

4.2. Digital inputs

Signal name	Type	Modbus address	Default value	Description
QDig.DI1	L,2	19		Value of DI1
QDig.DI2	L,2	20		Value of DI2
QDig.DI3	L,2	21		Value of DI3
QDig.DI4	L,2	22		Value of DI4
QDig.DI5	L,2	23		Value of DI5
QDig.DI6	L,2	24		Value of DI6
QDig.DI7	L,2	25		Value of DI7
QDig.DI8	L,2	26		Value of DI8
Heating1.Cor_Di1(0)	X,4	59		Connected signal on DI1: 0=Not used 1=HS1-PumpA 2=HS1-PumpB 3=HS2-PumpA 4=HS2-PumpB 5=HS3-PumpA 6=HS3-PumpB 7=HW1-Pump 8=HP1-Pump 9=Frequencer 10=Expansion vessel 11=External alarm 12=Boiler alarm 13=Effect limiter 14=Heating pulse 15=Energy pulse 16=CW1 pulse 17=CW2 pulse 18=Electric pulse
Heating1.Cor_Di2	X,4	60		Connected signal on DI2: (See signal list for DI1)
Heating1.Cor_Di3	X,4	61		Connected signal on DI3: (See signal list for DI1)
Heating1.Cor_Di4	X,4	62		Connected signal on DI4: (See signal list for DI1)
Heating1.Cor_Di5	X,4	63		Connected signal on DI5: (See signal list for DI1)
Heating1.Cor_Di6	X,4	64		Connected signal on DI6: (See signal list for DI1)
Heating1.Cor_Di7	X,4	65		Connected signal on DI7: (See signal list for DI1)
Heating1.Cor_Di8	X,4	66		Connected signal on DI8: (See signal list for DI1)

4.3. Universal inputs

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_AnalogInput5	R,4	47		The scaled and filtered value of UAI1
Heating2.Cor_AnalogInput6	R,4	48		The scaled and filtered value of UAI2
Heating2.Cor_AnalogInput7	R,4	49		The scaled and filtered value of UAI3
Heating2.Cor_AnalogInput8	R,4	50		The scaled and filtered value of UAI4
Heating1.Cor_UAi1	X,4	55		Connected signal on UAI1: 0=Not used 1=Outdoor temp 2=HS1 Supply 3=HS2 Supply 4=HS3 Supply 5=HW1 Supply 6=HW2 Supply 7=HP1 Supply 8=HS1 Room 9=HS2 Room 10=HS3 Room 11=HS1 Return 12=HS2 Return 13=HS3 Return 14=HP1 Return 15=Wind 16=Pressure 17=Boiler temp
Heating1.Cor_UAi2	X,4	56		Connected signal on UAI2: (See signal list for UAI1)
Heating1.Cor_UAi3	X,4	57		Connected signal on UAI3: (See signal list for UAI1)
Heating1.Cor_UAi4	X,4	58		Connected signal on UAI4: (See signal list for UAI1)

Signal name	Type	Modbus address	Default value	Description
QDig.DI9	L,2	27		Value of UDI1
QDig.DI10	L,2	28		Value of UDI2
QDig.DI11	L,2	29		Value of UDI3
QDig.DI12	L,2	30		Value of UDI4

Heating1.Cor_UDi1	X,4	67		Connected signal on UDI1: 0=Not used 1=HS1-PumpA 2=HS1-PumpB 3=HS2-PumpA 4=HS2-PumpB 5=HS3-PumpA 6=HS3-PumpB 7=HW1-Pump 8=HP1-Pump 9=Frequencer 10=Expansion vessel 11=External alarm 12=Boiler alarm 13=Effect limiter 14=Heating pulse 15=Energy pulse 16=CW1 pulse 17=CW2 pulse 18=Electric pulse
Heating1.Cor_UDi2	X,4	68		Connected signal on UDI2: (See signal list for UDI1)
Heating1.Cor_UDi3	X,4	69		Connected signal on UDI3: (See signal list for UDI1)
Heating1.Cor_UDi4	X,4	70		Connected signal on UDI4: (See signal list for UDI1)

4.4. Analogue outputs

Signal name	Type	Modbus address	Default value	Description
QanaOut.AQ1	R,4	71		Value of AO1
QanaOut.AQ2	R,4	72		Value of AO2
QanaOut.AQ3	R,4	73		Value of AO3
QanaOut.AQ4	R,4	74		Value of AO4
QanaOut.AQ5	R,4	75		Value of AO5
Heating1.Cor_Ao1(0)	X,4	76		Connected signal on AO1: 0=Not used 1=HS1 Actuator 2=HS2 Actuator 3=HS3 Actuator 4=HW1 Actuator 5=HW2 Actuator 6=Pressure Act.
Heating1.Cor_Ao2	X,4	77		Connected signal on AO2: (See signal list for AO1)
Heating1.Cor_Ao3	X,4	78		Connected signal on AO3: (See signal list for AIO)
Heating1.Cor_Ao4	X,4	79		Connected signal on AO4: (See signal list for AO1)

Heating1.Cor_Ao5	X,4	80		Connected signal on AO5: (See signal list for AO1)
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4.5. Digital outputs

Signal name	Type	Modbus address	Default value	Description
QDig.Dq1	L,2	31		Value of DO1
QDig.Dq2	L,2	32		Value of DO2
QDig.Dq3	L,2	33		Value of DO3
QDig.Dq4	L,2	34		Value of DO4
QDig.Dq5	L,2	35		Value of DO5
QDig.Dq6	L,2	36		Value of DO6
QDig.Dq7	L,2	37		Value of DO7
Heating1.Cor_Do1(0)	X,4	81		Connected signal on DO1: 0=Not used 1=HS1-PumpA 2=HS1-PumpB 3=HS2-PumpA 4=HS2-PumpB 5=HS3-PumpA 6=HS3-PumpB 7=HW1-Pump 8=HP1-Pump 9=Frequencer 10=Start1 Boiler 11=Start2 Boiler 12=Sum alarm 13=A-sum alarm 14=B-sum alarm 15=Timer1 16=Timer2 17=Timer3 18=Timer4 19=Timer5 20=Inc HS1-Act. 21=Dec HS1-Act. 22=Inc HS2-Act. 23=Dec HS2-Act. 24=Inc HS3-Act. 25=Dec HS3-Act. 26=Inc HW1-Act. 27=Dec HW1-Act. 28=Inc HW2-Act. 29=Dec HW2-Act.
Heating1.Cor_Do2	X,4	82		Connected signal on DO2: (See signal list for DO1)
Heating1.Cor_Do3	X,4	83		Connected signal on DO3: (See signal list for DO1)

Heating1.Cor_Do4	X,4	84		Connected signal on DO4: (See signal list for DO1)
Heating1.Cor_Do5	X,4	85		Connected signal on DO5: (See signal list for DO1)
Heating1.Cor_Do6	X,4	86		Connected signal on DO6: (See signal list for DO1)
Heating1.Cor_Do7	X,4	87		Connected signal on DO7: (See signal list for DO1)

5. Time Settings

5.1. HS1 Night Setback and Comfort Time

Signal name	Type	Modbus address	Default value	Description
Heating1.Cor_HS1NightSetbackOn	L,1L,1	1	0	Night setback HS1 0=off, 1=on
Heating1.Cor_HS1NightSetback	R,3	70	5°C	Number of room-degrees night setback HS1
TimeDp.Posts(0).T1	R,3	71	7	Start time per 1 Monday comfort time HS1 (HH.MM)
TimeDp.Posts(0).T2	R,3	72	16	Stop time per 1 Monday comfort time HS1
TimeDp.Posts(0).T3	R,3	73	0	Start time per 2 Monday comfort time HS1
TimeDp.Posts(0).T4	R,3	74	0	Stop time per 2 Monday comfort time HS1
TimeDp.Posts(1).T1	R,3	75	7	Start time per 1 Tuesday comfort time HS1
TimeDp.Posts(1).T2	R,3	76	16	Stop time per 1 Tuesday comfort time HS1
TimeDp.Posts(1).T3	R,3	77	0	Start time per 2 Tuesday comfort time HS1
TimeDp.Posts(1).T4	R,3	78	0	Stop time per 2 Tuesday comfort time HS1
TimeDp.Posts(2).T1	R,3	79	7	Start time per 1 Wedn. comfort time HS1
TimeDp.Posts(2).T2	R,3	80	16	Stop time per 1 Wedn. comfort time HS1
TimeDp.Posts(2).T3	R,3	81	0	Start time per 2 Wedn. comfort time HS1
TimeDp.Posts(2).T4	R,3	82	0	Stop time per 2 Wedn. comfort time HS1
TimeDp.Posts(3).T1	R,3	83	7	Start time per 1 Thursday comfort time HS1
TimeDp.Posts(3).T2	R,3	84	16	Stop time per 1 Thursday comfort time HS1
TimeDp.Posts(3).T3	R,3	85	0	Start time per 2 Thursday comfort time HS1
TimeDp.Posts(3).T4	R,3	86	0	Stop time per 2 Thursday comfort time HS1
TimeDp.Posts(4).T1	R,3	87	7	Start time per 1 Friday comfort time HS1
TimeDp.Posts(4).T2	R,3	88	16	Stop time per 1 Friday comfort time HS1
TimeDp.Posts(4).T3	R,3	89	0	Start time per 2 Friday comfort time HS1
TimeDp.Posts(4).T4	R,3	90	0	Stop time per 2 Friday comfort time HS1
TimeDp.Posts(5).T1	R,3	91	0	Start time per 1 Saturday comfort time HS1
TimeDp.Posts(5).T2	R,3	92	0	Stop time per 1 Saturday comfort time HS1
TimeDp.Posts(5).T3	R,3	93	0	Start time per 2 Saturday comfort time HS1
TimeDp.Posts(5).T4	R,3	94	0	Stop time per 2 Saturday comfort time HS1

TimeDp.Posts(6).T1	R,3	95	0	Start time per 1 Sunday comfort time HS1
TimeDp.Posts(6).T2	R,3	96	0	Stop time per 1 Sunday comfort time HS1
TimeDp.Posts(6).T3	R,3	97	0	Start time per 2 Sunday comfort time HS1
TimeDp.Posts(6).T4	R,3	98	0	Stop time per 2 Sunday comfort time HS1
TimeDp.Posts(7).T1	R,3	99	0	Start time per 1 Holiday comfort time HS1
TimeDp.Posts(7).T2	R,3	100	0	Stop time per 1 Holiday comfort time HS1
TimeDp.Posts(7).T3	R,3	101	0	Start time per 2 Holiday comfort time HS1
TimeDp.Posts(7).T4	R,3	102	0	Stop time per 2 Holiday comfort time HS1

5.2. HS2 Night Setback and Comfort Time

Signal name	Type	Modbus address	Default value	Description
Heating1.Cor_HS2NightSetbackOn	L,1	2	0	Night setback HS2 0=off, 1=on
Heating1.Cor_HS2NightSetback	R,3	103	5°C	Number of room-degrees night setback HS2
TimeDp.Posts(8).T1	R,3	104	7	Start time per 1 Monday comfort time HS2 (HH.MM)
TimeDp.Posts(8).T2	R,3	105	16	Stop time per 1 Monday comfort time HS2
TimeDp.Posts(8).T3	R,3	106	0	Start time per 2 Monday comfort time HS2
TimeDp.Posts(8).T4	R,3	107	0	Stop time per 2 Monday comfort time HS2
TimeDp.Posts(9).T1	R,3	108	7	Start time per 1 Tuesday comfort time HS2
TimeDp.Posts(9).T2	R,3	109	16	Stop time per 1 Tuesday comfort time HS2
TimeDp.Posts(9).T3	R,3	110	0	Start time per 2 Tuesday comfort time HS2
TimeDp.Posts(9).T4	R,3	111	0	Stop time per 2 Tuesday comfort time HS2
TimeDp.Posts(10).T1	R,3	112	7	Start time per 1 Wedn. comfort time HS2
TimeDp.Posts(10).T2	R,3	113	16	Stop time per 1 Wedn. comfort time HS2
TimeDp.Posts(10).T3	R,3	114	0	Start time per 2 Wedn. comfort time HS2
TimeDp.Posts(10).T4	R,3	115	0	Stop time per 2 Wedn. comfort time HS2
TimeDp.Posts(11).T1	R,3	116	7	Start time per 1 Thursday comfort time HS2
TimeDp.Posts(11).T2	R,3	117	16	Stop time per 1 Thursday comfort time HS2
TimeDp.Posts(11).T3	R,3	118	0	Start time per 2 Thursday comfort time HS2
TimeDp.Posts(11).T4	R,3	119	0	Stop time per 2 Thursday comfort time HS2
TimeDp.Posts(12).T1	R,3	120	7	Start time per 1 Friday comfort time HS2
TimeDp.Posts(12).T2	R,3	121	16	Stop time per 1 Friday comfort time HS2
TimeDp.Posts(12).T3	R,3	122	0	Start time per 2 Friday comfort time HS2
TimeDp.Posts(12).T4	R,3	123	0	Stop time per 2 Friday comfort time HS2
TimeDp.Posts(13).T1	R,3	124	0	Start time per 1 Saturday comfort time HS2
TimeDp.Posts(13).T2	R,3	125	0	Stop time per 1 Saturday comfort time HS2
TimeDp.Posts(13).T3	R,3	126	0	Start time per 2 Saturday comfort time HS2
TimeDp.Posts(13).T4	R,3	127	0	Stop time per 2 Saturday comfort time HS2

TimeDp.Posts(14).T1	R,3	128	0	Start time per 1 Sunday comfort time HS2
TimeDp.Posts(14).T2	R,3	129	0	Stop time per 1 Sunday comfort time HS2
TimeDp.Posts(14).T3	R,3	130	0	Start time per 2 Sunday comfort time HS2
TimeDp.Posts(14).T4	R,3	131	0	Stop time per 2 Sunday comfort time HS2
TimeDp.Posts(15).T1	R,3	132	0	Start time per 1 Holiday comfort time HS2
TimeDp.Posts(15).T2	R,3	133	0	Stop time per 1 Holiday comfort time HS2
TimeDp.Posts(15).T3	R,3	134	0	Start time per 2 Holiday comfort time HS2
TimeDp.Posts(15).T4	R,3	135	0	Stop time per 2 Holiday comfort time HS2

5.3. HS3 Night Setback and Comfort Time

Signal name	Type	Modbus address	Default value	Description
Heating1.Cor_HS3NightSetbackOn	L,1	3	0	Night setback HS3 0=off, 1=on
Heating1.Cor_HS3NightSetback	R,3	136	5°C	Number of room-degrees night setback HS3
TimeDp.Posts(16).T1	R,3	137	7	Start time per 1 Monday comfort time HS3 (HH.MM)
TimeDp.Posts(16).T2	R,3	138	16	Stop time per 1 Monday comfort time HS3
TimeDp.Posts(16).T3	R,3	139	0	Start time per 2 Monday comfort time HS3
TimeDp.Posts(16).T4	R,3	140	0	Stop time per 2 Monday comfort time HS3
TimeDp.Posts(17).T1	R,3	141	7	Start time per 1 Tuesday comfort time HS3
TimeDp.Posts(17).T2	R,3	142	16	Stop time per 1 Tuesday comfort time HS3
TimeDp.Posts(17).T3	R,3	143	0	Start time per 2 Tuesday comfort time HS3
TimeDp.Posts(17).T4	R,3	144	0	Stop time per 2 Tuesday comfort time HS3
TimeDp.Posts(18).T1	R,3	145	7	Start time per 1 Wedn. comfort time HS3
TimeDp.Posts(18).T2	R,3	146	16	Stop time per 1 Wedn. comfort time HS3
TimeDp.Posts(18).T3	R,3	147	0	Start time per 2 Wedn. comfort time HS3
TimeDp.Posts(18).T4	R,3	148	0	Stop time per 2 Wedn. comfort time HS3
TimeDp.Posts(19).T1	R,3	149	7	Start time per 1 Thursday comfort time HS3
TimeDp.Posts(19).T2	R,3	150	16	Stop time per 1 Thursday comfort time HS3
TimeDp.Posts(19).T3	R,3	151	0	Start time per 2 Thursday comfort time HS3
TimeDp.Posts(19).T4	R,3	152	0	Stop time per 2 Thursday comfort time HS3
TimeDp.Posts(20).T1	R,3	153	7	Start time per 1 Friday comfort time HS3
TimeDp.Posts(20).T2	R,3	154	16	Stop time per 1 Friday comfort time HS3
TimeDp.Posts(20).T3	R,3	155	0	Start time per 2 Friday comfort time HS3
TimeDp.Posts(20).T4	R,3	156	0	Stop time per 2 Friday comfort time HS3
TimeDp.Posts(21).T1	R,3	157	0	Start time per 1 Saturday comfort time HS3
TimeDp.Posts(21).T2	R,3	158	0	Stop time per 1 Saturday comfort time HS3
TimeDp.Posts(21).T3	R,3	159	0	Start time per 2 Saturday comfort time HS3
TimeDp.Posts(21).T4	R,3	160	0	Stop time per 2 Saturday comfort time HS3

TimeDp.Posts(22).T1	R,3	161	0	Start time per 1 Sunday comfort time HS3
TimeDp.Posts(22).T2	R,3	162	0	Stop time per 1 Sunday comfort time HS3
TimeDp.Posts(22).T3	R,3	163	0	Start time per 2 Sunday comfort time HS3
TimeDp.Posts(22).T4	R,3	164	0	Stop time per 2 Sunday comfort time HS3
TimeDp.Posts(23).T1	R,3	165	0	Start time per 1 Holiday comfort time HS3
TimeDp.Posts(23).T2	R,3	166	0	Stop time per 1 Holiday comfort time HS3
TimeDp.Posts(23).T3	R,3	167	0	Start time per 2 Holiday comfort time HS3
TimeDp.Posts(23).T4	R,3	168	0	Stop time per 2 Holiday comfort time HS3

5.4. HWC1 Night Setback and Comfort Time

Signal name	Type	Modbus address	Default value	Description
Heating1.Cor_HW1NightSetbackOn	L,1	4	0	Night setback HW1 0=off, 1=on
Heating1.Cor_HW1NightSetback	R,3	169	5°C	Number of degrees night setback HW1
Heating1.Cor_HW1PumpStop	L,1	5	0	Activate pump stop HW1 when night setback on 0=Pump stop off, 1=pump stop on
TimeDp.Posts(24).T1	R,3	170	7	Start time per 1 Monday comfort time HS3 (HH.MM)
TimeDp.Posts(24).T2	R,3	171	16	Stop time per 1 Monday comfort time HW1
TimeDp.Posts(24).T3	R,3	172	0	Start time per 2 Monday comfort time HW1
TimeDp.Posts(24).T4	R,3	173	0	Stop time per 2 Monday comfort time HW1
TimeDp.Posts(25).T1	R,3	174	7	Start time per 1 Tuesday comfort time HW1
TimeDp.Posts(25).T2	R,3	175	16	Stop time per 1 Tuesday comfort time HW1
TimeDp.Posts(25).T3	R,3	176	0	Start time per 2 Tuesday comfort time HW1
TimeDp.Posts(25).T4	R,3	177	0	Stop time per 2 Tuesday comfort time HW1
TimeDp.Posts(26).T1	R,3	178	7	Start time per 1 Wedn. comfort time HW1
TimeDp.Posts(26).T2	R,3	179	16	Stop time per 1 Wedn. comfort time HW1
TimeDp.Posts(26).T3	R,3	180	0	Start time per 2 Wedn. comfort time HW1
TimeDp.Posts(26).T4	R,3	181	0	Stop time per 2 Wedn. comfort time HW1
TimeDp.Posts(27).T1	R,3	182	7	Start time per 1 Thursd. comfort time HW1
TimeDp.Posts(27).T2	R,3	183	16	Stop time per 1 Thursd. comfort time HW1
TimeDp.Posts(27).T3	R,3	184	0	Start time per 2 Thursd. comfort time HW1
TimeDp.Posts(27).T4	R,3	185	0	Stop time per 2 Thursd. comfort time HW1
TimeDp.Posts(28).T1	R,3	186	7	Start time per 1 Friday comfort time HW1
TimeDp.Posts(28).T2	R,3	187	16	Stop time per 1 Friday comfort time HW1
TimeDp.Posts(28).T3	R,3	188	0	Start time per 2 Friday comfort time HW1
TimeDp.Posts(28).T4	R,3	189	0	Stop time per 2 Friday comfort time HW1
TimeDp.Posts(29).T1	R,3	190	0	Start time per 1 Saturd. comfort time HW1
TimeDp.Posts(29).T2	R,3	191	0	Stop time per 1 Saturd. comfort time HW1
TimeDp.Posts(29).T3	R,3	192	0	Start time per 2 Saturd. comfort time HW1

TimeDp.Posts(29).T4	R,3	193	0	Stop time per 2 Saturd. comfort time HW1
TimeDp.Posts(30).T1	R,3	194	0	Start time per 1 Sunday comfort time HW1
TimeDp.Posts(30).T2	R,3	195	0	Stop time per 1 Sunday comfort time HW1
TimeDp.Posts(30).T3	R,3	196	0	Start time per 2 Sunday comfort time HW1
TimeDp.Posts(30).T4	R,3	197	0	Stop time per 2 Sunday comfort time HW1
TimeDp.Posts(31).T1	R,3	198	0	Start time per 1 Holiday comfort time HW1
TimeDp.Posts(31).T2	R,3	199	0	Stop time per 1 Holiday comfort time HW1
TimeDp.Posts(31).T3	R,3	200	0	Start time per 2 Holiday comfort time HW1
TimeDp.Posts(31).T4	R,3	201	0	Stop time per 2 Holiday comfort time HW1

5.5. HWC2 Night Setback and Comfort Time

Signal name	Type	Modbus address	Default value	Description
Heating1.Cor_HW2NightSetbackOn	L,1	6	0	Night setback HW2 0=off, 1=on
Heating1.Cor_HW2NightSetback	R,3	202	5°C	Number of degrees night setback HW2
TimeDp.Posts(32).T1	R,3	203	7	Start time per 1 Monday comfort time HS3 (HH.MM)
TimeDp.Posts(32).T2	R,3	204	16	Stop time per 1 Monday comfort time HW2
TimeDp.Posts(32).T3	R,3	205	0	Start time per 2 Monday comfort time HW2
TimeDp.Posts(32).T4	R,3	206	0	Stop time per 2 Monday comfort time HW2
TimeDp.Posts(33).T1	R,3	207	7	Start time per 1 Tuesday comfort time HW2
TimeDp.Posts(33).T2	R,3	208	16	Stop time per 1 Tuesday comfort time HW2
TimeDp.Posts(33).T3	R,3	209	0	Start time per 2 Tuesday comfort time HW2
TimeDp.Posts(33).T4	R,3	210	0	Stop time per 2 Tuesday comfort time HW2
TimeDp.Posts(34).T1	R,3	211	7	Start time per 1 Wedn. comfort time HW2
TimeDp.Posts(34).T2	R,3	212	16	Stop time per 1 Wedn. comfort time HW2
TimeDp.Posts(34).T3	R,3	213	0	Start time per 2 Wedn. comfort time HW2
TimeDp.Posts(34).T4	R,3	214	0	Stop time per 2 Wedn. comfort time HW2
TimeDp.Posts(35).T1	R,3	215	7	Start time per 1 Thursd. comfort time HW2
TimeDp.Posts(35).T2	R,3	216	16	Stop time per 1 Thursd. comfort time HW2
TimeDp.Posts(35).T3	R,3	217	0	Start time per 2 Thursd. comfort time HW2
TimeDp.Posts(35).T4	R,3	218	0	Stop time per 2 Thursd. comfort time HW2
TimeDp.Posts(36).T1	R,3	219	7	Start time per 1 Friday comfort time HW2
TimeDp.Posts(36).T2	R,3	220	16	Stop time per 1 Friday comfort time HW2
TimeDp.Posts(36).T3	R,3	221	0	Start time per 2 Friday comfort time HW2
TimeDp.Posts(36).T4	R,3	222	0	Stop time per 2 Friday comfort time HW2
TimeDp.Posts(37).T1	R,3	223	0	Start time per 1 Saturd. comfort time HW2
TimeDp.Posts(37).T2	R,3	224	0	Stop time per 1 Saturd. comfort time HW2
TimeDp.Posts(37).T3	R,3	225	0	Start time per 2 Saturd. comfort time HW2
TimeDp.Posts(37).T4	R,3	226	0	Stop time per 2 Saturd. comfort time HW2

TimeDp.Posts(38).T1	R,3	227	0	Start time per 1 Sunday comfort time HW2
TimeDp.Posts(38).T2	R,3	228	0	Stop time per 1 Sunday comfort time HW2
TimeDp.Posts(38).T3	R,3	229	0	Start time per 2 Sunday comfort time HW2
TimeDp.Posts(38).T4	R,3	230	0	Stop time per 2 Sunday comfort time HW2
TimeDp.Posts(39).T1	R,3	231	0	Start time per 1 Holiday comfort time HW2
TimeDp.Posts(39).T2	R,3	232	0	Stop time per 1 Holiday comfort time HW2
TimeDp.Posts(39).T3	R,3	233	0	Start time per 2 Holiday comfort time HW2
TimeDp.Posts(39).T4	R,3	234	0	Stop time per 2 Holiday comfort time HW2

5.6. Timer output 1

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(40).T1	R,3	235	7	Start time period 1 Monday timer output 1 (HH.MM)
TimeDp.Posts(40).T2	R,3	236	16	Stop time period 1 Monday timer output 1
TimeDp.Posts(40).T3	R,3	237	0	Start time period 2 Monday timer output 1
TimeDp.Posts(40).T4	R,3	238	0	Stop time period 2 Monday timer output 1
TimeDp.Posts(41).T1	R,3	239	7	Start time period 1 Tuesday timer output 1
TimeDp.Posts(41).T2	R,3	240	16	Stop time period 1 Tuesday timer output 1
TimeDp.Posts(41).T3	R,3	241	0	Start time period 2 Tuesday timer output 1
TimeDp.Posts(41).T4	R,3	242	0	Stop time period 2 Tuesday timer output 1
TimeDp.Posts(42).T1	R,3	243	7	Start time period 1 Wednesd.timer output 1
TimeDp.Posts(42).T2	R,3	244	16	Stop time period 1 Wedn. timer output 1
TimeDp.Posts(42).T3	R,3	245	0	Start time period 2 Wedn. timer output 1
TimeDp.Posts(42).T4	R,3	246	0	Stop time period 2 Wedn. timer output 1
TimeDp.Posts(43).T1	R,3	247	7	Start time period 1 Thursday timer output 1
TimeDp.Posts(43).T2	R,3	248	16	Stop time period 1 Thursday timer output 1
TimeDp.Posts(43).T3	R,3	249	0	Start time period 2 Thursday timer output 1
TimeDp.Posts(43).T4	R,3	250	0	Stop time period 2 Thursday timer output 1
TimeDp.Posts(44).T1	R,3	251	7	Start time period 1 Friday timer output 1
TimeDp.Posts(44).T2	R,3	252	16	Stop time period 1 Friday timer output 1
TimeDp.Posts(44).T3	R,3	253	0	Start time period 2 Friday timer output 1
TimeDp.Posts(44).T4	R,3	254	0	Stop time period 2 Friday timer output 1
TimeDp.Posts(45).T1	R,3	255	0	Start time period 1 Saturday timer output 1
TimeDp.Posts(45).T2	R,3	256	0	Stop time period 1 Saturday timer output 1
TimeDp.Posts(45).T3	R,3	257	0	Start time period 2 Saturday timer output 1
TimeDp.Posts(45).T4	R,3	258	0	Stop time period 2 Saturday timer output 1
TimeDp.Posts(46).T1	R,3	259	0	Start time period 1 Sunday timer output 1
TimeDp.Posts(46).T2	R,3	260	0	Stop time period 1 Sunday timer output 1
TimeDp.Posts(46).T3	R,3	261	0	Start time period 2 Sunday timer output 1

TimeDp.Posts(46).T4	R,3	262	0	Stop time period 2 Sunday timer output 1
TimeDp.Posts(47).T1	R,3	263	0	Start time period 1 Holiday timer output 1
TimeDp.Posts(47).T2	R,3	264	0	Stop time period 1 Holiday timer output 1
TimeDp.Posts(47).T3	R,3	265	0	Start time period 2 Holiday timer output 1
TimeDp.Posts(47).T4	R,3	266	0	Stop time period 2 Holiday timer output 1

5.7. Timer output 2

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(48).T1	R,3	267	7	Start time period 1 Monday timer output 2 (HH.MM)
TimeDp.Posts(48).T2	R,3	268	16	Stop time period 1 Monday timer output 2
TimeDp.Posts(48).T3	R,3	269	0	Start time period 2 Monday timer output 2
TimeDp.Posts(48).T4	R,3	270	0	Stop time period 2 Monday timer output 2
TimeDp.Posts(49).T1	R,3	271	7	Start time period 1 Tuesday timer output 2
TimeDp.Posts(49).T2	R,3	272	16	Stop time period 1 Tuesday timer output 2
TimeDp.Posts(49).T3	R,3	273	0	Start time period 2 Tuesday timer output 2
TimeDp.Posts(49).T4	R,3	274	0	Stop time period 2 Tuesday timer output 2
TimeDp.Posts(50).T1	R,3	275	7	Start time period 1 Wedn. timer output 2
TimeDp.Posts(50).T2	R,3	276	16	Stop time period 1 Wedn. timer output 2
TimeDp.Posts(50).T3	R,3	277	0	Start time period 2 Wedn. timer output 2
TimeDp.Posts(50).T4	R,3	278	0	Stop time period 2 Wedn. timer output 2
TimeDp.Posts(51).T1	R,3	279	7	Start time period 1 Thursday timer output 2
TimeDp.Posts(51).T2	R,3	280	16	Stop time period 1 Thursday timer output 2
TimeDp.Posts(51).T3	R,3	281	0	Start time period 2 Thursday timer output 2
TimeDp.Posts(51).T4	R,3	282	0	Stop time period 2 Thursday timer output 2
TimeDp.Posts(52).T1	R,3	283	7	Start time period 1 Friday timer output 2
TimeDp.Posts(52).T2	R,3	284	16	Stop time period 1 Friday timer output 2
TimeDp.Posts(52).T3	R,3	285	0	Start time period 2 Friday timer output 2
TimeDp.Posts(52).T4	R,3	286	0	Stop time period 2 Friday timer output 2
TimeDp.Posts(53).T1	R,3	287	0	Start time period 1 Saturday timer output 2
TimeDp.Posts(53).T2	R,3	288	0	Stop time period 1 Saturday timer output 2
TimeDp.Posts(53).T3	R,3	289	0	Start time period 2 Saturday timer output 2
TimeDp.Posts(53).T4	R,3	290	0	Stop time period 2 Saturday timer output 2
TimeDp.Posts(54).T1	R,3	291	0	Start time period 1 Sunday timer output 2
TimeDp.Posts(54).T2	R,3	292	0	Stop time period 1 Sunday timer output 2
TimeDp.Posts(54).T3	R,3	293	0	Start time period 2 Sunday timer output 2
TimeDp.Posts(54).T4	R,3	294	0	Stop time period 2 Sunday timer output 2
TimeDp.Posts(55).T1	R,3	295	0	Start time period 1 Holiday timer output 2
TimeDp.Posts(55).T2	R,3	296	0	Stop time period 1 Holiday timer output 2

TimeDp.Posts(55).T3	R,3	297	0	Start time period 2 Holiday timer output 2
TimeDp.Posts(55).T4	R,3	298	0	Stop time period 2 Holiday timer output 2

5.8. Timer output 3

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(56).T1	R,3	299	7	Start time period 1 Monday timer output 3 (HH.MM)
TimeDp.Posts(56).T2	R,3	300	16	Stop time period 1 Monday timer output 3
TimeDp.Posts(56).T3	R,3	301	0	Start time period 2 Monday timer output 3
TimeDp.Posts(56).T4	R,3	302	0	Stop time period 2 Monday timer output 3
TimeDp.Posts(57).T1	R,3	303	7	Start time period 1 Tuesday timer output 3
TimeDp.Posts(57).T2	R,3	304	16	Stop time period 1 Tuesday timer output 3
TimeDp.Posts(57).T3	R,3	305	0	Start time period 2 Tuesday timer output 3
TimeDp.Posts(57).T4	R,3	306	0	Stop time period 2 Tuesday timer output 3
TimeDp.Posts(58).T1	R,3	307	7	Start time period 1 Wedn. timer output 3
TimeDp.Posts(58).T2	R,3	308	16	Stop time period 1 Wedn. timer output 3
TimeDp.Posts(58).T3	R,3	309	0	Start time period 2 Wedn. timer output 3
TimeDp.Posts(58).T4	R,3	310	0	Stop time period 2 Wedn. timer output 3
TimeDp.Posts(59).T1	R,3	311	7	Start time period 1 Thursday timer output 3
TimeDp.Posts(59).T2	R,3	312	16	Stop time period 1 Thursday timer output 3
TimeDp.Posts(59).T3	R,3	313	0	Start time period 2 Thursday timer output 3
TimeDp.Posts(59).T4	R,3	314	0	Stop time period 2 Thursday timer output 3
TimeDp.Posts(60).T1	R,3	315	7	Start time period 1 Friday timer output 3
TimeDp.Posts(60).T2	R,3	316	16	Stop time period 1 Friday timer output 3
TimeDp.Posts(60).T3	R,3	317	0	Start time period 2 Friday timer output 3
TimeDp.Posts(60).T4	R,3	318	0	Stop time period 2 Friday timer output 3
TimeDp.Posts(61).T1	R,3	319	0	Start time period 1 Saturday timer output 3
TimeDp.Posts(61).T2	R,3	320	0	Stop time period 1 Saturday timer output 3
TimeDp.Posts(61).T3	R,3	321	0	Start time period 2 Saturday timer output 3
TimeDp.Posts(61).T4	R,3	322	0	Stop time period 2 Saturday timer output 3
TimeDp.Posts(62).T1	R,3	323	0	Start time period 1 Sunday timer output 3
TimeDp.Posts(62).T2	R,3	324	0	Stop time period 1 Sunday timer output 3
TimeDp.Posts(62).T3	R,3	325	0	Start time period 2 Sunday timer output 3
TimeDp.Posts(62).T4	R,3	326	0	Stop time period 2 Sunday timer output 3
TimeDp.Posts(63).T1	R,3	327	0	Start time period 1 Holiday timer output 3
TimeDp.Posts(63).T2	R,3	328	0	Stop time period 1 Holiday timer output 3
TimeDp.Posts(63).T3	R,3	329	0	Start time period 2 Holiday timer output 3
TimeDp.Posts(63).T4	R,3	330	0	Stop time period 2 Holiday timer output 3

5.9. Timer output 4

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(64).T1	R,3	331	7	Start time period 1 Monday timer output 4 (HH.MM)
TimeDp.Posts(64).T2	R,3	332	16	Stop time period 1 Monday timer output 4
TimeDp.Posts(64).T3	R,3	333	0	Start time period 2 Monday timer output 4
TimeDp.Posts(64).T4	R,3	334	0	Stop time period 2 Monday timer output 4
TimeDp.Posts(65).T1	R,3	335	7	Start time period 1 Tuesday timer output 4
TimeDp.Posts(65).T2	R,3	336	16	Stop time period 1 Tuesday timer output 4
TimeDp.Posts(65).T3	R,3	337	0	Start time period 2 Tuesday timer output 4
TimeDp.Posts(65).T4	R,3	338	0	Stop time period 2 Tuesday timer output 4
TimeDp.Posts(66).T1	R,3	339	7	Start time period 1 Wedn. timer output 4
TimeDp.Posts(66).T2	R,3	340	16	Stop time period 1 Wedn. timer output 4
TimeDp.Posts(66).T3	R,3	341	0	Start time period 2 Wedn. timer output 4
TimeDp.Posts(66).T4	R,3	342	0	Stop time period 2 Wedn. timer output 4
TimeDp.Posts(67).T1	R,3	343	7	Start time period 1 Thursday timer output 4
TimeDp.Posts(67).T2	R,3	344	16	Stop time period 1 Thursday timer output 4
TimeDp.Posts(67).T3	R,3	345	0	Start time period 2 Thursday timer output 4
TimeDp.Posts(67).T4	R,3	346	0	Stop time period 2 Thursday timer output 4
TimeDp.Posts(68).T1	R,3	347	7	Start time period 1 Friday timer output 4
TimeDp.Posts(68).T2	R,3	348	16	Stop time period 1 Friday timer output 4
TimeDp.Posts(68).T3	R,3	349	0	Start time period 2 Friday timer output 4
TimeDp.Posts(68).T4	R,3	350	0	Stop time period 2 Friday timer output 4
TimeDp.Posts(69).T1	R,3	351	0	Start time period 1 Saturday timer output 4
TimeDp.Posts(69).T2	R,3	352	0	Stop time period 1 Saturday timer output 4
TimeDp.Posts(69).T3	R,3	353	0	Start time period 2 Saturday timer output 4
TimeDp.Posts(69).T4	R,3	354	0	Stop time period 2 Saturday timer output 4
TimeDp.Posts(70).T1	R,3	355	0	Start time period 1 Sunday timer output 4
TimeDp.Posts(70).T2	R,3	356	0	Stop time period 1 Sunday timer output 4
TimeDp.Posts(70).T3	R,3	357	0	Start time period 2 Sunday timer output 4
TimeDp.Posts(70).T4	R,3	358	0	Stop time period 2 Sunday timer output 4
TimeDp.Posts(71).T1	R,3	359	0	Start time period 1 Holiday timer output 4
TimeDp.Posts(71).T2	R,3	360	0	Stop time period 1 Holiday timer output 4
TimeDp.Posts(71).T3	R,3	361	0	Start time period 2 Holiday timer output 4
TimeDp.Posts(71).T4	R,3	362	0	Stop time period 2 Holiday timer output 4

5.10. Timer output 5

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(72).T1	R,3	363	7	Start time period 1 Monday timer output 5 (HH.MM)
TimeDp.Posts(72).T2	R,3	364	16	Stop time period 1 Monday timer output 5
TimeDp.Posts(72).T3	R,3	365	0	Start time period 2 Monday timer output 5
TimeDp.Posts(72).T4	R,3	366	0	Stop time period 2 Monday timer output 5
TimeDp.Posts(73).T1	R,3	367	7	Start time period 1 Tuesday timer output 5
TimeDp.Posts(73).T2	R,3	368	16	Stop time period 1 Tuesday timer output 5
TimeDp.Posts(73).T3	R,3	369	0	Start time period 2 Tuesday timer output 5
TimeDp.Posts(73).T4	R,3	370	0	Stop time period 2 Tuesday timer output 5
TimeDp.Posts(74).T1	R,3	371	7	Start time period 1 Wedn. timer output 5
TimeDp.Posts(74).T2	R,3	372	16	Stop time period 1 Wedn. timer output 5
TimeDp.Posts(74).T3	R,3	373	0	Start time period 2 Wedn. timer output 5
TimeDp.Posts(74).T4	R,3	374	0	Stop time period 2 Wedn. timer output 5
TimeDp.Posts(75).T1	R,3	375	7	Start time period 1 Thursday timer output 5
TimeDp.Posts(75).T2	R,3	376	16	Stop time period 1 Thursday timer output 5
TimeDp.Posts(75).T3	R,3	377	0	Start time period 2 Thursday timer output 5
TimeDp.Posts(75).T4	R,3	378	0	Stop time period 2 Thursday timer output 5
TimeDp.Posts(76).T1	R,3	379	7	Start time period 1 Friday timer output 5
TimeDp.Posts(76).T2	R,3	380	16	Stop time period 1 Friday timer output 5
TimeDp.Posts(76).T3	R,3	381	0	Start time period 2 Friday timer output 5
TimeDp.Posts(76).T4	R,3	382	0	Stop time period 2 Friday timer output 5
TimeDp.Posts(77).T1	R,3	383	0	Start time period 1 Saturday timer output 5
TimeDp.Posts(77).T2	R,3	384	0	Stop time period 1 Saturday timer output 5
TimeDp.Posts(77).T3	R,3	385	0	Start time period 2 Saturday timer output 5
TimeDp.Posts(77).T4	R,3	386	0	Stop time period 2 Saturday timer output 5
TimeDp.Posts(78).T1	R,3	387	0	Start time period 1 Sunday timer output 5
TimeDp.Posts(78).T2	R,3	388	0	Stop time period 1 Sunday timer output 5
TimeDp.Posts(78).T3	R,3	389	0	Start time period 2 Sunday timer output 5
TimeDp.Posts(78).T4	R,3	390	0	Stop time period 2 Sunday timer output 5
TimeDp.Posts(79).T1	R,3	391	0	Start time period 1 Holiday timer output 5
TimeDp.Posts(79).T2	R,3	392	0	Stop time period 1 Holiday timer output 5
TimeDp.Posts(79).T3	R,3	393	0	Start time period 2 Holiday timer output 5
TimeDp.Posts(79).T4	R,3	394	0	Stop time period 2 Holiday timer output 5

5.11. Holidays

Signal name	Type	Modbus address	Default value	Description
TimeHp.Posts(0).FromDate	R,3	395	01.01	Start date holiday period 1 (MM.DD)
TimeHp.Posts(0).ToDate	R,3	396	01.01	End date holiday period 1 (MM.DD)
TimeHp.Posts(1).FromDate	R,3	397	01.01	Start date holiday period 2 (MM.DD)
TimeHp.Posts(1).ToDate	R,3	398	01.01	End date holiday period 2 (MM.DD)
TimeHp.Posts(2).FromDate	R,3	399	01.01	Start date holiday period 3 (MM.DD)
TimeHp.Posts(2).ToDate	R,3	400	01.01	End date holiday period 3 (MM.DD)
TimeHp.Posts(3).FromDate	R,3	401	01.01	Start date holiday period 4 (MM.DD)
TimeHp.Posts(3).ToDate	R,3	402	01.01	End date holiday period 4 (MM.DD)
TimeHp.Posts(4).FromDate	R,3	403	01.01	Start date holiday period 5 (MM.DD)
TimeHp.Posts(4).ToDate	R,3	404	01.01	End date holiday period 5 (MM.DD)
TimeHp.Posts(5).FromDate	R,3	405	01.01	Start date holiday period 6 (MM.DD)
TimeHp.Posts(5).ToDate	R,3	406	01.01	End date holiday period 6 (MM.DD)
TimeHp.Posts(6).FromDate	R,3	407	01.01	Start date holiday period 7 (MM.DD)
TimeHp.Posts(6).ToDate	R,3	408	01.01	End date holiday period 7 (MM.DD)
TimeHp.Posts(7).FromDate	R,3	409	01.01	Start date holiday period 8 (MM.DD)
TimeHp.Posts(7).ToDate	R,3	410	01.01	End date holiday period 8 (MM.DD)
TimeHp.Posts(8).FromDate	R,3	411	01.01	Start date holiday period 9 (MM.DD)
TimeHp.Posts(8).ToDate	R,3	412	01.01	End date holiday period 9 (MM.DD)
TimeHp.Posts(9).FromDate	R,3	413	01.01	Start date holiday period 10 (MM.DD)
TimeHp.Posts(9).ToDate	R,3	414	01.01	End date holiday period 10 (MM.DD)
TimeHp.Posts(10).FromDate	R,3	415	01.01	Start date holiday period 11 (MM.DD)
TimeHp.Posts(10).ToDate	R,3	416	01.01	End date holiday period 11 (MM.DD)
TimeHp.Posts(11).FromDate	R,3	417	01.01	Start date holiday period 12 (MM.DD)
TimeHp.Posts(11).ToDate	R,3	418	01.01	End date holiday period 12 (MM.DD)
TimeHp.Posts(12).FromDate	R,3	419	01.01	Start date holiday period 13 (MM.DD)
TimeHp.Posts(12).ToDate	R,3	420	01.01	End date holiday period 13 (MM.DD)
TimeHp.Posts(13).FromDate	R,3	421	01.01	Start date holiday period 14 (MM.DD)
TimeHp.Posts(13).ToDate	R,3	422	01.01	End date holiday period 14 (MM.DD)
TimeHp.Posts(14).FromDate	R,3	423	01.01	Start date holiday period 15 (MM.DD)
TimeHp.Posts(14).ToDate	R,3	424	01.01	End date holiday period 15 (MM.DD)
TimeHp.Posts(15).FromDate	R,3	425	01.01	Start date holiday period 16 (MM.DD)
TimeHp.Posts(15).ToDate	R,3	426	01.01	End date holiday period 16 (MM.DD)
TimeHp.Posts(16).FromDate	R,3	427	01.01	Start date holiday period 17 (MM.DD)
TimeHp.Posts(16).ToDate	R,3	428	01.01	End date holiday period 17 (MM.DD)
TimeHp.Posts(17).FromDate	R,3	429	01.01	Start date holiday period 18 (MM.DD)
TimeHp.Posts(17).ToDate	R,3	430	01.01	End date holiday period 18 (MM.DD)
TimeHp.Posts(18).FromDate	R,3	431	01.01	Start date holiday period 19 (MM.DD)

TimeHp.Posts(18).ToDate	R,3	432	01.01	End date holiday period 19 (MM.DD)
TimeHp.Posts(19).FromDate	R,3	433	01.01	Start date holiday period 20 (MM.DD)
TimeHp.Posts(19).ToDate	R,3	434	01.01	End date holiday period 20 (MM.DD)
TimeHp.Posts(20).FromDate	R,3	435	01.01	Start date holiday period 21 (MM.DD)
TimeHp.Posts(20).ToDate	R,3	436	01.01	End date holiday period 21 (MM.DD)
TimeHp.Posts(21).FromDate	R,3	437	01.01	Start date holiday period 22 (MM.DD)
TimeHp.Posts(21).ToDate	R,3	438	01.01	End date holiday period 22 (MM.DD)
TimeHp.Posts(22).FromDate	R,3	439	01.01	Start date holiday period 23 (MM.DD)
TimeHp.Posts(22).ToDate	R,3	440	01.01	End date holiday period 23 (MM.DD)
TimeHp.Posts(23).FromDate	R,3	441	01.01	Start date holiday period 24 (MM.DD)
TimeHp.Posts(23).ToDate	R,3	442	01.01	End date holiday period 24 (MM.DD)

5.12. Real Time Clock

Signal name	Type	Modbus address	Default value	Description
QSystem.Sec	X,3	527		Real time clock: Second 0-59
QSystem.Minute	X,3	528		Real time clock: Minute 0-59
QSystem.Hour	X,3	529		Real time clock: Hour 0-23
QSystem.WDay	X,3	530		Real time clock: Day of Week 1-7, 1=Monday
QSystem.Week	X,3	531		Real time clock: Week number 1-53
QSystem.Date	X,3	532		Real time clock: Day of month 1-31
QSystem.Month	X,3	533		Real time clock: Month 1-12
QSystem.Year	X,3	534		Real time clock: Year 0-99

6. Settings

6.1. Control temp

Signal name	Type	Modbus address	Default value	Description
Heating4.Cor_HS1PID_PGain	R,3	443	100 °C	P-band supply HS1 control
Heating4.Cor_HS1PID_ITime	R,3	444	100 sec	I-time supply HS1 control
Heating4.Cor_HS2PID_PGain	R,3	445	100 °C	P-band supply HS2 control
Heating4.Cor_HS2PID_ITime	R,3	446	100 sec	I-time supply HS2 control
Heating4.Cor_HS3PID_PGain	R,3	447	100 °C	P-band supply HS3 control
Heating4.Cor_HS3PID_ITime	R,3	448	100 sec	I-time supply HS3 control
Heating4.Cor_HW1PID_PGain	R,3	449	25 °C	P-band shutdown mode HWC1
Heating4.Cor_HW1PID_ITime	R,3	450	75 °C	I-time shutdown mode HWC1
Heating4.Cor_HW2PID_PGain	R,3	451	25 °C	P-band shutdown mode HWC2
Heating4.Cor_HW2PID_ITime	R,3	452	75 °C	I-time shutdown mode HWC2

6.2. Control pressure (DP)

Signal name	Type	Modbus address	Default value	Description
Heating4.Cor_DPPID_PGain	R,3	453	25 kPa	P-band pressure control DP
Heating4.Cor_DPPID_ITime	R,3	454	100 sec	I-time pressure control DP
Heating4.Cor_DPPID_MinOutput	R,3	455	0 kPa	Min. output pressure control DP

6.3. Alarm limits

Signal name	Type	Modbus address	Default value	Description
Heating1.Cor_HS1MaxDiff(0)	R,3	456	20 °C	Max control deviation supply temp HS1
Heating1.Cor_HS2MaxDiff	R,3	457	20 °C	Max control deviation supply temp HS2
Heating1.Cor_HS3MaxDiff	R,3	458	20 °C	Max control deviation supply temp HS3
Heating1.Cor_HW1MaxDiff	R,3	459	20 °C	Max control deviation supply temp HW1
Heating1.Cor_HW2MaxDiff	R,3	460	20 °C	Max control deviation supply temp HW2
Heating1.Cor_HW1HighTemp	R,3	461	65 °C	Scalding HWC1
Heating1.Cor_HW2HighTemp	R,3	462	65 °C	Scalding HWC2
Heating1.Cor_BoilerHighTemp	R,3	463	70 °C	High boiler temperature
Heating1.Cor_BoilerLowTemp	R,3	464	30 °C	Low boiler temperature
Heating1.Cor_WaterConsumptionMax	R,3	465	10000 lit.	High 24h water usage
Heating1.Cor_WaterLowestConsumptionYesterdayMax	R,3	466	10000 lit.	High 1h water usage
Heating1.Cor_EnergyConsumptionMax	R,3	467	10000kWh	High 24h energy usage
Heating1.Cor_WaterPulseTimeMax	R,3	468	0 min	Max time between volume pulse
Heating1.Cor_EnergyPulseTimeMax	R,3	469	0 min	Max time between energy pulse
Heating1.Cor_CW1PulseTimeMax	R,3	470	0 min	Max time between cold water puls 1
Heating1.Cor_CW2PulseTimeMax	R,3	471	0 min	Max time between cold water puls 2
Heating1.Cor_LeakHighLimit	R,3	472	3 kW	Permitted leakage

6.4. Alarm delays

Signal name	Type	Modbus address	Default value	Description
AlaData.AlaPt13_DelayValue	I,3I,3	473	60 min	Alarm delay control deviation supply temp HS1
AlaData.AlaPt14_DelayValue	I,3	474	60 min	Alarm delay control deviation supply temp HS2
AlaData.AlaPt15_DelayValue	I,3	475	60 min	Alarm delay control deviation supply temp HS3
AlaData.AlaPt16_DelayValue	I,3	476	60 min	Alarm delay control deviation supply temp HWC1
AlaData.AlaPt17_DelayValue	I,3	477	60 min	Alarm delay control deviation supply temp HWC2
AlaData.AlaPt19_DelayValue	I,3	478	300 sec	Alarm delay scalding HWC1
AlaData.AlaPt20_DelayValue	I,3	479	300 sec	Alarm delay scalding HWC2
AlaData.AlaPt21_DelayValue	I,3	480	0 sec	Alarm delay high boiler temp

AlaData.AlaPt22_DelayValue	I,3	481	0 sec	Alarm delay low boiler temp
AlaData.AlaPt10_DelayValue	I,3	482	60 sec	Alarm delay expansion vessel
AlaData.AlaPt11_DelayValue	I,3	483	0 sec	Alarm delay external alarm

7. Manual/Auto

7.1. Manual/Auto

Signal name	Type	Modbus address	Default value	Description
Heating4.Cor_HS1PID_Select	X,3	484	2	Manual/Auto HS1: 0=Manual-Off 1=Manual-On 2=Auto
Heating4.Cor_HS1PID_ManSet	R,3	485	0 %	HS1 Supply temp controller output if Manual-On mode
Heating4.Cor_HS2PID_Select	X,3	486	2	Manual/Auto HS2: 0=Manual-Off 1=Manual-On 2=Auto
Heating4.Cor_HS2PID_ManSet	R,3	487	0 %	HS2 Supply temp controller output if Manual-On mode
Heating4.Cor_HS3PID_Select	X,3	488	2	Manual/Auto HS3: 0=Manual-Off 1=Manual-On 2=Auto
Heating4.Cor_HS3PID_ManSet	R,3	489	0 %	HS3 Supply temp controller output if Manual-On mode
Heating4.Cor_HW1PID_Select	X,3	490	2	Manual/Auto HWC1: 0=Manual-Off 1=Manual-On 2=Auto
Heating4.Cor_HW1PID_ManSet	R,3	491	0 %	HWC1 Supply temp controller output if Manual-On mode
Heating4.Cor_HW2PID_Select	X,3	492	2	Manual/Auto HWC2: 0=Manual-Off 1=Manual-On 2=Auto
Heating4.Cor_HW2PID_ManSet	R,3	493	0 %	HWC2 Supply temp controller output if Manual-On mode
Heating4.Cor_DPPID_Select	X,3	494	2	Manual/Auto Pressure control: 0=Manual-Off 1=Manual-On 2=Auto

Heating4.Cor_DPPID_ManSet	R,3	495	0 %	Pressure controller output if Manual-On mode
Heating4.Cor_DPPID_MinOutput	R,3	496	0 %	Minimum pressure controller output
Heating1.Cor_HS1PumpAAutoMode(0)	X,3	497	2	Manual/Auto HS1 P1A: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HS1PumpBAutoMode	X,3	498	2	Manual/Auto HS1 P1B: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HS2PumpAAutoMode	X,3	499	2	Manual/Auto HS2 P1A: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HS2PumpBAutoMode	X,3	500	2	Manual/Auto HS2 P1B: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HS3PumpAAutoMode	X,3	501	2	Manual/Auto HS3 P1A: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HS3PumpBAutoMode	X,3	502	2	Manual/Auto HS3 P1B: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HW1PumpAutoMode	X,3	503	2	Manual/Auto HWC1: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_HP1PumpAutoMode	X,3	504	2	Manual/Auto HP1: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_FrequencerAutoMode	X,3	505	2	Manual/Auto Frequency converter: 0=Manual-Off 1=Manual-On 2=Auto
Heating1.Cor_BoilerAutoMode	X,3	506	4	Manual/Auto boiler: 0=Manual-Off 1=Start 1 2=Start 2 3=Start 1 and Start 2 4=Auto
TimePro.TimeGroupStatusHS1	X,3	508	4	Manual/Auto Comfort time HS1 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto

TimePro.TimeGroupStatusHS2	X,3	509	4	Manual/Auto Comfort time HS2 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro.TimeGroupStatusHS3	X,3	510	4	Manual/Auto Comfort time HS3 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro.TimeGroupStatusHW1	X,3	511	4	Manual/Auto Comfort time HW1 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro.TimeGroupStatusHW2	X,3	512	4	Manual/Auto Comfort time HW2 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGrou p1	X,3	513	4	Manual/Auto Timer output 1 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGrou p2	X,3	514	4	Manual/Auto Timer output 2 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGrou p3	X,3	515	4	Manual/Auto Timer output 3 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGrou p4	X,3	516	4	Manual/Auto Timer output 4 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGrou p5	X,3	517	4	Manual/Auto Timer output 5 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto

8. Alarm status

8.1. Alarm status

Signal name	Type	Modbus address	Default value	Description
AlaData.AlaPt1_Status	X,4	88		Malfunction P1A-HS1: 0=Not used 1=Normal 2=Blocked 3=Acknowledge 4=Not used 5=Cancelled 6=Not used 7=Alarm
AlaData.AlaPt2_Status	X,4	89		Malfunction P1B-HS1
AlaData.AlaPt3_Status	X,4	90		Malfunction P1A-HS2
AlaData.AlaPt4_Status	X,4	91		Malfunction P1B-HS2
AlaData.AlaPt5_Status	X,4	92		Malfunction P1A-HS3
AlaData.AlaPt6_Status	X,4	93		Malfunction P1B-HS3
AlaData.AlaPt7_Status	X,4	94		Malfunction P1-HWC1
AlaData.AlaPt8_Status	X,4	95		Malfunction P1-HP1
AlaData.AlaPt9_Status	X,4	96		Malfunction frequency converter
AlaData.AlaPt10_Status	X,4	97		Expansion vessel
AlaData.AlaPt11_Status	X,4	98		External alarm
AlaData.AlaPt12_Status	X,4	99		Boiler alarm
AlaData.AlaPt13_Status	X,4	100		Deviation HS1
AlaData.AlaPt14_Status	X,4	101		Deviation HS2
AlaData.AlaPt15_Status	X,4	102		Deviation HS3
AlaData.AlaPt16_Status	X,4	103		Deviation HWC1
AlaData.AlaPt17_Status	X,4	104		Deviation HWC2
AlaData.AlaPt18_Status	X,4	105		Sensor error outdoor temp
AlaData.AlaPt19_Status	X,4	106		High HWC1 temp

AlaData.AlaPt20_Status	X,4	107		High HWC2 temp
AlaData.AlaPt21_Status	X,4	108		High Boiler temp
AlaData.AlaPt22_Status	X,4	109		Low Boiler temp
AlaData.AlaPt23_Status	X,4	110		Pulse error volume
AlaData.AlaPt24_Status	X,4	111		Pulse error energy
AlaData.AlaPt25_Status	X,4	112		High cold water usage/day
AlaData.AlaPt26_Status	X,4	113		High energy usage
AlaData.AlaPt27_Status	X,4	114		High cold water usage/hour
AlaData.AlaPt28_Status	X,4	115		High leakage
AlaData.AlaPt29_Status	X,4	116		Malfunction P1A&B-HS1
AlaData.AlaPt30_Status	X,4	117		Malfunction P1A&B-HS2
AlaData.AlaPt31_Status	X,4	118		Malfunction P1A&B-HS3
AlaData.AlaPt32_Status	X,4	119		Pulse error CW1
AlaData.AlaPt33_Status	X,4	120		Pulse error CW2
AlaData.AlaPt34_Status	X,4	121		HS1 manual
AlaData.AlaPt35_Status	X,4	122		HS2 manual
AlaData.AlaPt36_Status	X,4	123		HS3 manual
AlaData.AlaPt37_Status	X,4	124		HWC1 manual
AlaData.AlaPt38_Status	X,4	125		HWC2 manual
AlaData.AlaPt39_Status	X,4	126		Pressure manual
AlaData.AlaPt40_Status	X,4	127		Boiler manual
AlaData.AlaPt41_Status	X,4	128		P1A-HS1 manual
AlaData.AlaPt42_Status	X,4	129		P1B-HS1 manual
AlaData.AlaPt43_Status	X,4	130		P1A-HS2 manual
AlaData.AlaPt44_Status	X,4	131		P1B-HS2 manual
AlaData.AlaPt45_Status	X,4	132		P1A-HS3 manual
AlaData.AlaPt46_Status	X,4	133		P1B-HS3 manual
AlaData.AlaPt47_Status	X,4	134		P1-HWC1 manual
AlaData.AlaPt48_Status	X,4	135		P1-HP1 manual
AlaData.AlaPt49_Status	X,4	136		P1-Freq. manual
AlaData.AlaPt50_Status	X,4	137		HS1 Supply Max
AlaData.AlaPt51_Status	X,4	138		HS2 Supply Max
AlaData.AlaPt52_Status	X,4	139		HS3 Supply Max
AlaData.AlaPt53_Status	X,4	140		HS1 Supply Min
AlaData.AlaPt54_Status	X,4	141		HS2 Supply Min
AlaData.AlaPt55_Status	X,4	142		HS3 Supply Min
AlaData.AlaPt56_Status	X,4	143		HS1 Return Max
AlaData.AlaPt57_Status	X,4	144		HS2 Return Max

AlaData.AlaPt58_Status	X,4	145		HS3 Return Max
AlaData.AlaPt59_Status	X,4	146		HS1Return Min
AlaData.AlaPt60_Status	X,4	147		HS2 Return Min
AlaData.AlaPt61_Status	X,4	148		HS3 Return Min
AlaData.AlaPt62_Status	X,4	149		HS1 Frost
AlaData.AlaPt63_Status	X,4	150		HS2 Frost
AlaData.AlaPt64_Status	X,4	151		HS3 Frost
AlaData.AlaPt65_Status	X,4	152		Internal battery error
AlaData.AlaPt66_Status	X,4	167		Low Boiler return temp
AlaData.AlaPt67_Status	X,4	168		Sensor error HS1 Supply
AlaData.AlaPt68_Status	X,4	169		Sensor error HS2 Supply
AlaData.AlaPt69_Status	X,4	170		Sensor error HS3 Supply
AlaData.AlaPt70_Status	X,4	171		Sensor error HW1 Supply
AlaData.AlaPt71_Status	X,4	172		Sensor error HW2 Supply
AlaData.AlaPt72_Status	X,4	173		Sensor error HP1 Supply
AlaData.AlaPt73_Status	X,4	174		Sensor error HS1 Room
AlaData.AlaPt74_Status	X,4	175		Sensor error HS2 Room
AlaData.AlaPt75_Status	X,4	176		Sensor error HS3 Room
AlaData.AlaPt76_Status	X,4	177		Sensor error HS1 Return
AlaData.AlaPt77_Status	X,4	178		Sensor error HS2 Return
AlaData.AlaPt78_Status	X,4	179		Sensor error HS3 Return
AlaData.AlaPt79_Status	X,4	180		Sensor error HP1 Return
AlaData.AlaPt80_Status	X,4	181		Sensor error Wind
AlaData.AlaPt81_Status	X,4	182		Sensor error Pressure
AlaData.AlaPt82_Status	X,4	183		Sensor error Boiler temp
AlaData.AlaPt83_Status	X,4	184		Sensor error Boiler Return

8.2. Alarm points

Signal name	Type	Modbus address	Default value	Description
Heating2.Cor_AlaPt(1)	L,2	38		Malfunction P1A-HS1: 0=No alarm 1=Alarm
Heating2.Cor_AlaPt(2)	L,2	39		Malfunction P1B-HS1
Heating2.Cor_AlaPt(3)	L,2	40		Malfunction P1A-HS2
Heating2.Cor_AlaPt(4)	L,2	41		Malfunction P1B-HS2

Heating2.Cor_AlaPt(5)	L,2	42		Malfunction P1A-HS3
Heating2.Cor_AlaPt(6)	L,2	43		Malfunction P1B-HS3
Heating2.Cor_AlaPt(7)	L,2	44		Malfunction P1-HWC1
Heating2.Cor_AlaPt(8)	L,2	45		Malfunction P1-HP1
Heating2.Cor_AlaPt(9)	L,2	46		Malfunction frequency converter
Heating2.Cor_AlaPt(10)	L,2	47		Expansion vessel
Heating2.Cor_AlaPt(11)	L,2	48		External alarm
Heating2.Cor_AlaPt(12)	L,2	49		Boiler alarm
Heating2.Cor_AlaPt(13)	L,2	50		Deviation HS1
Heating2.Cor_AlaPt(14)	L,2	51		Deviation HS2
Heating2.Cor_AlaPt(15)	L,2	52		Deviation HS3
Heating2.Cor_AlaPt(16)	L,2	53		Deviation HWC1
Heating2.Cor_AlaPt(17)	L,2	54		Deviation HWC2
Heating2.Cor_AlaPt(18)	L,2	55		Sensor error outdoor temp
Heating2.Cor_AlaPt(19)	L,2	56		High HWC1 temp
Heating2.Cor_AlaPt(20)	L,2	57		High HWC2 temp
Heating2.Cor_AlaPt(21)	L,2	58		High Boiler temp
Heating2.Cor_AlaPt(22)	L,2	59		Low Boiler temp
Heating2.Cor_AlaPt(23)	L,2	60		Pulse error volume
Heating2.Cor_AlaPt(24)	L,2	61		Pulse error energy
Heating2.Cor_AlaPt(25)	L,2	62		High cold water usage/day
Heating2.Cor_AlaPt(26)	L,2	63		High energy usage
Heating2.Cor_AlaPt(27)	L,2	64		High cold water usage/hour
Heating2.Cor_AlaPt(28)	L,2	65		High leakage
Heating2.Cor_AlaPt(29)	L,2	66		Malfunction P1A&B-HS1
Heating2.Cor_AlaPt(30)	L,2	67		Malfunction P1A&B-HS2
Heating2.Cor_AlaPt(31)	L,2	68		Malfunction P1A&B-HS3
Heating2.Cor_AlaPt(32)	L,2	69		Pulse error CW1
Heating2.Cor_AlaPt(33)	L,2	70		Pulse error CW2
Heating2.Cor_AlaPt(34)	L,2	71		HS1 manual
Heating2.Cor_AlaPt(35)	L,2	72		HS2 manual
Heating2.Cor_AlaPt(36)	L,2	73		HS3 manual
Heating2.Cor_AlaPt(37)	L,2	74		HWC1 manual
Heating2.Cor_AlaPt(38)	L,2	75		HWC2 manual
Heating2.Cor_AlaPt(39)	L,2	76		Pressure manual
Heating2.Cor_AlaPt(40)	L,2	77		Boiler manual
Heating2.Cor_AlaPt(41)	L,2	78		P1A-HS1 manual
Heating2.Cor_AlaPt(42)	L,2	79		P1B-HS1 manual

Heating2.Cor_AlaPt(43)	L,2	80		P1A-HS2 manual
Heating2.Cor_AlaPt(44)	L,2	81		P1B-HS2 manual
Heating2.Cor_AlaPt(45)	L,2	82		P1A-HS3 manual
Heating2.Cor_AlaPt(46)	L,2	83		P1B-HS3 manual
Heating2.Cor_AlaPt(47)	L,2	84		P1-HWC1 manual
Heating2.Cor_AlaPt(48)	L,2	85		P1-HP1 manual
Heating2.Cor_AlaPt(49)	L,2	86		P1-Freq. manual
Heating2.Cor_AlaPt(50)	L,2	87		HS1 Supply Max
Heating2.Cor_AlaPt(51)	L,2	88		HS2 Supply Max
Heating2.Cor_AlaPt(52)	L,2	89		HS3 Supply Max
Heating2.Cor_AlaPt(53)	L,2	90		HS1 Supply Min
Heating2.Cor_AlaPt(54)	L,2	91		HS2 Supply Min
Heating2.Cor_AlaPt(55)	L,2	92		HS3 Supply Min
Heating2.Cor_AlaPt(56)	L,2	93		HS1 Return Max
Heating2.Cor_AlaPt(57)	L,2	94		HS2 Return Max
Heating2.Cor_AlaPt(58)	L,2	95		HS3 Return Max
Heating2.Cor_AlaPt(59)	L,2	96		HS1Return Min
Heating2.Cor_AlaPt(60)	L,2	97		HS2 Return Min
Heating2.Cor_AlaPt(61)	L,2	98		HS3 Return Min
Heating2.Cor_AlaPt(62)	L,2	99		HS1 Frost
Heating2.Cor_AlaPt(63)	L,2	100		HS2 Frost
Heating2.Cor_AlaPt(64)	L,2	101		HS3 Frost
Heating2.Cor_AlaPt(65)	L,2	102		Internal battery error
Heating2.Cor_AlaPt(66)	L,2	114		Low Boiler return temp
Heating2.Cor_AlaPt(67)	L,2	115		Sensor error HS1 Supply
Heating2.Cor_AlaPt(68)	L,2	116		Sensor error HS2 Supply
Heating2.Cor_AlaPt(69)	L,2	117		Sensor error HS3 Supply
Heating2.Cor_AlaPt(70)	L,2	118		Sensor error HW1 Supply
Heating2.Cor_AlaPt2(1)	L,2	119		Sensor error HW2 Supply
Heating2.Cor_AlaPt2(2)	L,2	120		Sensor error HP1 Supply
Heating2.Cor_AlaPt2(3)	L,2	121		Sensor error HS1 Room
Heating2.Cor_AlaPt2(4)	L,2	122		Sensor error HS2 Room
Heating2.Cor_AlaPt2(5)	L,2	123		Sensor error HS3 Room
Heating2.Cor_AlaPt2(6)	L,2	124		Sensor error HS1 Return
Heating2.Cor_AlaPt2(7)	L,2	125		Sensor error HS2 Return
Heating2.Cor_AlaPt2(8)	L,2	126		Sensor error HS3 Return
Heating2.Cor_AlaPt2(9)	L,2	127		Sensor error HP1 Return
Heating2.Cor_AlaPt2(10)	L,2	128		Sensor error Wind

Heating2.Cor_AlaPt2(11)	L,2	129		Sensor error Pressure
Heating2.Cor_AlaPt2(12)	L,2	130		Sensor error Boiler temp
Heating2.Cor_AlaPt2(13)	L,2	131		Sensor error Boiler Return

8.3. Alarm Acknowledging, Blocking and Unblocking

Signal name	Type	Modbus address	Default value	Description
Alarms.AlaAcknow	X,3	518	255	External alarm acknowledge by setting this signal to the alarm number that should be acknowledge.
Alarms.AlaBlock	X,3	519	255	External alarm blocking by setting this signal to the alarm number that should be blocked.
Alarms.AlaUnBlock	X,3	520	255	External alarm unblocking by setting this signal to the alarm number that should be unblocked.