SAUTER

SAUTER flexotron800 V2 Heating

Liste der Netzwerkvariablen für die Modbus- und BACnet-Kommunikation

Benutzerhandbuch
P100013568

Inhalt

1 Allgemeine Hinweise

1.1 Haftungsausschluss

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Software version: 3.3

Revision: August 2014

2 Vorwort

Das Benutzerhandbuch wird von SAUTER ohne Garantie bereitgestellt. SAUTER kann zu jeder Zeit und ohne vorherige Ankündigung, Änderungen und Verbesserungen im Handbuch vornehmen.

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Revisionstand A, August 2014

3 flexotron800 mit Modbus- und BACnet-Kommunikation

Einführung

Bei flexotron800 heating handelt es sich um eine vorprogrammierte Anwendung zur Steuerung von Klimageräten. Der flexotron800 Regler kann entweder separat verwendet oder in ein vorhandenes Projekt integriert werden. In beiden Fällen wird die Konfiguration über das Display oder das Konfigurationstool SAUTER CASE flexotron auf einem PC vorgenommen.

In vorliegendem Dokument werden alle Signale beschrieben, auf die über Modbus zugegriffen werden kann. In diesem Dokument wird nicht beschrieben, wie ein Projekt angelegt wird.

Signaltypen

Alle Signale, auf die von einem SCADA-System aus zugegriffen werden kann, werden in vorliegendem Handbuch beschrieben.
Signale, die einen Standardwert aufweisen, sind konfigurierbar. Diese Einstellungen können über SCADA geändert werden. Signale ohne Standardwerte sind Ist-Werte, die nicht über SCADA geändert werden können.

Variablentypen

Folgende Typen von Variablen sind vorhanden:

- R = Real (-3.3E38 - 3.3E38)
- I = Integer (-32768 - 32767)
- X = Index (0 - 255)
- L = Logic (0/1)

Modbus-Typen

Für die Signale gibt es folgende Modbus-Typen:
1 = Coil Status Register (Spulenstatusregister) (Modbus-Funktion = 1, 5 und 15)
2 = Input Status Register (Eingangsstatusregister) (Modbus-Funktion = 2)
3 = Holding Register (Modbus-Funktion = 3, 6 und 16)
4 = Input Register (Eingangsregister) (Modbus-Funktion = 4)

Unterstützte Modbus-Funktionen:
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

BACnet Typen

Für die Signale gibt es folgende BACnet Typen:
10XXX = Read and write binary
20XXX = Read binary
30XXX = Read and write analogue
40XXX = Read analogue
30XXX = Read and write multistate
40XXX = Read multistate
(Where XXX = Modbus address)

Max. 47 Register

In einer Meldung können maximal 47 Register gelesen werden.

Kommunikation – Grenzwerte

Zwischen zwei Meldungen muss der Modbus-Master mindestens 3,5 Zeichen warten (4 ms bei 9.600 bps). Wenn der Modbus-Master mit mehr als einem flexotron800 Regler über ein und dieselbe Kommunikationsleitung (RS485) kommuniziert, ist ein Ruheintervall von mindestens 14 Zeichen (16 ms bei 9.600 bps) zwischen der Antwort und der ersten Anfrage an den nächsten Regler erforderlich.

Bei dem flexotron800 Regler ist die Anzahl der schnellen Kommunikationsverbindungen je halbe Minute auf 10 begrenzt. Alle anderen Kommunikationsverbindungen antworten mit einer Verzögerung von ungefähr 1 Sekunde.

Modbus – Skalierungsfaktor

Real-Signale besitzen einen Skalierungsfaktor von 10; Ausnahmen sind die Zeiteinstellungssignale, die einen Skalierungsfaktor von 100 besitzen, und Luftstromsignale, die für die Modbus-Kommunikation einen Skalierungsfaktor von 1 besitzen. „Integer“, „Index“ und „Logic“ besitzen immer einen Skalierungsfaktor von 1.

Modbus-Aktivierung

Wenn Sie versuchen, mithilfe von Case flexotron mit einem über Modbus aktivierten Gerät zu kommunizieren, erfolgt die Anpassung des Eingangsports automatisch nach ungefähr 1 Sekunde. Der Port bleibt solange im EXO-Modus (ein proprietäres Protokoll), bis die Kommunikation 10 Sekunden lang inaktiv war. Nach diesen 10 Sekunden kehrt der Port in den Modbus-Modus zurück.

Modbus-Verdrahtung usw.

Protokolle wie Modbus bestehen aus mehreren Schichten (OSI-Modell). Bei der untersten Schicht handelt es sich stets um die physikalische Schicht, die Anzahl der Drähte und die Signalpegel. Die nächste Schicht beschreibt die

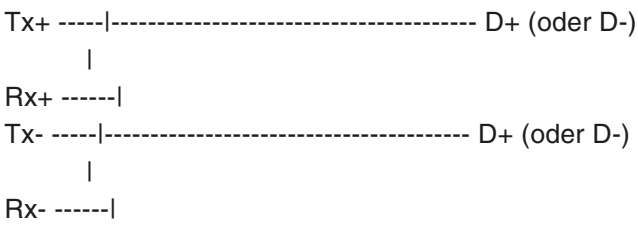
kommunikationsbezogenen Stellen (Anzahl von Datenbits, Stoppbits, Parität usw.). Die folgenden Schichten beschreiben die Modbus-spezifischen Funktionen (Anzahl von Stellen pro Meldung, Bedeutung der unterschiedlichen Meldungen usw.). Bei Modbus kann die unterste Schicht entweder RS485, RS422 oder RS232 sein.

RS485 versus RS422

Bei RS485 und RS422 handelt es sich um den elektrischen Teil des Protokolls, d. h. die physikalische Schicht. RS485 besitzt zwei Anschlüsse: A und B. Häufig ist zudem Schutzerde vorhanden. RS485-Geräte werden stets wie folgt angeschlossen: A → A und B → B. RS485 ist für die sogenannte Halbduplex-Kommunikation zuständig. Die Kommunikation kann jeweils nur in eine Richtung verlaufen, d. h. der Master sendet eine Anfrage und wartet auf die Antwort. A und B werden sowohl für die Übertragung als auch für den Empfang verwendet.

RS422 ist eine Vollduplex-Kommunikation, d. h. Sie benötigen vier Drähte: zwei für die Übertragung (Tx+ und Tx-) und zwei für den Empfang (Rx+ und Rx-). Tx dient der Übertragung, Rx dem Empfang. Daraus folgt, dass Tx in dem einen Gerät mit Rx in dem anderen Gerät verbunden sein muss (und umgekehrt). Hinsichtlich der Signalpegel sind RS422 und RS485 identisch.

Führen Sie die folgenden Schritte aus, um RS485 und RS422 miteinander zu verbinden: Verbinden Sie am RS422-Gerät Tx+ mit Rx+ und Tx- mit Rx-. Auf diese Weise wird ein Vierdraht-System zu einem Zweidraht-System umgewandelt, das dann über A und B an das RS485-Gerät angeschlossen werden kann. Welcher Draht an welcher Stelle angeschlossen werden muss, können Sie durch Ausprobieren feststellen. Bei vertauschter Polung funktioniert das Gerät nicht; das Gerät wird dadurch jedoch nicht beschädigt.



Bitrate, Stoppbit, Parität

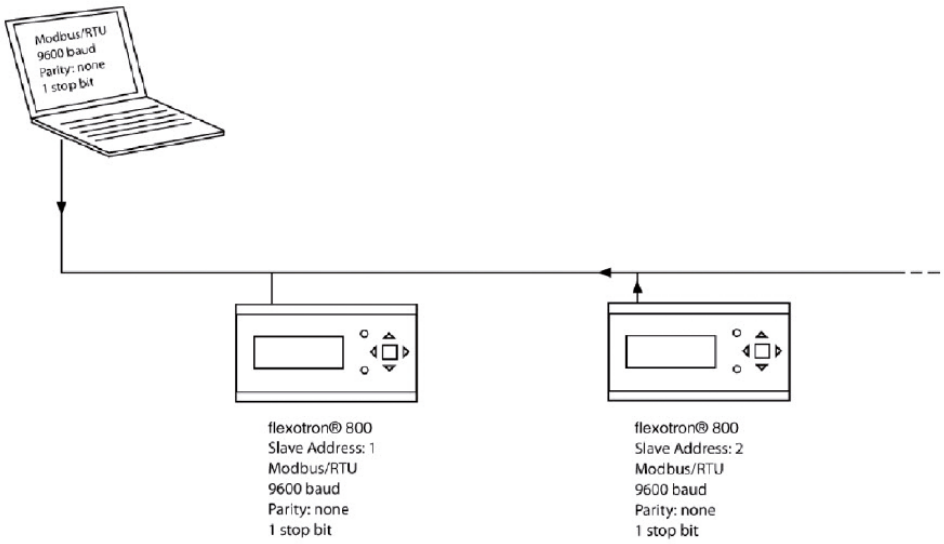
Die nächste Schicht besteht aus Bitrate, einem Stoppbit, Parität.

Diese Einstellungen müssen den Einstellungen im Master-Gerät entsprechen. Bringen Sie in Erfahrung, wie das Master-Gerät eingestellt ist, und richten Sie flexotron800 auf der Grundlage dieser Einstellungen ein.

Die Parität kann auf ungerade, gerade bzw. keine Parität gesetzt werden. Sie können nur ein Stoppbit wählen. 1 Startbit, 8 Datenbits, 1 Paritätsbit und 1 Stoppbit ergeben 11 Bits (Maximum).

Beispiel zur Veranschaulichung

Anhand des vereinfachten Beispiels unten soll die Master/Slave-Beziehung verdeutlicht werden. Zusätzlich zu dem Wert werden die Prüfsummen für die Meldungsvalidierung sowohl in der Anfrage als auch in der Antwort übertragen.

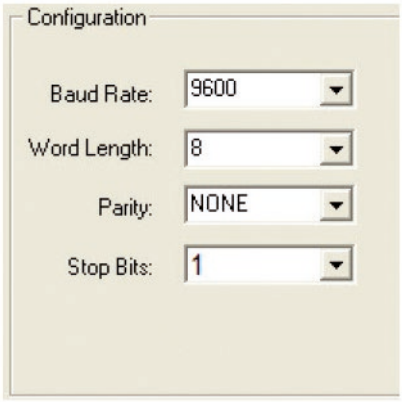


4 Systemintegration über Modbus

Konfiguration

Zunächst müssen die Kommunikationsparameter für die Modbus-Leitung konfiguriert werden. Wie bereits beschrieben, müssen diese Parameter identisch mit denen des Master-Geräts und der Slave-Geräte sein, da sie die Struktur der Meldungen sowie die Übertragungsgeschwindigkeit definieren.

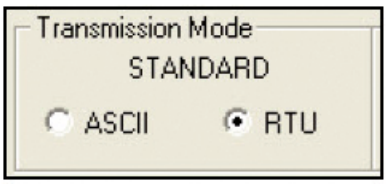
Die standardmässigen Konfigurationswerte eines flexotron800 Reglers werden in der untenstehenden Abbildung angezeigt.



Der flexotron800 ist standardmässig auf die Slave-Adresse 1 eingestellt .
Für jedes Zusatzgerät kann mithilfe des Displays oder über CASE flexotron eine neue Adresse festgelegt werden.

Übertragungsmodus

flexotron800 verwendet den Übertragungsmodus RTU, der nicht mit dem ASCII-Modus in den Einstellungen zu verwechseln ist. Die Einstellungen für den Übertragungsmodus müssen denen des Master-Geräts und der Slave-Geräte entsprechen, da Modbus/RTU keine Modbus/ASCII-Meldungen versteht. Die Wortlänge der Konfigurationsparameter beträgt für Modbus/RTU immer 8.

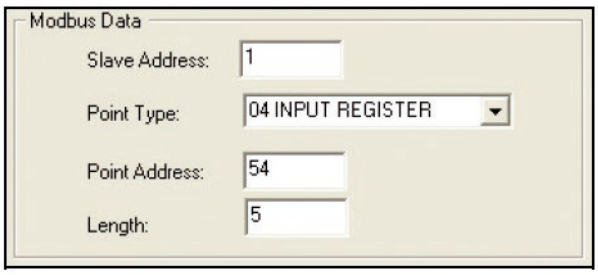


Werte schreiben

Um die Ausgangswerte von flexotron800 zu übersteuern, setzen Sie den Ausgang über ein Modbus-Signal auf manuellen Modus. Setzen Sie anschliessend das entsprechende „_ManSet“-Signal auf den gewünschten Pegel. Diese Signale werden in Kapitel 5 aufgeführt: Holding Register. Beachten Sie, dass nur Werte mit einem Standardwert angepasst werden können. Informationen zu diesen finden Sie in den Kapiteln „Coils Status Register“ und „Holding Register“.

Werte lesen

Sie können Werte auf effektive Weise lesen, indem Sie mehrere Variablen gleichzeitig lesen. Um beispielsweise sämtliche Analogausgänge zu lesen, setzen Sie die Modbus-Abfrage auf die in der folgenden Abbildung angezeigten Werte. Die erste Variable für den Analogausgang beginnt mit Adresse 54 (QAnaOut.AQ1). Zum Lesen von Adresse 54 bis 58 setzen Sie die Länge auf 5. Die Modbus-Antwort übermittelt nun alle fünf Werte in nur einer einzigen Meldung. Dadurch wird die Effektivität der Kommunikation erhöht.



5 Actual/Setpoint

5.1 General

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_OutDoorTemp(0)	R,4	1			Outdoor temperature
HeatingActual.Cor_OutDoorTemp(0)	R,3	507	AV, 30507		Outdoor temperature (can be modified if not connected to a physic analogue input)
HeatingActual.Cor_HPSupplyTemp	R,4	358	AV, 40358		Heating Primary supply temperature
HeatingActual.Cor_HPReturnTemp	R,4	359	AV, 40359		Heating Primary return temperature
HeatingActual.Cor_CPSupplyTemp	R,4	360	AV, 40360		Cooling Primary supply temperature
HeatingActual.Cor_CPReturnTemp	R,4	361	AV, 40361		Cooling Primary return temperature
HeatingActual.Cor_ExtraSensor1	R,4	362	AV, 40362		Additional sensor 1
HeatingActual.Cor_ExtraSensor2	R,4	363	AV, 40363		Additional sensor 2
HeatingActual.Cor_ExtraSensor3	R,4	364	AV, 40364		Additional sensor 3
HeatingActual.Cor_ExtraSensor4	R,4	365	AV, 40365		Additional sensor 4
HeatingActual.Cor_ExtraSensor5	R,4	366	AV, 40366		Additional sensor 5
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 HS2 is active
TimePro.TimeGroupHS3	L,2	3			Is set if timechannel comfort time HS3 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
TimePro.TimeGroupCS1	L,2	237			Is set if timechannel comfort time CS1 is active

5.2 Heating System 1 (HS1)

Signalbezeichnung	Typ	Modbus-Address	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HS1PID_Input	R,4	2	AV, 40002		Supply temperature HS1
HeatingActual.Cor_HS1PID_SetP	R,4	3	AV, 40003		Outdoor compensated setpoint supply temperature HS1
HeatingSettings.Cor_HS1Curve_X1	I,3	1		-20°C	Outdoortemp for first curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X2	I,3	2		-15°C	Outdoortemp for second curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X3	I,3	3		-10°C	Outdoortemp for third curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X4	I,3	4		-5°C	Outdoortemp for fourth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X5	I,3	5		0°C	Outdoortemp for fifth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X6	I,3	6		5°C	Outdoortemp for sixth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X7	I,3	7		10°C	Outdoortemp for seventh curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_X8	I,3	8		15°C	Outdoortemp for eighth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y1	I,3	9	AV, 30009	67°C	Setpoint for first curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y2	I,3	10	AV, 30010	63°C	Setpoint for second curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y3	I,3	11	AV, 30011	59°C	Setpoint for third curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y4	I,3	12	AV, 30012	55°C	Setpoint for fourth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y5	I,3	13	AV, 30013	53°C	Setpoint for fifth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y6	I,3	14	AV, 30014	43°C	Setpoint for sixth curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y7	I,3	15	AV, 30015	35°C	Setpoint for seventh curvepoint for outdoor compensated setpoint HS1
HeatingSettings.Cor_HS1Curve_Y8	I,3	16	AV, 30016	25°C	Setpoint for eighth curvepoint for outdoor compensated setpoint HS1

Signalbezeichnung	Typ	Modbus-Address	BACnet	Default-Wert	Beschreibung
Heating1.Cor_HS1ParallelTransfer	R,3	535		0 °C	Parallel transfer of setpointcurve HS1
HeatingActual.Cor_HS1RoomTemp	R,4	4	AV, 40004		Room temperature HS1
HeatingSettings.Cor_HS1RoomSetP	R,3	17	AV, 30017	21°C	Setpoint room temperature HS1
HeatingActual.Cor_HS1ReturnTemp	R,4	5	AV, 40005		Return temperature HS1
HeatingActual.Cor_HS1PumpARun(0)	L,2	11	BV, 20011		Is set if running pump HS1 P1A
HeatingActual.Cor_HS1PumpBRun	L,2	12	BV, 20012		Is set if running pump HS1 P1B
HeatingActual.Cor_HS1PumpAStart(0)	L,2	103			Start signal pump HS1 P1A
HeatingActual.Cor_HS1PumpBStart	L,2	104			Start signal pump HS1 P1B
HeatingActual.Cor_HS1CV1(0)	R,4	153			Control signal HS1 CV (0-10 V)
HeatingActual.Cor_HS1PID_Output	R,4	160	AV, 40160		Controller output HS1 (0-100%)
HeatingActual.Cor_HS1RetPID_Output	R,4	346	AV, 40346		Controller output HS1 Return temp. (0-100%)
HeatingSettings.Cor_HS1PumpDayLimit(0)	R,3	521		17°C	Outdoor temp for pump stop day HS1
HeatingSettings.Cor_HS1PumpNightLimit(0)	R,3	524		17°C	Outdoor temp for pump stop night HS1
HeatingSettings.Cor_PowerLimit_SetPoint	R,3	617	AV, 30617		Setpoint HS1 power limit
HeatingSettings.Cor_PowerLimitPID_Pgain	R,3	620			P-band HS1 power limit
HeatingSettings.Cor_PowerLimitPID_Itime	R,3	621			I-time HS1 power limit
HeatingActual.Cor_PowerLimitPID_Input	R,4	353	AV, 40353		Controller Input HS1 power limit (kW)
HeatingActual.Cor_PowerLimitPID_SetP	R,4	355	AV, 40355		Controller Setpoint HS1 power limit (kW)
HeatingActual.Cor_HS1OptActualStart-Time(0)	R,4	350			Start Optimizer, Time until start HS1
HeatingActual.Cor_HS1RetPID_Input	R,4	410	AV, 40410		Actual difference between HP and HS1 return
HeatingActual.Cor_HS1RetPID_Output	R,4	413			Controller output HS1 Return temp (0-100%)
HeatingActual.Cor_HS1RetPID_SetP	R,3	731	AV, 30731	3°C	HS1 Max Delta-T HP/HS

5.3 Heating System 2 (HS2)

Signalbezeichnung	Typ	Modbus-Address	BAC-net	Default value	Description
HeatingActual.Cor_HS2PID_Input	R,4	6	AV, 40006		Supply temperature HS2
HeatingActual.Cor_HS2PID_SetP	R,4	7	AV, 40007		Outdoor compensated setpoint supply temperature HS2
HeatingSettings.Cor_HS2Curve_X1	I,3	18		-20°C	Outdoortemp for first curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X2	I,3	19		-15°C	Outdoortemp for second curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X3	I,3	20		-10°C	Outdoortemp for third curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X4	I,3	21		-5°C	Outdoortemp for fourth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X5	I,3	22		0°C	Outdoortemp for fifth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X6	I,3	23		5°C	Outdoortemp for sixth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X7	I,3	24		10°C	Outdoortemp for seventh curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_X8	I,3	25		15°C	Outdoortemp for eighth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y1	I,3	26	AV, 30026	67°C	Setpoint for first curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y2	I,3	27	AV, 30027	63°C	Setpoint for second curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y3	I,3	28	AV, 30028	59°C	Setpoint for third curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y4	I,3	29	AV, 30029	55°C	Setpoint for fourth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y5	I,3	30	AV, 30030	53°C	Setpoint for fifth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y6	I,3	31	AV, 30031	43°C	Setpoint for sixth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y7	I,3	32	AV, 30032	35°C	Setpoint for seventh curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2Curve_Y8	I,3	33	AV, 30033	25°C	Setpoint for eighth curvepoint for outdoor compensated setpoint HS2
HeatingSettings.Cor_HS2ParallelTransfer	R,3	536		0 °C	Parallel transfer of setpointcurve HS2
HeatingActual.Cor_HS2RoomTemp	R,4	8	AV, 40008		Room temperature HS2
HeatingSettings.Cor_HS2RoomSetP	R,3	34	AV, 30034	21°C	Setpoint room temperature HS2

Signalbezeichnung	Typ	Modbus-Address	BAC-net	Default value	Description
HeatingActual.Cor_HS2ReturnTemp	R,4	9	AV, 40009		Return temperature HS2
HeatingActual.Cor_HS2PumpARun	L,2	13	BV, 20013		Is set if running pump HS2 P1A
HeatingActual.Cor_HS2PumpBRun	L,2	14	BV, 20014		Is set if running pump HS2 P1B
HeatingActual.Cor_HS2PumpAStart	L,2	105			Start signal pump HS2 P1A
HeatingActual.Cor_HS2PumpBStart	L,2	106			Start signal pump HS2 P1B
HeatingActual.Cor_HS2CV1	R,4	154			Control signal HS2 CV (0-10 V)
HeatingActual.Cor_HS2RetPID_Output	R,4	347	AV, 40347		Controller output HS2 Return temp. (0-100%)
HeatingActual.Cor_HS2PID_Output	R,4	161	AV, 40161		Controller output HS2 (0-100%)
HeatingSettings.Cor_HS2PumpDayLimit(0)	R,3	522		17°C	Outdoor temp for pump stop day HS2
HeatingSettings.Cor_HS2PumpNightLimit(0)	R,3	525		17°C	Outdoor temp for pump stop night HS2
HeatingActual.Cor_HS2OptActualStartTime	X,4	351			Start Optimizer, Time until start HS2
HeatingActual.Cor_HS2RetPID_Input	R,4	411	AV, 40411		Actual difference between HP and HS2 return
HeatingActual.Cor_HS2RetPID_Output	R,4	414			Controller output HS2 Return temp. (0-100%)
HeatingActual.Cor_HS2RetPID_SetP	R,3	732	AV, 30732		HS2 Max Delta-T HP/HS

5.4 Heating System 3 (HS3)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HS3PID_Input	R,4	10	AV, 40010		Supply temperature HS3
HeatingActual.Cor_HS3PID_SetP	R,4	11	AV, 40011		Outdoor compensated setpoint supply temperature HS3
HeatingSettings.Cor_HS3Curve_X1	I,3	35		-20°C	Outdoortemp for first curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_X2	I,3	36		-15°C	Outdoortemp for second curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_X3	I,3	37		-10°C	Outdoortemp for third curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_X4	I,3	38		-5°C	Outdoortemp for fourth curvepoint for outdoor compensated setpoint HS3

Actual/Setpoint

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS3Curve_X5	I,3	39		0°C	Outdoortemp for fifth curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_X6	I,3	40		5°C	Outdoortemp for sixth curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_X7	I,3	41		10°C	Outdoortemp for seventh curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_X8	I,3	42		15°C	Outdoortemp for eighth curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y1	I,3	43		67°C	Setpoint for first curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y2	I,3	44		63°C	Setpoint for second curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y3	I,3	45		59°C	Setpoint for third curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y4	I,3	46		55°C	Setpoint for fourth curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y5	I,3	47		53°C	Setpoint for fifth curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y6	I,3	48		43°C	Setpoint for sixth curvepoint for outdoor compensated setpoint HS3
HeatingSettings.Cor_HS3Curve_Y7	I,3	49		35°C	Setpoint for seventh curvepoint for outdoor compensated setpoint HS3
HeatingSettings.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
HeatingActual.Cor_HS3RoomTemp	R,4	12	AV, 40012		Room temperature HS3
HeatingSettings.Cor_HS3RoomSetP	R,3	51	AV, 30051	21°C	Setpoint room temperature HS3
HeatingActual.Cor_HS3ReturnTemp	R,4	13	AV, 40013		Return temperature HS3
HeatingActual.Cor_HS3PumpARun	L,2	15	BV, 20015		Is set if running pump HS3 P1A
HeatingActual.Cor_HS3PumpBRun	L,2	16	BV, 20016		Is set if running pump HS3 P1B
HeatingActual.Cor_HS3PumpAStart	L,2	107			Start signal pump HS3 P1A
HeatingActual.Cor_HS3PumpBStart	L,2	108			Start signal pump HS3 P1B
HeatingActual.Cor_HS3CV1	R,4	155			Control signal HS3 CV (0-10 V)
HeatingActual.Cor_HS3PID_Output	R,4	162	AV, 40162		Controller output HS3 (0-100%)
HeatingSettings.Cor_HS3PumpDay-Limit(0)	R,3	523		17°C	Outdoor temp for pump stop day HS3

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS3PumpNight-Limit(0)	R,3	526		17°C	Outdoor temp for pump stop night HS3
HeatingActual.Cor_HS3OptActual-StartTime	X,4	352			Start Optimizer, Time until start HS3

5.5 Hot Water 1 (HWC1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HW1SupplyTemp	R,4	14	AV, 40014		Supply temperature HWC1
HeatingSettings.Cor_HW1Setpoint	R,3	52	AV, 30052	55°C	Setpoint supply HWC1
HeatingActual. Cor_HW1PumpRun	L,2	17	BV, 20017		Is set if running pump HW1
HeatingActual.Cor_HW1PumpStart	L,2	109			Start signal pump HW1
HeatingActual.Cor_HW1CV1	R,4	156			Control signal HW1 CV (0-10 V)
HeatingActual.Cor_HW1PID_Output	R,4	163	AV, 40163		Controller output HW1 (0-100%)

5.6 Hot Water 2 (HWC2)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HW2SupplyTemp	R,4	15	AV, 40015		Supply temperature HWC2
HeatingSettings.Cor_HW2Setpoint	R,3	53	AV, 30053	55°C	Setpoint supply HWC2
HeatingActual.Cor_HW2CV1	R,4	157			Control signal HWC2 CV (0-10 V)
HeatingActual.Cor_HW2PID_Output	R,4	164	AV, 40164		Controller output HWC2 (0-100%)

5.7 Primary Tap Hot Water (HP1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HP1SupplyTemp	R,4	16	AV, 40016		Supply temperature HP1
HeatingActual.Cor_HP1ReturnTemp	R,4	17	AV, 40017		Return temperature HP1
HeatingActual.Cor_HP1PumpRun	L,2	18	BV, 20018		Is set if running pump HP1
HeatingSettings.Cor_HP1StartTemp	R,3	54		46°C	Start temperature for start of load pump HP1 on return temperature

Actual/Setpoint

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HP1StopTemp	R,3	55		55°C	Stop temperature for stop of load pump HP1 on supply temperature
HeatingSettings.Cor_HP1TempDiff	R,3	56		2°C	Difference temperature for stop of load pump HP1 on return temperature
HeatingActual.Cor_HP1PumpStart	L,2	110			Start signal pump HP1

5.8 Boiler Control

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_BoilerTemp	R,4	18			Boiler temperature (3.1 or earlier)
HeatingActual.Cor_BoilerReturnTemp	R,4	356	AV, 40356		Boiler return temperature
HeatingSettings.Cor_BoilerStartTemp1	R,3	57		45°C	Start temperature boiler for start signal 1 (3.1 or earlier)
HeatingSettings.Cor_BoilerStartTemp2	R,3	58		40°C	Start temperature boiler for start signal 2 (3.1 or earlier)
HeatingSettings.Cor_BoilerStopTemp1	R,3	59		55°C	Boiler stop temperature, for stop signal 1 (3.1 or earlier)
HeatingSettings.Cor_BoilerStopTemp2	R,3	623		55°C	Boiler stop temperature 2, for stop signal 2 (3.1 or earlier)
HeatingActual.Cor_BoilerStart1	L,2	112			Start signal 1 boiler (3.1 or earlier)
HeatingActual.Cor_BoilerStart2	L,2	113			Start signal 2 boiler (3.1 or earlier)
HeatingSettings.Cor_BoilerStartHyst1	R,3	624		2	Boiler start hyst.1, for start signal 1(3.1 or earlier)
HeatingSettings.Cor_BoilerStartHyst2	R,3	625		4	Boiler start hyst.2, for start signal 2 (3.1 or earlier)
HeatingSettings.Cor_BoilerStopHyst1	R,3	626		0	Boiler stop hyst.1, for stop signal 1(3.1 or earlier)
HeatingSettings.Cor_BoilerStopHyst2	R,3	627		2	Boiler stop hyst.2, for stop signal 2(3.1 or earlier)
HeatingActual.Cor_HB1Run(0)	L,2	242	BV, 20242		Run indication Boiler 1
HeatingActual.Cor_HB2Run	L,2	243	BV, 20243		Run indication Boiler 2
HeatingActual.Cor_HB3Run	L,2	244	BV, 20244		Run indication Boiler 3
HeatingActual.Cor_HB4Run	L,2	245	BV, 20245		Run indication Boiler 4
HeatingActual.Cor_HB1PumpRun	L,2	246	BV, 20246		Run indication Boiler 1 pump

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HB2PumpRun	L,2	247	BV, 20247		Run indication Boiler 2 pump
HeatingActual.Cor_HB3PumpRun	L,2	248	BV, 20248		Run indication Boiler 3 pump
HeatingActual.Cor_HB4PumpRun	L,2	249	BV, 20249		Run indication Boiler 4 pump
HeatingActual.Cor_TPRun	L,2	250	BV, 20250		Run indication transportpump
HeatingActual.Cor_HB1Exercising	L,2	251			Boiler1 exercising
HeatingActual.Cor_HB2Exercising	L,2	252			Boiler2 exercising
HeatingActual.Cor_HB3Exercising	L,2	253			Boiler3 exercising
HeatingActual.Cor_HB4Exercising	L,2	254			Boiler4 exercising
HeatingActual.Cor_HBPumpExercising	L,2	255			Boiler pump exercising
HeatingActual.Cor_HB1StartLow(0)	L,2	256	BV, 20256		Start Boiler 1 Low effect
HeatingActual.Cor_HB1StartHigh	L,2	257	BV, 20257		Start Boiler 1 High effect
HeatingActual.Cor_HB2StartLow	L,2	258	BV, 20258		Start Boiler 2 Low effect
HeatingActual.Cor_HB2StartHigh	L,2	259	BV, 20259		Start Boiler 2 High effect
HeatingActual.Cor_HB3StartLow	L,2	260	BV, 20260		Start Boiler 3 Low effect
HeatingActual.Cor_HB3StartHigh	L,2	261	BV, 20261		Start Boiler 3 High effect
HeatingActual.Cor_HB4StartLow	L,2	262	BV, 20262		Start Boiler 4 Low effect
HeatingActual.Cor_HB4StartHigh	L,2	263	BV, 20263		Start Boiler 4 High effect
HeatingActual.Cor_HB1PumpStart(0)	L,2	264			Start Boiler pump 1
HeatingActual.Cor_HB2PumpStart	L,2	265			Start Boiler pump 2
HeatingActual.Cor_HB3PumpStart	L,2	266			Start Boiler pump 3
HeatingActual.Cor_HB4PumpStart	L,2	267			Start Boiler pump 4
HeatingActual.Cor_TPStart	L,2	268			Starting the transport pump

Actual/Setpoint

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HB1Exercise	L,1	8		0	Activate exercise Boiler 1: 0 = Exercise off 1 = Exercise on
HeatingSettings.Cor_HB2Exercise	L,1	9		0	Activate exercise Boiler 2
HeatingSettings.Cor_HB3Exercise	L,1	10		0	Activate exercise Boiler 3
HeatingSettings.Cor_HB4Exercise	L,1	11		0	Activate exercise Boiler 4
HeatingSettings.Cor_HB1Reset	L,1	12		0	Boiler 1 Reset: Resets the total run time when set to 1.
HeatingSettings.Cor_HB2Reset	L,1	13		0	Boiler 2 Reset
HeatingSettings.Cor_HB3Reset	L,1	14		0	Boiler 3 Reset
HeatingSettings.Cor_HB4Reset	L,1	15		0	Boiler 4 Reset
HeatingSettings.Cor_HBAlternate	L,1	16		0	Command to alternate Boilers.
HeatingActual.Cor_HB1RunMode	R,4	377			Run mode HB1: 0 = Off 1 = On (normal effect) 2 = High effect
HeatingActual.Cor_HB2RunMode	R,4	378			Run mode HB2
HeatingActual.Cor_HB3RunMode	R,4	379			Run mode HB3
HeatingActual.Cor_HB4RunMode	R,4	380			Run mode HB4
HeatingActual.Cor_HB1TotalRT	R,4	381			Total run time Boiler 1
HeatingActual.Cor_HB2TotalRT	R,4	382			Total run time Boiler 2
HeatingActual.Cor_HB3TotalRT	R,4	383			Total run time Boiler 3
HeatingActual.Cor_HB4TotalRT	R,4	384			Total run time Boiler 4
HeatingActual.Cor_HB1NoOfStarts	R,4	385			Total number of starts Boiler 1
HeatingActual.Cor_HB2NoOfStarts	R,4	386			Total number of starts Boiler 2
HeatingActual.Cor_HB3NoOfStarts	R,4	387			Total number of starts Boiler 3
HeatingActual.Cor_HB4NoOfStarts	R,4	388			Total number of starts Boiler 4
HeatingActual.Cor_HB1ReturnTemp_Output	R,4	389	AV, 40389		Controller output HB1 Return temp valve (0-100%)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_HB2ReturnTemp_Output	R,4	390	AV, 40390		Controller output HB2 Return temp valve (0-100%)
HeatingActual.Cor_HB3ReturnTemp_Output	R,4	391	AV, 40391		Controller output HB3 Return temp valve (0-100%)
HeatingActual.Cor_HB4ReturnTemp_Output	R,4	392	AV, 40392		Controller output HB4 Return temp valve (0-100%)
HeatingActual.Cor_HBPID_Output	R,4	393	AV, 40393		Controller output HB (0-100%)
HeatingSettings.Cor_HB1MinRunTime	I,3	628		180	Minimum runtime before HB1 is allowed to stop again.
HeatingSettings.Cor_HB2MinRunTime	I,3	629		180	Minimum runtime before HB2 is allowed to stop again.
HeatingSettings.Cor_HB3MinRunTime	I,3	630		180	Minimum runtime before HB3 is allowed to stop again.
HeatingSettings.Cor_HB4MinRunTime	I,3	631		180	Minimum runtime before HB4 is allowed to stop again.
HeatingSettings.Cor_HB1MinStopTime	I,3	632		180	Minimum stoptime before HB1 is allowed to start again.
HeatingSettings.Cor_HB2MinStopTime	I,3	633		180	Minimum stoptime before HB2 is allowed to start again.
HeatingSettings.Cor_HB3MinStopTime	I,3	634		180	Minimum stoptime before HB3 is allowed to start again.
HeatingSettings.Cor_HB4MinStopTime	I,3	635		180	Minimum stoptime before HB4 is allowed to start again.
HeatingSettings.Cor_HB1ReturnTempSetP	R,3	636	AV, 30636	40	Setpoint return temp. HB1
HeatingSettings.Cor_HB2ReturnTempSetP	R,3	637	AV, 30637	40	Setpoint return temp. HB2
HeatingSettings.Cor_HB3ReturnTempSetP	R,3	638	AV, 30638	40	Setpoint return temp. HB3
HeatingSettings.Cor_HB4ReturnTempSetP	R,3	639	AV, 30639	40	Setpoint return temp. HB4
HeatingSettings.Cor_HBSetPointHSdepending	R,3	640	AV, 30640	5	offset (Heating system setpoint depending)
HeatingSettings.Cor_HBHyst	R,3	641		0,5	Hysteresis for stoping/Starting Boilers
HeatingSettings.Cor_TPStartLimit	R,3	642	AV, 30642	18	Transport pump start limit
HeatingSettings.Cor_TPHyst	R,3	643	AV, 30643	1	Hysteresis for stoping the Transport pump
HeatingSettings.Cor_HB1SD1	R,3	644	AV, 30644	5	HB1 Switch Difference 1
HeatingSettings.Cor_HB2SD1	R,3	645	AV, 30645	5	HB2 Switch Difference 1
HeatingSettings.Cor_HB3SD1	R,3	646	AV, 30646	5	HB3 Switch Difference 1

Actual/Setpoint

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HB4SD1	R,3	647	AV, 30647	5	HB4 Switch Difference 1
HeatingSettings.Cor_HB1SD2	R,3	648	AV, 30648	5	HB1 Switch Difference 2
HeatingSettings.Cor_HB2SD2	R,3	649	AV, 30649	5	HB2 Switch Difference 2
HeatingSettings.Cor_HB3SD2	R,3	650	AV, 30650	5	HB3 Switch Difference 2
HeatingSettings.Cor_HB4SD2	R,3	651	AV, 30651	5	HB4 Switch Difference 2
HeatingSettings.Cor_HB1OffsetSD2	R,3	652	AV, 30652	3	HB1 Offset Switch Diff. 2
HeatingSettings.Cor_HB2OffsetSD2	R,3	653	AV, 30653	3	HB2 Offset Switch Diff. 2
HeatingSettings.Cor_HB3OffsetSD2	R,3	654	AV, 30654	3	HB3 Offset Switch Diff. 2
HeatingSettings.Cor_HB4OffsetSD2	R,3	655	AV, 30655	3	HB4 Offset Switch Diff. 2
HeatingSettings.Cor_HB1VesselConf	X,3	658		1	Vessel configuration HB1 0 = Off 1 = Off/On 2 = Off/Low/High 3 = Modulation
HeatingSettings.Cor_HB2VesselConf	X,3	659		1	Vessel configuration HB2 (See list for vessel configuration HB1)
HeatingSettings.Cor_HB3VesselConf	X,3	660		1	Vessel configuration HB3 (See list for vessel configuration HB1)
HeatingSettings.Cor_HB4VesselConf	X,3	661		1	Vessel configuration HB4 (See list for vessel configuration HB1)
HeatingSettings.Cor_HBAlternateWDay	X,3	672		0	Weekday for Boiler alternation 0 = No alternation 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday 7 = Sunday 8 = Every day
HeatingSettings.Cor_HBAlternateHour	X,3	673		10	Hour for Boiler alternation
HeatingSettings.Cor_HBPumpStartDelay	X,3	674		30	Pump running time before it's OK to start Boiler
HeatingSettings.Cor_HBPumpStopDelay	X,3	675		30	Pump running time after Boiler stop
HeatingSettings.Cor_HBPumpExerciseHour	X,3	676		15	Boiler pump Exercise hour

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HBPumpExerciseTime	X,3	677		5	Boiler pump Exercise time
HeatingSettings.Cor_HB1ExerciseNoOfWeeks	X,3	678		4	Boiler 1 Exercising every XX week (0-4)
HeatingSettings.Cor_HB2ExerciseNoOfWeeks	X,3	679		4	Boiler 2 Exercising every XX week (0-4)
HeatingSettings.Cor_HB3ExerciseNoOfWeeks	X,3	680		4	Boiler 3 Exercising every XX week (0-4)
HeatingSettings.Cor_HB4ExerciseNoOfWeeks	X,3	681		4	Boiler 4 Exercising every XX week (0-4)
HeatingSettings.Cor_HB1ExerciseWDay	X,3	682		7	Boiler 1 Exercising Weekday 1 = Monday 2 = Tuesday 3 = Wednesday 4 = Thursday 5 = Friday 6 = Saturday 7 = Sunday
HeatingSettings.Cor_HB2ExerciseWDay	X,3	683		7	Boiler 2 Exercising Weekday (See list for Boiler 1)
HeatingSettings.Cor_HB3ExerciseWDay	X,3	684		7	Boiler 3 Exercising Weekday (See list for Boiler 1)
HeatingSettings.Cor_HB4ExerciseWDay	X,3	685		7	Boiler 4 Exercising Weekday (See list for Boiler 1)
HeatingSettings.Cor_HB1ExerciseHour	X,3	686		15	Boiler 1 Exercising hour
HeatingSettings.Cor_HB2ExerciseHour	X,3	687		15	Boiler 2 Exercising hour
HeatingSettings.Cor_HB3ExerciseHour	X,3	688		15	Boiler 3 Exercising hour
HeatingSettings.Cor_HB4ExerciseHour	X,3	689		15	Boiler 4 Exercising hour
HeatingSettings.Cor_HB1ExerciseTime	X,3	690		5	Time for exercising Boiler 1
HeatingSettings.Cor_HB2ExerciseTime	X,3	691		5	Time for exercising Boiler 2
HeatingSettings.Cor_HB3ExerciseTime	X,3	692		5	Time for exercising Boiler 3
HeatingSettings.Cor_HB4ExerciseTime	X,3	693		5	Time for exercising Boiler 4
HeatingSettings.Cor_NoOfBoilers	X,3	694		0	No. off active boilers
HeatingSettings.Cor_HB1StartMode	X,3	695		1	Start Mode HB1: 0 = Alternate 1 = Fixed 1 2 = Fixed 2 3 = Fixed 3 4 = Fixed 4 5 = Run time controlled

Actual/Setpoint

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HB2StartMode	X,3	696		2	Start Mode HB2: (See list for HB1)
HeatingSettings.Cor_HB3StartMode	X,3	697		3	Start Mode HB3: (See list for HB1)
HeatingSettings.Cor_HB4StartMode	X,3	698		4	Start Mode HB4: (See list for HB1)
HeatingSettings.Cor_HBCurve_X1	I,3	699		-20°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB1
HeatingSettings.Cor_HBCurve_X2	I,3	700		-15°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB2
HeatingSettings.Cor_HBCurve_X3	I,3	701		-10°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB3
HeatingSettings.Cor_HBCurve_X4	I,3	702		-5°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB4
HeatingSettings.Cor_HBCurve_X5	I,3	703		0°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB5
HeatingSettings.Cor_HBCurve_X6	I,3	704		5°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB6
HeatingSettings.Cor_HBCurve_X7	I,3	705		10°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB7
HeatingSettings.Cor_HBCurve_X8	I,3	706		15°C	Outdoortemp for first curvepoint for outdoor compensated set-point HB8
HeatingSettings.Cor_HBCurve_Y1	I,3	707		67°C	Setpoint for first curvepoint for outdoor compensated setpoint HB1
HeatingSettings.Cor_HBCurve_Y2	I,3	708		63°C	Setpoint for first curvepoint for outdoor compensated setpoint HB2
HeatingSettings.Cor_HBCurve_Y3	I,3	709		59°C	Setpoint for first curvepoint for outdoor compensated setpoint HB3
HeatingSettings.Cor_HBCurve_Y4	I,3	710		55°C	Setpoint for first curvepoint for outdoor compensated setpoint HB4
HeatingSettings.Cor_HBCurve_Y5	I,3	711		53°C	Setpoint for first curvepoint for outdoor compensated setpoint HB5
HeatingSettings.Cor_HBCurve_Y6	I,3	712		43°C	Setpoint for first curvepoint for outdoor compensated setpoint HB6
HeatingSettings.Cor_HBCurve_Y7	I,3	713		35°C	Setpoint for first curvepoint for outdoor compensated setpoint HB7

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HBCurve_Y8	I,3	714		25°C	Setpoint for first curvepoint for outdoor compensated setpoint HB8
HeatingSettings.Cor_BoilerSetPCtrl	X,3	715		0	Type of HB setpoint: 0 = Constant setpoint 1 = HS depending 2 = HS & HW depending 3 = HS & HP depending 4 = HS & HW & HP depending 5 = Outdoor comp. setp.
HeatingSettings.Cor_BoilerReturnTempLow	R,3	716		30	If boiler return temp is lower, block the supply valves
HeatingSettings.Cor_BoilerReturnTempHyst	R,3	717		5	Hysteresis when supply valves is blocked before open
HeatingActual.Cor_HBSupplyTemp	R,4	394	AV, 40394		Boiler supply temperature
HeatingActual.Cor_HB1ReturnTemp(0)	R,4	395	AV, 40395		Return temperature Boiler 1
HeatingActual.Cor_HB2ReturnTemp	R,4	396	AV, 40396		Return temperature Boiler 2
HeatingActual.Cor_HB3ReturnTemp	R,4	397	AV, 40397		Return temperature Boiler 3
HeatingActual.Cor_HB4ReturnTemp	R,4	398	AV, 40398		Return temperature Boiler 4
HeatingActual.Cor_HB1Vessel(0)	R,4	401			Control signal modulating boiler 1 (0-10 V)
HeatingActual.Cor_HB2Vessel	R,4	402			Control signal modulating boiler 2 (0-10 V)
HeatingActual.Cor_HB3Vessel	R,4	403			Control signal modulating boiler 3 (0-10 V)
HeatingActual.Cor_HB4Vessel	R,4	404			Control signal modulating boiler 4 (0-10 V)
HeatingActual.Cor_HBReturnTCV1(0)	R,4	405			Return temp CV boiler 1 (0-10 V)
HeatingActual.Cor_HBReturnTCV2	R,4	406			Return temp CV boiler 2 (0-10 V)
HeatingActual.Cor_HBReturnTCV3	R,4	407			Return temp CV boiler 3 (0-10 V)
HeatingActual.Cor_HBReturnTCV4	R,4	408			Return temp CV boiler 4 (0-10 V)
HeatingActual.Cor_HBPID_SetP	R,4	409	AV, 40409		HB Actual setpoint (HS depending or outdoor compensated)
HeatingActual.Cor_HBPID_Input	R,4	412	AV, 40412		Supply temperature HB

5.9 Extra circuit

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_ExtCircSensor1	R,4	399	AV, 40399		Extra control circuit Sensor 1
HeatingActual.Cor_ExtCircSensor2	R,4	400	AV, 40400		Extra control circuit Sensor 2
HeatingActual.Cor_ExtCircPumpStart	L,2	269	BV, 20269		Starting the Extra circuit pump
HeatingSettings.Cor_ExtCircHyst	R,3	734	AV, 30734	5	Start pump if S1 > S2 + Hyst. °C

5.10 Cooling system (CS1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_CS1_SetPoint	R,3	606	AV, 30606	17	Setpoint CS1
HeatingActual.Cor_CS1PID_Input	R,4	342	AV, 40342		Supply temperature CS1
HeatingActual.Cor_CS1PID_SetP	R,4	343	AV, 40343		Setpoint supply temperature CS1 dew point compensated
HeatingActual.Cor_CS1RoomTemp	R,4	344	AV, 40344		Room temperature CS1
HeatingActual.Cor_CS1ReturnTemp	R,4	345	AV, 40345		Return temperature CS1
HeatingActual.Cor_CS1PID_Output	R,4	348	AV, 40348		Controller output CS1 (0-100%)
HeatingActual.Cor_CS1CV1	R,4	349			Control signal CS1 CV (0-10 V)
HeatingActual.Cor_RH	R,4	357	AV, 40357		Humidity
HeatingActual.Cor_CS1PumpAStart	L,2	238			Start signal pump CS1 P1A
HeatingActual.Cor_CS1PumpBStart	L,2	239			Start signal pump CS1 P1B
HeatingActual.Cor_CS1PumpARun	L,2	240	BV, 20240		Is set if running pump CS1 P1A
HeatingActual.Cor_CS1PumpBRun	L,2	241	BV, 20241		Is set if running pump CS1 P1B
HeatingSettings.Cor_CS1PumpDayLimit(0)	R,3	604		17°C	Outdoor temp for pump stop day CS1
HeatingSettings.Cor_CS1PumpNightLimit(0)	R,3	605		17°C	Outdoor temp for pump stop night CS1
HeatingSettings.Cor_CS1ParallelTransfer	R,3	538		0 °C	Parallel adjustment of setpoint-curve CS1
HeatingSettings.Cor_CS1Curve_X1	I,3	539		20 °C	Outdoor temp for first curvepoint for outdoor compensated set-point CS1

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_CS1Curve_X2	I,3	540		22 °C	Outdoor temp for second curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_X3	I,3	541		24 °C	Outdoor temp for third curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_X4	I,3	542		26 °C	Outdoor temp for fourth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_X5	I,3	543		28 °C	Outdoor temp for fifth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_X6	I,3	544		30 °C	Outdoor temp for sixth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_X7	I,3	545		32 °C	Outdoor temp for seventh curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_X8	I,3	546		34 °C	Outdoor temp for eighth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y1	I,3	547		15 °C	Setpoint for first curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y2	I,3	548		14 °C	Setpoint for second curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y3	I,3	549		13 °C	Setpoint for third curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y4	I,3	550		12 °C	Setpoint for fourth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y5	I,3	551		12 °C	Setpoint for fifth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y6	I,3	552		11 °C	Setpoint for sixth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1Curve_Y7	I,3	553		10 °C	Setpoint for seventh curvepoint for outdoor compensated setpoint CS1

Actual/Setpoint

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_CS1Curve_Y8	I,3	554		9 °C	Setpoint for eighth curvepoint for outdoor compensated setpoint CS1
HeatingSettings.Cor_CS1RoomSetP	I,3	555		21 °C	Setpoint room temperature CS1
HeatingActual.Cor_DewpointTemp_Output	R,4	415			Calculated dewpoint temp.

5.11 Difference Pressure Control (DP)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_DP	R,4	19			Difference pressure (kPa)
HeatingSettings.Cor_DPSetpoint	R,3	60		50 kPa	Setpoint difference pressure
HeatingActual.Cor_FrequencyStart	L,2	111			Start signal Frequencer
HeatingActual.Cor_DPCV1	R,4	158			Control signal Frequncer (0-10 V)
HeatingActual.Cor_DPPID_Output	R,4	165	AV, 40165		Controller output Frequencer (0-100%)

5.12 Wind speed

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_Windspeed	R,4	20			Wind speed (m/s)
HeatingSettings.Cor_WindScale	R,3	61		1m/s/V	Scale factor for wind speed meter
HeatingSettings.Cor_HS1WindComp	R,3	62		0°C/m/s	Wind compensation HS1
HeatingSettings.Cor_HS2WindComp	R,3	63		0°C/m/s	Wind compensation HS2
HeatingSettings.Cor_HS3WindComp	R,3	64		0°C/m/s	Wind compensation HS3

6 Energy/Cold water

6.1 Heating Meter

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_EnergyConsumptionMWh	R,3	65			Energy total (MWh)
HeatingActual.Cor_WaterConsumptionm3	R,3	66			Hot water total (m3)
HeatingActual.Cor_EnergyConsumptionToday	R,4	21			Energy today (kWh)
HeatingActual.Cor_EnergyConsumptionYesterday	R,4	22			Energy yesterday (kWh)
HeatingActual.Cor_EnergyConsumptionBeforYesterday	R,4	23			Energy day before yesterday (kWh)
HeatingActual.Cor_WaterConsumptionToday	R,4	24			Usage today (l)
HeatingActual.Cor_WaterConsumptionYesterday	R,4	25			Usage yesterday (l)
HeatingActual.Cor_WaterConsumptionBeforYesterday	R,4	26			Usage day before yesterday (l)
HeatingActual.Cor_EnergyEffect	R,4	27			Power usage instant (kW)
HeatingActual.Cor_EnergyEffectAverage	R,4	28			Power usage average
HeatingActual.Cor_EnergyEffectAverageMax	R,4	29			Power usage max average

6.2 Cold Water Meter 1 (CW1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Description
HeatingActual.Cor_CW1Consumptionm3	R,3	67			Cold water 1 usage total (m3)
HeatingActual.Cor_CW1Flow	R,4	30			Cold water 1 flow (l/min)
HeatingActual.Cor_CW1ConsumptionToday	R,4	31			Cold water 1 usage today (m3)
HeatingActual.Cor_CW1ConsumptionYesterday	R,4	32			Cold water 1 usage yesterday (m3)
HeatingActual.Cor_CW1ConsumptionBeforYesterday	R,4	33			Cold water 1 usage day before yesterday (m3)
HeatingActual.Cor_CW1LowestConsumptionToday	R,4	34			Lowest cold water 1 usage today (l/h)
HeatingActual.Cor_CW1LowestConsumptionYesterday	R,4	35			Lowest cold water 1 usage yesterday (l/h)

6.3 Cold Water Meter 2 (CW2)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_CW2Consumptionm3	R,3	68			Cold water 2 usage total (m^3)
HeatingActual.Cor_CW2Flow	R,4	36			Cold water 2 flow (l/min)
HeatingActual.Cor_CW2ConsumptionToday	R,4	37			Cold water 2 usage today (m^3)
HeatingActual.Cor_CW2ConsumptionYesterday	R,4	38			Cold water 2 usage yesterday (m^3)
HeatingActual.Cor_CW2ConsumptionBeforYesterday	R,4	39			Cold water 2 usage day before yesterday (m3)
HeatingActual.Cor_CW2LowestConsumptionToday	R,4	40			Lowest cold water 2 usage today (l/h)
HeatingActual.Cor_CW2LowestConsumptionYesterday	R,4	41			Lowest cold water 2 usage yesterday (l/h)

6.4 Electricity Meter

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_ElectricConsumptionMWh	R,3	69			Energy total (MWh)

6.5 Leakage monitoring

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_Leak	R,4	42			Leakage power (kW)

6.6 District heat meter M-Bus

Signalbezeichnung	Typ	Modbus-Adresse	BAcnet	Default-Wert	Beschreibung
MeterDat.Pages(1).TempForw	R,4	367			Supply temperature (°C)
MeterDat.Pages(1).TempRet	R,4	368			Return Temperature (°C)
MeterDat.Pages(1).Energy	R,4	369			Energy (Mwh)
MeterDat.Pages(1).Power	R,4	370			Power (Kw)
MeterDat.Pages(1).Volume	R,4	371			Volume (m^3)
MeterDat.Pages(1).Flow	R,4	372			Flow (l/m)

6.7 Water meter 1 M-Bus

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
MeterDat.Pages(2).Volume	R,4	373			Volume (m^3)
MeterDat.Pages(2).Flow	R,4	374			Flow (l/m)

6.8 Water meter 2 M-Bus

Signalbezeichnung	Typ	Modbus-Adresse	BAcnet	Default-Wert	Beschreibung
MeterDat.Pages(3).Volume	R,4	375			Volume (m^3)
MeterDat.Pages(3).Flow	R,4	376			Flow (l/m)

7 Input/Output

7.1 Analogue inputs

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AnalogInput1(0)	R,4	43			The scaled and filtered value of AI1
HeatingActual.Cor_AnalogInput2	R,4	44			The scaled and filtered value of AI2
HeatingActual.Cor_AnalogInput3	R,4	45			The scaled and filtered value of AI3
HeatingActual.Cor_AnalogInput4	R,4	46			The scaled and filtered value of AI4
HeatingSettings.Cor_Ai1(0)	X,4	51			Connected signal on AI1: 0 = Disable 1 = Outdoor temp 2 = HS1 Supply Temperature 3 = HS2 Supply Temperature 4 = HS3 Supply Temperature 5 = CS1 Supply Temperature 6 = HW1 Supply Temperature 7 = HW2 Supply Temperature 8 = HP1 Supply Temperature 9 = HS1 Room Temperature 10 = HS2 Room Temperature 11 = HS3 Room Temperature 12 = CS1 Room Temperature1 = PT1000 13 = CS1 Room Temperature2 = 0-10V 14 = HS1 Return Temperature 15 = HS2 Return Temperature 16 = HS3 Return Temperature 17 = CS1 Return Temperature 18 = HW1 Return Temperature 19 = HP1 Return Temperature 20 = Windspeed 21 = Differential Pressure 22 = Boiler Temperature; Not Used in 3.2 23 = Boiler Return Temperature 24 = RH 25 = HP Supply Temperature 26 = HP Return Temperature 27 = CP Supply Temperature 28 = CP Return Temperature 29 = Extra sensor temp 1 30 = Extra sensor temp 2 31 = Extra sensor temp 3 32 = Extra sensor temp 4 33 = Extra sensor temp 5 34 = HB Supply Temp. 35 = HB1 Return Temp. 36 = HB2 Return Temp. 37 = HB3 Return Temp. 38 = HB4 Return Temp. 39 = Extra Circuit Sensor1 40 = Extra Circuit Sensor2

Input/Output

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_Ai2	X,4	52			Connected signal on AI2: (See signal list for AI1)
HeatingSettings.Cor_Ai3	X,4	53			Connected signal on AI3: (See signal list for AI1)
HeatingSettings.Cor_Ai4	X,4	54			Connected signal on AI4: (See signal list for AI1)
HeatingActual.Cor_ExpAnalogInput(0)	R,4	252			The scaled and filtered value of EXP1 AI1
HeatingActual.Cor_ExpAnalogInput(1)	R,4	253			The scaled and filtered value of EXP1 AI2
HeatingActual.Cor_ExpAnalogInput(2)	R,4	254			The scaled and filtered value of EXP1 AI3
HeatingActual.Cor_ExpAnalogInput(3)	R,4	255			The scaled and filtered value of EXP1 AI4
HeatingActual.Cor_ExpAnalogInput(8)	R,4	260			The scaled and filtered value of EXP2 AI1
HeatingActual.Cor_ExpAnalogInput(9)	R,4	261			The scaled and filtered value of EXP2 AI2
HeatingActual.Cor_ExpAnalogInput(10)	R,4	262			The scaled and filtered value of EXP2 AI13
HeatingActual.Cor_ExpAnalogInput(11)	R,4	263			The scaled and filtered value of EXP2 AI4
HeatingSettings.Cor_ExpAi(0)	X,4	268			Connected signal on EXP1 AI1: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(1)	X,4	269			Connected signal on EXP1 AI2: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(2)	X,4	270			Connected signal on EXP1 AI3: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(3)	X,4	271			Connected signal on EXP1 AI4: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(8)	X,4	276			Connected signal on EXP2 AI1: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(9)	X,4	277			Connected signal on EXP2 AI2: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(10)	X,4	278			Connected signal on EXP2 AI3: (See signal list for AI1)
HeatingSettings.Cor_ExpAi(11)	X,4	279			Connected signal on EXP2 AI4: (See signal list for AI1)

7.2 Digital inputs

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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
InputOutput.Exp1DigIn1	L,2	199			Value of EXP1 DI1
InputOutput.Exp1DigIn2	L,2	200			Value of EXP1 DI2
InputOutput.Exp1DigIn3	L,2	201			Value of EXP1 DI3
InputOutput.Exp1DigIn4	L,2	202			Value of EXP1 DI4
InputOutput.Exp1DigIn5	L,2	203			Value of EXP1 DI5
InputOutput.Exp1DigIn6	L,2	204			Value of EXP1 DI6
InputOutput.Exp1DigIn7	L,2	205			Value of EXP1 DI7
InputOutput.Exp1DigIn8	L,2	206			Value of EXP1 DI8
InputOutput.Exp2DigIn1	L,2	218			Value of EXP2 DI1
InputOutput.Exp2DigIn2	L,2	219			Value of EXP2 DI2
InputOutput.Exp2DigIn3	L,2	220			Value of EXP2 DI3
InputOutput.Exp2DigIn4	L,2	221			Value of EXP2 DI4
InputOutput.Exp2DigIn5	L,2	222			Value of EXP2 DI5
InputOutput.Exp2DigIn6	L,2	223			Value of EXP2 DI6
InputOutput.Exp2DigIn7	L,2	224			Value of EXP2 DI7
InputOutput.Exp2DigIn8	L,2	225			Value of EXP2 DI8

Input/Output

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_Di1(0)	X,4	59			Connected signal on DI1: 0 = Disable 1 = HS1 PumpA 2 = HS1 PumpB 3 = HS2 PumpA 4 = HS2 PumpB 5 = HS3 PumpA 6 = HS3 PumpB 7 = CS1 PumpA 8 = CS1 PumpB 9 = HW1 Pump 10 = HP1 Pump 11 = Frequency 12 = Expansion Vessel 13 = External Alarm 14 = Boiler Alarm 15 = External Effectlimit 16 = Water Pulse 17 = Energy Pulse 18 = CW1 Pulse 19 = CW2 Pulse 20 = Electric Pulse 21 = CS1 Start 22 = HB1 23 = HB2 24 = HB3 25 = HB4 26 = HB1 Pump 27 = HB2 Pump 28 = HB3 Pump 29 = HB4 Pump 30 = Transport Pump 31 = HB External Stop 32 = Pressure 33 = Extra Circuit Pump
HeatingSettings.Cor_Di2	X,4	60			Connected signal on DI2: (See signal list for DI1)
HeatingSettings.Cor_Di3	X,4	61			Connected signal on DI3: (See signal list for DI1)
HeatingSettings.Cor_Di4	X,4	62			Connected signal on DI4: (See signal list for DI1)
HeatingSettings.Cor_Di5	X,4	63			Connected signal on DI5: (See signal list for DI1)
HeatingSettings.Cor_Di6	X,4	64			Connected signal on DI6: (See signal list for DI1)
HeatingSettings.Cor_Di7	X,4	65			Connected signal on DI7: (See signal list for DI1)
HeatingSettings.Cor_Di8	X,4	66			Connected signal on DI8:
HeatingSettings.Cor_ExpDi(0)	X,4	284			Connected signal on EXP1 DI1:
HeatingSettings.Cor_ExpDi(1)	X,4	285			Connected signal on EXP1 DI2:
HeatingSettings.Cor_ExpDi(2)	X,4	286			Connected signal on EXP1 DI3:
HeatingSettings.Cor_ExpDi(3)	X,4	287			Connected signal on EXP1 DI4:

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_ExpDi(4)	X,4	288			Connected signal on EXP1 DI5:
HeatingSettings.Cor_ExpDi(5)	X,4	289			Connected signal on EXP1 DI6:
HeatingSettings.Cor_ExpDi(6)	X,4	290			Connected signal on EXP1 DI7:
HeatingSettings.Cor_ExpDi(7)	X,4	291			Connected signal on EXP1 DI8:
HeatingSettings.Cor_ExpDi(12)	X,4	296			Connected signal on EXP2DI1:
HeatingSettings.Cor_ExpDi(13)	X,4	297			Connected signal on EXP2DI2:
HeatingSettings.Cor_ExpDi(14)	X,4	298			Connected signal on EXP2DI3:
HeatingSettings.Cor_ExpDi(15)	X,4	299			Connected signal on EXP2DI4:
HeatingSettings.Cor_ExpDi(16)	X,4	300			Connected signal on EXP2DI5:
HeatingSettings.Cor_ExpDi(17)	X,4	301			Connected signal on EXP2DI6:
HeatingSettings.Cor_ExpDi(18)	X,4	302			Connected signal on EXP2DI7:
HeatingSettings.Cor_ExpDi(19)	X,4	303			Connected signal on EXP2DI8:

7.3 Universal inputs

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AnalogInput5	R,4	47			The scaled and filtered value of UAI1
HeatingActual.Cor_AnalogInput6	R,4	48			The scaled and filtered value of UAI2
HeatingActual.Cor_AnalogInput7	R,4	49			The scaled and filtered value of UAI3
HeatingActual.Cor_AnalogInput8	R,4	50			The scaled and filtered value of UAI4
HeatingActual.Cor_ExpAnalogInput(4)	R,4	256			The scaled and filtered value of EXP1 UAI1
HeatingActual.Cor_ExpAnalogInput(5)	R,4	257			The scaled and filtered value of EXP1 UAI2
HeatingActual.Cor_ExpAnalogInput(6)	R,4	258			The scaled and filtered value of EXP1 UAI3
HeatingActual.Cor_ExpAnalogInput(7)	R,4	259			The scaled and filtered value of EXP1 UAI4
HeatingActual.Cor_ExpAnalogInput(12)	R,4	264			The scaled and filtered value of EXP2 UAI2
HeatingActual.Cor_ExpAnalogInput(13)	R,4	265			The scaled and filtered value of EXP2 UAI3
HeatingActual.Cor_ExpAnalogInput(14)	R,4	266			The scaled and filtered value of EXP2 UAI4
HeatingActual.Cor_ExpAnalogInput(15)		267			The scaled and filtered value of EXP2 UAI5

Input/Output

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_UAi1	X,4	55			Connected signal on UAI1: 0 = Disable 1 = OutDoorTemp 2 = HS1 Supply Temperature 3 = HS2 Supply Temperature 4 = HS3 Supply Temperature 5 = CS1 Supply Temperature 6 = HW1 Supply Temperature 7 = HW2 Supply Temperature 8 = HP1 Supply Temperature 9 = HS1 Room Temperature 10 = HS2 Room Temperature 11 = HS3 Room Temperature 12 = CS1 Room Temperature1 = PT1000 13 = CS1 Room Temperature2 = 0-10V 14 = HS1 Return Temperature 15 = HS2 Return Temperature 16 = HS3 Return Temperature 17 = CS1 Return Temperature 18 = HW1 Return Temperature 19 = HP1 Return Temperature 20 = Windspeed 21 = Differential Pressure 22 = Boiler Temperature; Not Used in 3.2 23 = Boiler Return Temperature 24 = RH 25 = HP Supply Temperature 26 = HP Return Temperature 27 = CP Supply Temperature 28 = CP Return Temperature 29 = Extra sensor temp 1 30 = Extra sensor temp 2 31 = Extra sensor temp 3 32 = Extra sensor temp 4 33 = Extra sensor temp 5 34 = HB Supply Temp. 35 = HB1 Return Temp. 36 = HB2 Return Temp. 37 = HB3 Return Temp. 38 = HB4 Return Temp. 39 = Extra Circuit Sensor1 40 = Extra Circuit Sensor2
HeatingSettings.Cor_UAi2	X,4	56			Connected signal on UAI2: (See signal list for UAI1)
HeatingSettings.Cor_UAi3	X,4	57			Connected signal on UAI3: (See signal list for UAI1)
HeatingSettings.Cor_UAi4	X,4	58			Connected signal on UAI4: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(4)	X,4	272			Connected signal on EXP1 UAI1: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(5)	X,4	273			Connected signal on EXP1 UAI2: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(6)	X,4	274			Connected signal on EXP1 UAI3: (See signal list for UAI1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_ExpAi(7)	X,4	275			Connected signal on EXP1 UAI4: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(12)	X,4	280			Connected signal on EXP2 UAI1: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(13)	X,4	281			Connected signal on EXP2 UAI2: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(14)	X,4	282			Connected signal on EXP2 UAI3: (See signal list for UAI1)
HeatingSettings.Cor_ExpAi(15)	X,4	283			Connected signal on EXP2 UAI4: (See signal list for UAI1)
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
InputOutput.Exp1DigIn9	L,2	207			Value of EXP1 UDI1
InputOutput.Exp1DigIn10	L,2	208			Value of EXP1 UDI2
InputOutput.Exp1DigIn11	L,2	209			Value of EXP1 UDI3
InputOutput.Exp1DigIn12	L,2	210			Value of EXP1 UDI4
InputOutput.Exp2DigIn9	L,2	226			Value of EXP2 UDI1
InputOutput.Exp2DigIn10	L,2	227			Value of EXP2 UDI2
InputOutput.Exp2DigIn11	L,2	228			Value of EXP2 UDI3
InputOutput.Exp2DigIn12	L,2	229			Value of EXP2 UDI4

Input/Output

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_UDi1	X,4	67			Connected signal on UDI1: 0 = Disable 1 = HS1 PumpA 2 = HS1 PumpB 3 = HS2 PumpA 4 = HS2 PumpB 5 = HS3 PumpA 6 = HS3 PumpB 7 = CS1 PumpA 8 = CS1 PumpB 9 = HW1 Pump 10 = HP1 Pump 11 = Frequency 12 = Expansion Vessel 13 = External Alarm 14 = Boiler Alarm 15 = External Effectlimit 16 = Water Pulse 17 = Energy Pulse 18 = CW1 Pulse 19 = CW2 Pulse 20 = Electric Pulse 21 = CS1 Start 22 = HB1 23 = HB2 24 = HB3 25 = HB4 26 = HB1 Pump 27 = HB2 Pump 28 = HB3 Pump 29 = HB4 Pump 30 = Transport Pump 31 = HB External Stop 32 = Pressure 33 = Extra Circuit Pump
HeatingSettings.Cor_UDi2	X,4	68			Connected signal on UDI2: (See signal list for UDI1)
HeatingSettings.Cor_UDi3	X,4	69			Connected signal on UDI3: (See signal list for UDI1)
HeatingSettings.Cor_UDi4	X,4	70			Connected signal on UDI4: (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(8)	X,4	292			Connected signal on EXP1 DI1: (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(9)	X,4	293			Connected signal on EXP1 DI2: (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(10)	X,4	294			Connected signal on EXP1 DI3: (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(11)	X,4	295			Connected signal on EXP1 DI4: (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(20)	X,4	304			Connected signal on EXP2 UDI1 (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(21)	X,4	305			Connected signal on EXP2 UDI2 (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(22)	X,4	306			Connected signal on EXP2 UDI3 (See signal list for UDI1)
HeatingSettings.Cor_ExpDi(23)	X,4	307			Connected signal on EXP2 UDI4 (See signal list for UDI1)

7.4 Analogue outputs

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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
InputOutput.Exp1AnaOut1	R,4	308			Value of EXP1 AO1
InputOutput.Exp1AnaOut2	R,4	309			Value of EXP1 AO2
InputOutput.Exp1AnaOut3	R,4	310			Value of EXP1 AO3
InputOutput.Exp1AnaOut4	R,4	311			Value of EXP1 AO4
InputOutput.Exp1AnaOut5	R,4	312			Value of EXP1 AO5
InputOutput.Exp2AnaOut1	R,4	313			Value of EXP2 AO1
InputOutput.Exp2AnaOut2	R,4	314			Value of EXP2 AO2
InputOutput.Exp2AnaOut3	R,4	315			Value of EXP2 AO3
InputOutput.Exp2AnaOut4	R,4	316			Value of EXP2 AO4
InputOutput.Exp2AnaOut5	R,4	317			Value of EXP2 AO5
HeatingSettings.Cor_Ao1(0)	X,4	76			Connected signal on AO1: 0 = Not used 1 = HS1 Actuator 2 = HS2 Actuator 3 = HS3 Actuator 4 = CS1 Actuator 5 = HW1 Actuator 6 = HW2 Actuator 7 = Pressure Act. 8 = Sequence control of configured valve HS1-HP1 9 = Boiler 1 (Vessle 1 = modulating control) 10 = Boiler 2 (Vessle 2 = modulating control) 11 = Boiler 3 (Vessle 3 = modulating control) 12 = Boiler 4 (Vessle 4 = modulating control) 13 = Boiler 1 return valve 14 = Boiler 2 return valve 15 = Boiler 3 return valve 16 = Boiler 4 return valve
HeatingSettings.Cor_Ao2	X,4	77			Connected signal on AO2: (See signal list for AO1)
HeatingSettings.Cor_Ao3	X,4	78			Connected signal on AO3: (See signal list for AIO)
HeatingSettings.Cor_Ao4	X,4	79			Connected signal on AO4: (See signal list for AO1)

Input/Output

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_Ao5	X,4	80			Connected signal on AO5: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(0)	X,4	318			Connected signal on EXP1 AO1: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(1)	X,4	319			Connected signal on EXP1 AO2: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(2)	X,4	320			Connected signal on EXP1 AO3: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(3)	X,4	321			Connected signal on EXP1 AO4: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(4)	X,4	322			Connected signal on EXP1 AO5: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(5)	X,4	323			Connected signal on EXP2 AO1: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(6)	X,4	324			Connected signal on EXP2 AO2: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(7)	X,4	325			Connected signal on EXP2 AO3: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(8)	X,4	326			Connected signal on EXP2 AO4: (See signal list for AO1)
HeatingSettings.Cor_ExpAo(9)	X,4	327			Connected signal on EXP2 AO5: (See signal list for AO1)

7.5 Digital outputs

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.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 = Start pump A CS1 8 = Start pump B CS1 9 = HW1-Pump 10 = HP1-Pump 11 = Frequencer 12 = Start1 Boiler (Not used 3.2) 13 = Start2 Boiler (Not used 3.2) 14 = Sum alarm 15 = A-sum alarm 16 = B + C-sum alarm 17 = Timer1 18 = Timer2 19 = Timer3 20 = Timer4 21 = Timer5 22 = Inc HS1-Act. 23 = Dec HS1-Act. 24 = Inc HS2-Act. 25 = Dec HS2-Act. 26 = Inc HS3-Act. 27 = Dec HS3-Act. 28 = Inc CS1-Act. 29 = Dec CS1-Act. 30 = Inc HW1-Act. 31 = Dec HW1-Act. 32 = Inc HW2-Act. 33 = Dec HW2-Act. 34 = Bypass CS1-CV1 35 = Start Cooling Unit 36 = HB1 Start Low 37 = HB1 Start High 38 = HB2 Start Low 39 = HB2 Start High
HeatingSettings.Cor_Do1(0)	X,4	81			40 = HB3 Start Low 41 = HB3 Start High 42 = HB4 Start Low 43 = HB4 Start High 44 = HB1 Pump Start 45 = HB2 Pump Start 46 = HB3 Pump Start 47 = HB4 Pump Start 48 = Transport Pump Start 49 = Extra Circuit Pump Start
HeatingSettings.Cor_Do2	X,4	82			Connected signal on DO2: (See signal list for DO1)
HeatingSettings.Cor_Do3	X,4	83			Connected signal on DO3: (See signal list for DO1)
HeatingSettings.Cor_Do4	X,4	84			Connected signal on DO4: (See signal list for DO1)
HeatingSettings.Cor_Do5	X,4	85			Connected signal on DO5: (See signal list for DO1)

Input/Output

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_Do6	X,4	86			Connected signal on DO6: (See signal list for DO1)
HeatingSettings.Cor_Do7	X,4	87			Connected signal on DO7: (See signal list for DO1)
InputOutput.Exp1DigOut1	L,2	211			Value of EXP1 DO1
InputOutput.Exp1DigOut2	L,2	212			Value of EXP1 DO2
InputOutput.Exp1DigOut3	L,2	213			Value of EXP1 DO3
InputOutput.Exp1DigOut4	L,2	214			Value of EXP1 DO4
InputOutput.Exp1DigOut5	L,2	215			Value of EXP1 DO5
InputOutput.Exp1DigOut6	L,2	216			Value of EXP1 DO6
InputOutput.Exp1DigOut7	L,2	217			Value of EXP1 DO7
InputOutput.Exp2DigOut1	L,2	230			Value of EXP2 DO1
InputOutput.Exp2DigOut2	L,2	231			Value of EXP2 DO2
InputOutput.Exp2DigOut3	L,2	232			Value of EXP2 DO3
InputOutput.Exp2DigOut4	L,2	233			Value of EXP2 DO4
InputOutput.Exp2DigOut5	L,2	234			Value of EXP2 DO5
InputOutput.Exp2DigOut6	L,2	235			Value of EXP2 DO6
InputOutput.Exp2DigOut7	L,2	236			Value of EXP2 DO7
HeatingSettings.Cor_ExpDo(0)	X,4	328			Connected signal on EXP1 DO1: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(1)	X,4	329			Connected signal on EXP1 DO2: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(2)	X,4	330			Connected signal on EXP1 DO3: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(3)	X,4	331			Connected signal on EXP1 DO4: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(4)	X,4	332			Connected signal on EXP1 DO5: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(5)	X,4	333			Connected signal on EXP1 DO6: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(6)	X,4	334			Connected signal on EXP1 DO7: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(7)	X,4	335			Connected signal on EXP2 DO1: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(8)	X,4	336			Connected signal on EXP2 DO2: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(9)	X,4	337			Connected signal on EXP2 DO3: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(10)	X,4	338			Connected signal on EXP2 DO4: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(11)	X,4	339			Connected signal on EXP2 DO5: (See signal list for DO1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_ExpDo(12)	X,4	340			Connected signal on EXP2 DO6: (See signal list for DO1)
HeatingSettings.Cor_ExpDo(13)	X,4	341			Connected signal on EXP2 DO7: (See signal list for DO1)

8 Time Settings

8.1 HS1 Night Setback and Comfort Time

Signalbeschreibung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS1NightSetbackOn	L,1	1		0	Night setback HS1 0=off, 1=on
HeatingSettings.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

Time Settings

Signalbeschreibung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.2 HS2 Night Setback and Comfort Time

Signalbeschreibung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS2NightSetbackOn	L,1	2		0	Night setback HS2 0=off, 1=on
HeatingSettings.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

Signalbeschreibung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.3 HS3 Night Setback and Comfort Time

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS3NightSetbackOn	L,1	3		0	Night setback HS3 0=off, 1=on
HeatingSettings.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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.4 HWC1 Night Setback and Comfort Time

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HW1NightSetbackOn	L,1	4		0	Night setback HW1 0=off, 1=on
HeatingSettings.Cor_HW1NightSetback	R,3	169		5°C	Number of degrees night setback HW1
HeatingSettings.Cor_HW1PumpStop	L,1	5		0	Activate pump stop HW1 when night set-back 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

Time Settings

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.5 HWC2 Night Setback and Comfort Time

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HW2NightSetbackOn	L,1	6		0	Night setback HW2 0=off, 1=on
HeatingSettings.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

Time Settings

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.6 CS1 Night Setback and Comfort Time

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_CS1NightSetbackOn	L,1	7		0	Night setback CS1 0=off, 1=on
HeatingSettings.Cor_CS1NightSetback	R,3	556		5°C	Number of room-degrees night setback CS1
TimeDp.Posts(24).T1	R,3	557		7	Start time per 1 Monday comfort time CS1 (HH.MM)
TimeDp.Posts(24).T2	R,3	558		16	Stop time per 1 Monday comfort time CS1
TimeDp.Posts(24).T3	R,3	559		0	Start time per 2 Monday comfort time CS1
TimeDp.Posts(24).T4	R,3	560		0	Stop time per 2 Monday comfort time CS1
TimeDp.Posts(25).T1	R,3	561		7	Start time per 1 Tuesday comfort time CS1
TimeDp.Posts(25).T2	R,3	562		16	Stop time per 1 Tuesday comfort time CS1
TimeDp.Posts(25).T3	R,3	563		0	Start time per 2 Tuesday comfort time CS1
TimeDp.Posts(25).T4	R,3	564		0	Stop time per 2 Tuesday comfort time CS1
TimeDp.Posts(26).T1	R,3	565		7	Start time per 1 Wedn. comfort time CS1
TimeDp.Posts(26).T2	R,3	566		16	Stop time per 1 Wedn. comfort time CS1

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
TimeDp.Posts(26).T3	R,3	567		0	Start time per 2 Wedn. comfort time CS1
TimeDp.Posts(26).T4	R,3	568		0	Stop time per 2 Wedn. comfort time CS1
TimeDp.Posts(27).T1	R,3	569		7	Start time per 1 Thursday comfort time CS1
TimeDp.Posts(27).T2	R,3	570		16	Stop time per 1 Thursday comfort time CS1
TimeDp.Posts(27).T3	R,3	571		0	Start time per 2 Thursday comfort time CS1
TimeDp.Posts(27).T4	R,3	572		0	Stop time per 2 Thursday comfort time CS1
TimeDp.Posts(28).T1	R,3	573		7	Start time per 1 Friday comfort time CS1
TimeDp.Posts(28).T2	R,3	574		16	Stop time per 1 Friday comfort time CS1
TimeDp.Posts(28).T3	R,3	575		0	Start time per 2 Friday comfort time CS1
TimeDp.Posts(28).T4	R,3	576		0	Stop time per 2 Friday comfort time CS1
TimeDp.Posts(29).T1	R,3	577		0	Start time per 1 Saturday comfort time CS1
TimeDp.Posts(29).T2	R,3	578		0	Stop time per 1 Saturday comfort time CS1
TimeDp.Posts(29).T3	R,3	579		0,	Start time per 2 Saturday comfort time CS1
TimeDp.Posts(29).T4	R,3	580		0	Stop time per 2 Saturday comfort time CS1
TimeDp.Posts(30).T1	R,3	581		0	Start time per 1 Sunday comfort time CS1
TimeDp.Posts(30).T2	R,3	582		0	Stop time per 1 Sunday comfort time CS1
TimeDp.Posts(30).T3	R,3	583		0	Start time per 2 Sunday comfort time CS1
TimeDp.Posts(30).T4	R,3	584		0	Stop time per 2 Sunday comfort time CS1
TimeDp.Posts(31).T1	R,3	585		0	Start time per 1 Holiday comfort time CS1
TimeDp.Posts(31).T2	R,3	586		0	Stop time per 1 Holiday comfort time CS1
TimeDp.Posts(31).T3	R,3	587		0	Start time per 2 Holiday comfort time CS1
TimeDp.Posts(31).T4	R,3	588		0	Stop time per 2 Holiday comfort time CS1

8.7 Timer output 1

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.8 Timer output 2

Signalbezeichnung	Typ	Modbus-Adresse	BAcnet	Default-Wert	Beschreibung
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

Time Settings

Signalbezeichnung	Typ	Modbus-Adresse	BAcnet	Default-Wert	Beschreibung
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

8.9 Timer output 3

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Time Settings

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.10 Timer output 4

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.11 Timer output 5

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Time Settings

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

8.12 Holidays

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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)

Time Settings

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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)

8.13 Real Time Clock

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

9 Settings

9.1 Control temp

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS1PID_PGain	R,3	443		100°C	P-band supply HS1 control
HeatingSettings.Cor_HS1PID_ITime	R,3	444		100 s	I-time supply HS1 control
HeatingSettings.Cor_HS2PID_PGain	R,3	445		100°C	P-band supply HS2 control
HeatingSettings.Cor_HS2PID_ITime	R,3	446		100 s	I-time supply HS2 control
HeatingSettings.Cor_HS3PID_PGain	R,3	447		100°C	P-band supply HS3 control
HeatingSettings.Cor_HS3PID_ITime	R,3	448		100 s	I-time supply HS3 control
HeatingSettings.Cor_HW1PID_PGain	R,3	449		25°C	P-band shutdown mode HWC1
HeatingSettings.Cor_HW1PID_ITime	R,3	450		75°C	I-time shutdown mode HWC1
HeatingSettings.Cor_HW2PID_PGain	R,3	451		25°C	P-band shutdown mode HWC2
HeatingSettings.Cor_HW2PID_ITime	R,3	452		75°C	I-time shutdown mode HWC2
HeatingSettings.Cor_HS1RetPID_Pgain	R,3	595		100°C	P-band HS1 Return temp.
HeatingSettings.Cor_HS1RetPID_Itime	R,3	596		100 s	I-time HS1 Return temp.
HeatingSettings.Cor_HS2RetPID_Pgain	R,3	597		100°C	P-band HS2 Return temp.
HeatingSettings.Cor_HS2RetPID_ITime	R,3	598		100 s	I-time HS2 Return temp.
HeatingSettings.Cor_CS1PID_Pgain	R,3	599		20°C	P-band supply CS1 control
HeatingSettings.Cor_CS1PID_ITime	R,3	600		60 s	I-time supply CS1 control
HeatingSettings.Cor_HBPID_Pgain	R,3	656		10°C	P-band shutdown mode HB
HeatingSettings.Cor_HBPID_Itime	R,3	657		5 s	I-time shutdown mode HB
HeatingSettings.Cor_HB1ReturnTempPband	R,3	727		10°C	P-band Return temp HB1 control
HeatingSettings.Cor_HB2ReturnTempPband	R,3	728		10°C	P-band Return temp HB2 control
HeatingSettings.Cor_HB3ReturnTempPband	R,3	729		10°C	P-band Return temp HB3 control
HeatingSettings.Cor_HB4ReturnTempPband	R,3	730		10°C	P-band Return temp HB4 control

9.2 Control pressure (DP)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_DPPID_PGain	R,3	453		25 kPa	P-band pressure control DP
HeatingSettings.Cor_DPPID_ITime	R,3	454		100 s	I-time pressure control DP
HeatingSettings.Cor_DPPID_MinOutput	R,3	455		0 kPa	Min. output pressure control DP

9.3 Alarm limits

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS1MaxDiff(0)	R,3	456		20 °C	Max control deviation supply temp HS1
HeatingSettings.Cor_HS2MaxDiff	R,3	457		20 °C	Max control deviation supply temp HS2
HeatingSettings.Cor_HS3MaxDiff	R,3	458		20 °C	Max control deviation supply temp HS3
HeatingSettings.Cor_HW1MaxDiff	R,3	459		20 °C	Max control deviation supply temp HW1
HeatingSettings.Cor_HW2MaxDiff	R,3	460		20 °C	Max control deviation supply temp HW2
HeatingSettings.Cor_CS1MaxDiff	R,3	603		20 °C	Max Control deviation supply temp CS1
HeatingSettings.Cor_HW1HighTemp	R,3	461		65 °C	Scalding HWC1
HeatingSettings.Cor_HW2HighTemp	R,3	462		65 °C	Scalding HWC2
HeatingSettings.Cor_BoilerHighTemp	R,3	463		70 °C	High boiler temperature
HeatingSettings.Cor_BoilerLowTemp	R,3	464		30 °C	Low boiler temperature
HeatingSettings.Cor_WaterConsumptionMax	R,3	465		10000 l	High 24h water usage
HeatingSettings.Cor_WaterLowestConsumptionYesterdayMax	R,3	466		10000 l	High 1h water usage
HeatingSettings.Cor_EnergyConsumptionMax	R,3	467		10000k Wh	High 24h energy usage
HeatingSettings.Cor_WaterPulseTimeMax	R,3	468		0 min	Max time between volume pulse
HeatingSettings.Cor_EnergyPulseTimeMax	R,3	469		0 min	Max time between energy pulse
HeatingSettings.Cor_CW1PulseTimeMax	R,3	470		0 min	Max time between cold water puls 1
HeatingSettings.Cor_CW2PulseTimeMax	R,3	471		0 min	Max time between cold water puls 2
HeatingSettings.Cor_LeakHighLimit	R,3	472		3 kW	Permitted leakage

9.4 Alarm delays

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
AlaData.AlaPt13_DelayValue	I,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 s	Alarm delay scalding HWC1
AlaData.AlaPt20_DelayValue	I,3	479		300 s	Alarm delay scalding HWC2
AlaData.AlaPt21_DelayValue	I,3	480		0 s	Alarm delay high boiler temp
AlaData.AlaPt22_DelayValue	I,3	481		0 s	Alarm delay low boiler temp
AlaData.AlaPt10_DelayValue	I,3	482		60 s	Alarm delay expansion vessel
AlaData.AlaPt11_DelayValue	I,3	483		0 s	Alarm delay external alarm

10 Manual/Auto

10.1 Manual/Auto

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS1PID_Select	X,3	484		2	Manual/Auto HS1: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS1PID_ManSet	R,3	485		0 %	HS1 Supply temp controller output if Manual-On mode
HeatingSettings.Cor_HS2PID_Select	X,3	486		2	Manual/Auto HS2: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS2PID_ManSet	R,3	487		0 %	HS2 Supply temp controller output if Manual-On mode
HeatingSettings.Cor_HS3PID_Select	X,3	488		2	Manual/Auto HS3: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS3PID_ManSet	R,3	489		0 %	HS3 Supply temp controller output if Manual-On mode
HeatingSettings.Cor_HW1PID_Select	X,3	490		2	Manual/Auto HWC1: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HW1PID_ManSet	R,3	491		0 %	HWC1 Supply temp controller output if Manual-On mode
HeatingSettings.Cor_HW2PID_Select	X,3	492		2	Manual/Auto HWC2: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HW2PID_ManSet	R,3	493		0 %	HWC2 Supply temp controller output if Manual-On mode
HeatingSettings.Cor_DPPID_Select	X,3	494		2	Manual/Auto Pressure control: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_DPPID_ManSet	R,3	495		0 %	Pressure controller output if Manual-On mode
HeatingSettings.Cor_HS1PumpAAutoMode(0)	X,3	497		2	Manual/Auto HS1 P1A: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS1PumpBAutoMode	X,3	498		2	Manual/Auto HS1 P1B: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS2PumpAAutoMode	X,3	499		2	Manual/Auto HS2 P1A: 0 = Manual-Off 1 = Manual-On 2 = Auto

Manual/Auto

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS2PumpBAutoMode	X,3	500		2	Manual/Auto HS2 P1B: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS3PumpAAutoMode	X,3	501		2	Manual/Auto HS3 P1A: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS3PumpBAutoMode	X,3	502		2	Manual/Auto HS3 P1B: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HW1PumpAutoMode	X,3	503		2	Manual/Auto HWC1: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HP1PumpAutoMode	X,3	504		2	Manual/Auto HP1: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_FrequencerAutoMode	X,3	505		2	Manual/Auto Frequency converter: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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_ExtraTime-Group1	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_ExtraTime-Group2	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_ExtraTime-Group3	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_ExtraTime-Group4	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_ExtraTime-Group5	X,3	517		4	Manual/Auto Timer output 5 0 = Manual-Off 1 = Manual-On 2 = Forced Off 3 = Forced On 4 = Auto
HeatingSettings.Cor_HS1RetPID_Select	X,3	589		2	Manual/Auto HS1 Return temp.: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HS1RetPID_ManSet	R,3	590		0	HS1 Return temp. controller output if Manual-On mode
HeatingSettings.Cor_HS2RetPID_Select	X,3	591		2	Manual/Auto HS2 Return temp.: 0 = Manual-Off 1 = Manual-On 2 = Auto

Manual/Auto

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HS2RetPID_ManSet	R,3	592		0	HS2 Return temp. controller output if Manual-On mode
HeatingSettings.Cor_CS1PID_Select	X,3	593		2	Manual/Auto CS1: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_CS1PID_ManSet	R,3	594		0	CS1 Supply temp controller output if Manual-On mode
HeatingSettings.Cor_CS1PumpAAutoMode	X,3	601		2	Manual/Auto CS1 P1A: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_CS1PumpBAutoMode	X,3	602		2	Manual/Auto CS1 P1B: 0 = Manual-Off 1 = Manual-On 2 = Auto
TimePro.TimeGroupStatusCS1	X,3	616		4	Manual/Auto Comfort time CS1 0 = Manual-Off 1 = Manual-On 2 = Forced Off 3 = Forced On 4 = Auto
HeatingSettings.Cor_PowerLimitPID_Select	X,3	618		2	Manual/Auto HS1 power limit.: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_PowerLimitPID_ManSet	R,3	619		0	HS1 power limit controller output if Manual-On mode
HeatingSettings.Cor_CS1CoolUnitAutoMode	X,3	622		2	Manual/Auto CS1 Cool Unit: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HBPID_Select	X,3	662		2	Manual/Auto HB: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HBPID_ManSet	R,3	663		0	HB controller output if Manual-On mode
HeatingSettings.Cor_HB1ReturnTemp_Select	X,3	664		2	Return temperature valve HB1: 0 = Manual-Off 1 = Manual-On 2 = Auto
HeatingSettings.Cor_HB1ReturnTemp_ManSet	R,3	665		0	HB1 return valve output if Manual-On mode
HeatingSettings.Cor_HB2ReturnTemp_Select	X,3	666		2	Return temperature valve HB2: (See list for HB1)
HeatingSettings.Cor_HB2ReturnTemp_ManSet	R,3	667		0	HB2 return valve output if Manual-On mode
HeatingSettings.Cor_HB3ReturnTemp_Select	X,3	668		2	Return temperature valve HB3: (See list for HB1)

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingSettings.Cor_HB3ReturnTemp_Man-Set	R,3	669		0	HB3 return valve output if Manual-On mode
HeatingSettings.Cor_HB4ReturnTemp_Select	X,3	670		2	Return temperature valve HB4: (See list for HB1)
HeatingSettings.Cor_HB4ReturnTemp_Man-Set	R,3	671		0	HB4 return valve output if Manual-On mode
HeatingSettings.Cor_HB1AutoMode(0)	X,3	718		3	Auto/Manual Boiler 1 0 = Off 1 = Start1 2 = Start1&2 3 = Auto
HeatingSettings.Cor_HB2AutoMode	X,3	719		3	Auto/Manual Boiler 2 0 = Off 1 = Start1 2 = Start1&2 3 = Auto
HeatingSettings.Cor_HB3AutoMode	X,3	720		3	Auto/Manual Boiler 3 0 = Off 1 = Start1 2 = Start1&2 3 = Auto
HeatingSettings.Cor_HB4AutoMode	X,3	721		3	Auto/Manual Boiler 4 0 = Off 1 = Start1 2 = Start1&2 3 = Auto
HeatingSettings.Cor_HBP1AutoMode	X,3	722		2	Auto/Manual Boiler pump 1 0 = Off 1 = Manual 2 = Auto
HeatingSettings.Cor_HBP2AutoMode	X,3	723		2	Auto/Manual Boiler pump 2 0 = Off 1 = Manual 2 = Auto
HeatingSettings.Cor_HBP3AutoMode	X,3	724		2	Auto/Manual Boiler pump 3 0 = Off 1 = Manual 2 = Auto
HeatingSettings.Cor_HBP4AutoMode	X,3	725		2	Auto/Manual Boiler pump 4 0 = Off 1 = Manual 2 = Auto
HeatingSettings.Cor_TPAutoMode	X,3	726		2	Auto/Manual Transport pump 0 = Off 1 = Manual 2 = Auto
HeatingSettings.Cor_ExtCircPumpAutoMode	X,3	733		2	Auto/Manual Extra circuit pump: 0 = Manual-Off 1 = Manual-On 2 = Auto

11 Alarm status

11.1 Alarm status

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Alarm status

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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
AlaData.AlaPt84_Status	X,4	185			Sensor error CS1 Supply
AlaData.AlaPt85_Status	X,4	186			Sensor error CS1 Return
AlaData.AlaPt86_Status	X,4	187			Sensor error HP Supply
AlaData.AlaPt87_Status	X,4	188			Sensor error HP Return
AlaData.AlaPt88_Status	X,4	189			Sensor error CP Supply
AlaData.AlaPt89_Status	X,4	190			Sensor error CP Return
AlaData.AlaPt90_Status	X,4	191			Sensor error Extra sensor 1
AlaData.AlaPt91_Status	X,4	192			Sensor error Extra sensor 2
AlaData.AlaPt92_Status	X,4	193			Sensor error Extra sensor 3
AlaData.AlaPt93_Status	X,4	194			Sensor error Extra sensor 4
AlaData.AlaPt94_Status	X,4	195			Sensor error Extra sensor 5
AlaData.AlaPt95_Status	X,4	196			Sensor error Boiler supply

Alarm status

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
AlaData.AlaPt96_Status	X,4	197			Sensor error Boiler1 Return
AlaData.AlaPt97_Status	X,4	198			Sensor error Boiler2 Return
AlaData.AlaPt98_Status	X,4	199			Sensor error Boiler3 Return
AlaData.AlaPt99_Status	X,4	200			Sensor error Boiler4 Return
AlaData.AlaPt100_Status	X,4	201			Sensor error 1 Extra Circuit
AlaData.AlaPt101_Status	X,4	202			Sensor error 2 Extra Circuit
AlaData.AlaPt102_Status	X,4	203			Sensor error CS1 Room PT1000
AlaData.AlaPt103_Status	X,4	204			Sensor error CS1 Room 0-10V
AlaData.AlaPt106_Status	X,4	207			Deviation CS1
AlaData.AlaPt107_Status	X,4	208			CS1 manual
AlaData.AlaPt108_Status	X,4	209			CS1 Supply Max
AlaData.AlaPt109_Status	X,4	210			CS1 Supply Min
AlaData.AlaPt110_Status	X,4	211			CS1 Return Max
AlaData.AlaPt111_Status	X,4	212			CS1 Return Min
AlaData.AlaPt112_Status	X,4	213			Malfunction P1A-CS1
AlaData.AlaPt113_Status	X,4	214			Malfunction P1B-CS1
AlaData.AlaPt114_Status	X,4	215			Malfunction P1A&B-CS1
AlaData.AlaPt115_Status	X,4	216			P1A-CS1 manual
AlaData.AlaPt116_Status	X,4	217			P1B-CS1 manual
AlaData.AlaPt117_Status	X,4	218			Communication error Expansion unit 1
AlaData.AlaPt118_Status	X,4	219			Communication error Expansion unit 2
AlaData.AlaPt119_Status	X,4	220			Communication error M-bus DHM 1
AlaData.AlaPt120_Status	X,4	221			Communication error M-bus WM 1
AlaData.AlaPt121_Status	X,4	222			Communication error M-bus WM 2
AlaData.AlaPt122_Status	X,4	223			Low return temp HW1
AlaData.AlaPt123_Status	X,4	224			Pressure/Flow error
AlaData.AlaPt124_Status	X,4	225			Malfunction Boiler 1
AlaData.AlaPt125_Status	X,4	226			Malfunction Boiler 2
AlaData.AlaPt126_Status	X,4	227			Malfunction Boiler 3
AlaData.AlaPt127_Status	X,4	228			Malfunction Boiler 4
AlaData.AlaPt128_Status	X,4	229			Malf. Boilerpump 1
AlaData.AlaPt129_Status	X,4	230			Malf. Boilerpump 2
AlaData.AlaPt130_Status	X,4	231			Malf. Boilerpump 3
AlaData.AlaPt131_Status	X,4	232			Malf. Boilerpump 4

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
AlaData.AlaPt132_Status	X,4	233			Malf. transportpump
AlaData.AlaPt133_Status	X,4	234			Boiler 1 manual
AlaData.AlaPt134_Status	X,4	235			Boiler 2 manual
AlaData.AlaPt135_Status	X,4	236			Boiler 3 manual
AlaData.AlaPt136_Status	X,4	237			Boiler 4 manual
AlaData.AlaPt137_Status	X,4	238			Boilerpump 1 Manual
AlaData.AlaPt138_Status	X,4	239			Boilerpump 2 Manual
AlaData.AlaPt139_Status	X,4	240			Boilerpump 3 Manual
AlaData.AlaPt140_Status	X,4	241			Boilerpump 4 Manual
AlaData.AlaPt141_Status	X,4	242			Transportpump Manual
AlaData.AlaPt142_Status	X,4	243			Malfunction P1-Ext.Circ.
AlaData.AlaPt143_Status	X,4	244			P1-Ext.Circ. manual
AlaData.AlaPt144_Status	X,4	245			HW1 blocked for HS Priority
AlaData.AlaPt145_Status	X,4	246			HW2 blocked for HS Priority
AlaData.AlaPt146_Status	X,4	247			HP1 blocked for HS Priority
AlaData.AlaPt147_Status	X,4	248			HS1 blocked for HW Priority
AlaData.AlaPt148_Status	X,4	249			HS2 blocked for HW Priority
AlaData.AlaPt149_Status	X,4	250			HS3 blocked for HW Priority

11.2 Alarm points

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(1)	L,2	38	BV, 20038		Modbus Malfunction P1A-HS1: 0=No alarm 1=Alarm BACnet Malfunction P1A-HS1: 1=No alarm 2=Alarm
HeatingActual.Cor_AlaPt(2)	L,2	39	BV, 20039		Malfunction P1B-HS1
HeatingActual.Cor_AlaPt(3)	L,2	40	BV, 20040		Malfunction P1A-HS2
HeatingActual.Cor_AlaPt(4)	L,2	41	BV, 20041		Malfunction P1B-HS2
HeatingActual.Cor_AlaPt(5)	L,2	42	BV, 20042		Malfunction P1A-HS3
HeatingActual.Cor_AlaPt(6)	L,2	43	BV, 20043		Malfunction P1B-HS3

Alarm status

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(7)	L,2	44	BV, 20044		Malfunction P1-HWC1
HeatingActual.Cor_AlaPt(8)	L,2	45	BV, 20045		Malfunction P1-HP1
HeatingActual.Cor_AlaPt(9)	L,2	46	BV, 20046		Malfunction frequency converter
HeatingActual.Cor_AlaPt(10)	L,2	47	BV, 20047		Expansion vessel
HeatingActual.Cor_AlaPt(11)	L,2	48	BV, 20048		External alarm
HeatingActual.Cor_AlaPt(12)	L,2	49	BV, 20049		Boiler alarm
HeatingActual.Cor_AlaPt(13)	L,2	50	BV, 20050		Deviation HS1
HeatingActual.Cor_AlaPt(14)	L,2	51	BV, 20051		Deviation HS2
HeatingActual.Cor_AlaPt(15)	L,2	52	BV, 20052		Deviation HS3
HeatingActual.Cor_AlaPt(16)	L,2	53	BV, 20053		Deviation HWC1
HeatingActual.Cor_AlaPt(17)	L,2	54	BV, 20054		Deviation HWC2
HeatingActual.Cor_AlaPt(18)	L,2	55	BV, 20055		Sensor error outdoor temp
HeatingActual.Cor_AlaPt(19)	L,2	56	BV, 20056		High HWC1 temp
HeatingActual.Cor_AlaPt(20)	L,2	57	BV, 20057		High HWC2 temp
HeatingActual.Cor_AlaPt(21)	L,2	58	BV, 20058		High Boiler temp
HeatingActual.Cor_AlaPt(22)	L,2	59	BV, 20059		Low Boiler temp
HeatingActual.Cor_AlaPt(23)	L,2	60	BV, 20060		Pulse error volume
HeatingActual.Cor_AlaPt(24)	L,2	61	BV, 20061		Pulse error energy
HeatingActual.Cor_AlaPt(25)	L,2	62			High cold water usage/day
HeatingActual.Cor_AlaPt(26)	L,2	63	BV, 20063		High energy usage
HeatingActual.Cor_AlaPt(27)	L,2	64			High cold water usage/hour
HeatingActual.Cor_AlaPt(28)	L,2	65	BV, 20065		High leakage
HeatingActual.Cor_AlaPt(29)	L,2	66	BV, 20066		Malfunction P1A&B-HS1
HeatingActual.Cor_AlaPt(30)	L,2	67	BV, 20067		Malfunction P1A&B-HS2
HeatingActual.Cor_AlaPt(31)	L,2	68	BV, 20068		Malfunction P1A&B-HS3

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(32)	L,2	69	BV, 20069		Pulse error CW1
HeatingActual.Cor_AlaPt(33)	L,2	70	BV, 20070		Pulse error CW2
HeatingActual.Cor_AlaPt(34)	L,2	71			HS1 manual
HeatingActual.Cor_AlaPt(35)	L,2	72			HS2 manual
HeatingActual.Cor_AlaPt(36)	L,2	73			HS3 manual
HeatingActual.Cor_AlaPt(37)	L,2	74			HWC1 manual
HeatingActual.Cor_AlaPt(38)	L,2	75			HWC2 manual
HeatingActual.Cor_AlaPt(39)	L,2	76			Pressure manual
HeatingActual.Cor_AlaPt(40)	L,2	77			Boiler manual
HeatingActual.Cor_AlaPt(41)	L,2	78			P1A-HS1 manual
HeatingActual.Cor_AlaPt(42)	L,2	79			P1B-HS1 manual
HeatingActual.Cor_AlaPt(43)	L,2	80			P1A-HS2 manual
HeatingActual.Cor_AlaPt(44)	L,2	81			P1B-HS2 manual
HeatingActual.Cor_AlaPt(45)	L,2	82			P1A-HS3 manual
HeatingActual.Cor_AlaPt(46)	L,2	83			P1B-HS3 manual
HeatingActual.Cor_AlaPt(47)	L,2	84			P1-HWC1 manual
HeatingActual.Cor_AlaPt(48)	L,2	85			P1-HP1 manual
HeatingActual.Cor_AlaPt(49)	L,2	86			P1-Freq. manual
HeatingActual.Cor_AlaPt(50)	L,2	87	BV, 20087		HS1 Supply Max
HeatingActual.Cor_AlaPt(51)	L,2	88	BV, 20088		HS2 Supply Max
HeatingActual.Cor_AlaPt(52)	L,2	89	BV, 20089		HS3 Supply Max
HeatingActual.Cor_AlaPt(53)	L,2	90	BV, 20090		HS1 Supply Min
HeatingActual.Cor_AlaPt(54)	L,2	91	BV, 20091		HS2 Supply Min
HeatingActual.Cor_AlaPt(55)	L,2	92	BV, 20092		HS3 Supply Min
HeatingActual.Cor_AlaPt(56)	L,2	93	BV, 20093		HS1 Return Max
HeatingActual.Cor_AlaPt(57)	L,2	94	BV, 20094		HS2 Return Max
HeatingActual.Cor_AlaPt(58)	L,2	95	BV, 20095		HS3 Return Max
HeatingActual.Cor_AlaPt(59)	L,2	96	BV, 20096		HS1Return Min
HeatingActual.Cor_AlaPt(60)	L,2	97	BV, 20097		HS2 Return Min

Alarm status

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(61)	L,2	98	BV, 20098		HS3 Return Min
HeatingActual.Cor_AlaPt(62)	L,2	99	BV, 20099		HS1 Frost
HeatingActual.Cor_AlaPt(63)	L,2	100	BV, 20100		HS2 Frost
HeatingActual.Cor_AlaPt(64)	L,2	101	BV, 20101		HS3 Frost
HeatingActual.Cor_AlaPt(65)	L,2	102			Internal battery error
HeatingActual.Cor_AlaPt(66)	L,2	114	BV, 20114		Low Boiler return temp
HeatingActual.Cor_AlaPt(67)	L,2	115	BV, 20115		Sensor error HS1 Supply
HeatingActual.Cor_AlaPt(68)	L,2	116	BV, 20116		Sensor error HS2 Supply
HeatingActual.Cor_AlaPt(69)	L,2	117	BV, 20117		Sensor error HS3 Supply
HeatingActual.Cor_AlaPt(70)	L,2	118	BV, 20118		Sensor error HW1 Supply
HeatingActual.Cor_AlaPt(71)	L,2	119	BV, 20119		Sensor error HW2 Supply
HeatingActual.Cor_AlaPt(72)	L,2	120	BV, 20120		Sensor error HP1 Supply
HeatingActual.Cor_AlaPt(73)	L,2	121	BV, 20121		Sensor error HS1 Room
HeatingActual.Cor_AlaPt(74)	L,2	122	BV, 20122		Sensor error HS2 Room
HeatingActual.Cor_AlaPt(75)	L,2	123	BV, 20123		Sensor error HS3 Room
HeatingActual.Cor_AlaPt(76)	L,2	124	BV, 20124		Sensor error HS1 Return
HeatingActual.Cor_AlaPt(77)	L,2	125	BV, 20125		Sensor error HS2 Return
HeatingActual.Cor_AlaPt(78)	L,2	126	BV, 20126		Sensor error HS3 Return
HeatingActual.Cor_AlaPt(79)	L,2	127	BV, 20127		Sensor error HP1 Return
HeatingActual.Cor_AlaPt(80)	L,2	128	BV, 20128		Sensor error Wind
HeatingActual.Cor_AlaPt(81)	L,2	129	BV, 20129		Sensor error Pressure
HeatingActual.Cor_AlaPt(82)	L,2	130	BV, 20130		Sensor error Boiler temp
HeatingActual.Cor_AlaPt(83)	L,2	131	BV, 20131		Sensor error Boiler Return
HeatingActual.Cor_AlaPt(84)	L,2	132	BV, 20132		Sensor error CS1 Supply
HeatingActual.Cor_AlaPt(85)	L,2	133	BV, 20133		Sensor error CS1 Return

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(86)	L,2	134	BV, 20134		Sensor error HP Supply
HeatingActual.Cor_AlaPt(87)	L,2	135	BV, 20135		Sensor error HP Return
HeatingActual.Cor_AlaPt(88)	L,2	136	BV, 20136		Sensor error CP Supply
HeatingActual.Cor_AlaPt(89)	L,2	137	BV, 20137		Sensor error CP Return
HeatingActual.Cor_AlaPt(90)	L,2	138	BV, 20138		Sensor error Extra sensor 1
HeatingActual.Cor_AlaPt(91)	L,2	139	BV, 20139		Sensor error Extra sensor 2
HeatingActual.Cor_AlaPt(92)	L,2	140	BV, 20140		Sensor error Extra sensor 3
HeatingActual.Cor_AlaPt(93)	L,2	141	BV, 20141		Sensor error Extra sensor 4
HeatingActual.Cor_AlaPt(94)	L,2	142	BV, 20142		Sensor error Extra sensor 5
HeatingActual.Cor_AlaPt(95)	L,2	143	BV, 20143		Sensor error Boiler supply
HeatingActual.Cor_AlaPt(96)	L,2	144	BV, 20144		Sensor error Boiler1 Return
HeatingActual.Cor_AlaPt(97)	L,2	145	BV, 20145		Sensor error Boiler2 Return
HeatingActual.Cor_AlaPt(98)	L,2	146	BV, 20146		Sensor error Boiler3 Return
HeatingActual.Cor_AlaPt(99)	L,2	147	BV, 20147		Sensor error Boiler4 Return
HeatingActual.Cor_AlaPt(100)	L,2	148	BV, 20148		Sensor error 1 Extra Circuit
HeatingActual.Cor_AlaPt(101)	L,2	149	BV, 20149		Sensor error 2 Extra Circuit
HeatingActual.Cor_AlaPt(102)	L,2	150	BV, 20150		Sensor error CS1 Room PT1000
HeatingActual.Cor_AlaPt(103)	L,2	151	BV, 20151		Sensor error CS1 Room 0-10V
HeatingActual.Cor_AlaPt(106)	L,2	154	BV, 20154		Deviation CS1
HeatingActual.Cor_AlaPt(107)	L,2	155			CS1 manual
HeatingActual.Cor_AlaPt(108)	L,2	156	BV, 20156		CS1 Supply Max
HeatingActual.Cor_AlaPt(109)	L,2	157	BV, 20157		CS1 Supply Min
HeatingActual.Cor_AlaPt(110)	L,2	158	BV, 20158		CS1 Return Max
HeatingActual.Cor_AlaPt(111)	L,2	159	BV, 20159		CS1 Return Min
HeatingActual.Cor_AlaPt(112)	L,2	160	BV, 20160		Malfunction P1A-CS1

Alarm status

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(113)	L,2	161	BV, 20161		Malfunction P1B-CS1
HeatingActual.Cor_AlaPt(114)	L,2	162	BV, 20162		Malfunction P1A&B-CS1
HeatingActual.Cor_AlaPt(115)	L,2	163			P1A-CS1 manual
HeatingActual.Cor_AlaPt(116)	L,2	164			P1B-CS1 manual
HeatingActual.Cor_AlaPt(117)	L,2	165	BV, 20165		Communication error Expansion unit 1
HeatingActual.Cor_AlaPt(118)	L,2	166	BV, 20166		Communication error Expansion unit 2
HeatingActual.Cor_AlaPt(119)	L,2	167	BV, 20167		Communication error M-bus DHM 1
HeatingActual.Cor_AlaPt(120)	L,2	168	BV, 20168		Communication error M-bus WM 1
HeatingActual.Cor_AlaPt(121)	L,2	169	BV, 20169		Communication error M-bus WM 2
HeatingActual.Cor_AlaPt(122)	L,2	170	BV, 20170		Low return temp HW1
HeatingActual.Cor_AlaPt(123)	L,2	171	BV, 20171		Pressure/Flow error
HeatingActual.Cor_AlaPt(124)	L,2	172	BV, 20172		Malfunction Boiler 1
HeatingActual.Cor_AlaPt(125)	L,2	173	BV, 20173		Malfunction Boiler 1
HeatingActual.Cor_AlaPt(126)	L,2	174	BV, 20174		Malfunction Boiler 1
HeatingActual.Cor_AlaPt(127)	L,2	175	BV, 20175		Malfunction Boiler 1
HeatingActual.Cor_AlaPt(128)	L,2	176	BV, 20176		Malf. Boilerpump 1
HeatingActual.Cor_AlaPt(129)	L,2	177	BV, 20177		Malf. Boilerpump 1
HeatingActual.Cor_AlaPt(130)	L,2	178	BV, 20178		Malf. Boilerpump 1
HeatingActual.Cor_AlaPt(131)	L,2	179	BV, 20179		Malf. Boilerpump 1
HeatingActual.Cor_AlaPt(132)	L,2	180	BV, 20180		Malf. transportpump
HeatingActual.Cor_AlaPt(133)	L,2	181			Boiler 1 manual
HeatingActual.Cor_AlaPt(134)	L,2	182			Boiler 1 manual
HeatingActual.Cor_AlaPt(135)	L,2	183			Boiler 1 manual
HeatingActual.Cor_AlaPt(136)	L,2	184			Boiler 1 manual
HeatingActual.Cor_AlaPt(137)	L,2	185			Boilerpump 1 Manual
HeatingActual.Cor_AlaPt(138)	L,2	186			Boilerpump 1 Manual
HeatingActual.Cor_AlaPt(139)	L,2	187			Boilerpump 1 Manual

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
HeatingActual.Cor_AlaPt(140)	L,2	188			Boilerpump 1 Manual
HeatingActual.Cor_AlaPt(141)	L,2	189			Transportpump Manual
HeatingActual.Cor_AlaPt(142)	L,2	190	BV, 20190		Malfunction P1-Ext.Circ.
HeatingActual.Cor_AlaPt(143)	L,2	191			P1-Ext.Circ. manual
HeatingActual.Cor_AlaPt(144)	L,2	192	BV, 20192		HW1 blocked for HS Priority
HeatingActual.Cor_AlaPt(145)	L,2	193	BV, 20193		HW2 blocked for HS Priority
HeatingActual.Cor_AlaPt(146)	L,2	194	BV, 20194		HP1 blocked for HS Priority
HeatingActual.Cor_AlaPt(147)	L,2	195	BV, 20195		HS1 blocked for HW Priority
HeatingActual.Cor_AlaPt(148)	L,2	196	BV, 20196		HS2 blocked for HW Priority
HeatingActual.Cor_AlaPt(149)	L,2	197	BV, 20197		HS3 blocked for HW Priority

11.3 Alarm Acknowledging, Blocking and Unblocking

Signalbezeichnung	Typ	Modbus-Adresse	BACnet	Default-Wert	Beschreibung
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.
HeatingSettings.Cor_AlaAcknowAll	L,1	17	BV, 10017		Command to acknowledge all alarms

12 Änderungsverzeichnis

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