

**SAUTER flexotron800 V2  
Lüftung**

**Liste der Netzwerkvariablen für  
die Modbus- und BACnet  
Kommunikation**

**Benutzerhandbuch**

P100013562

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## Änderungsverzeichnis

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## 1 Vorwort

Das Benutzerhandbuch wird von SAUTER ohne Garantie bereitgestellt. SAUTER kann zu jeder Zeit und ohne vorherige Ankündigung, Änderungen und Verbesserungen im Handbuch vornehmen. Alle Änderungen werden in die zukünftigen Versionen dieses Handbuches einfließen.

Revisionstand A, August 2014

## 2 flexotron800 mit Modbus- und BACnet-Kommunikation

### Einführung

Bei flexotron800 Ventilation 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. This document does not describe how to create a project.

### 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 (Eingangstatusregister) (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**

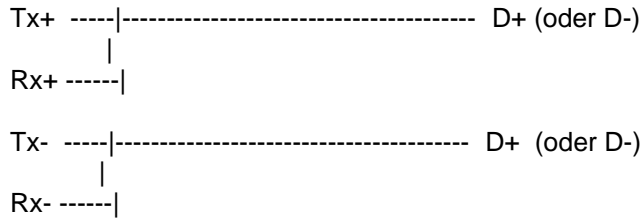
Bei RS485 und RS422 handelt es sich um den elektrischen Teil des Protokolls, d. h. die physikalische Schicht.

RS485 besitzt zwei Anschlüsse: A und B. Häufig ist zudem Schutz Erde 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.

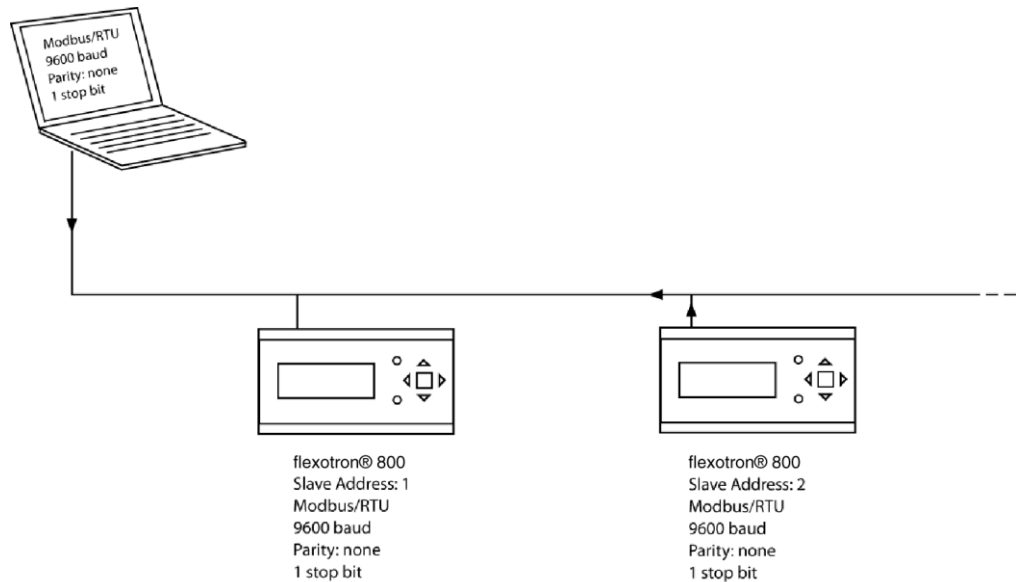


Die nächste Schicht besteht aus Bitrate, einem Stoppbit, Parität. Diese Einstellungen müssen den Einstellungen im Master-Gerät entsprechen. Bringen Sie in Erfahrung, wie das Master-Gerät eingestellt ist, und richten Sie flexotron800 auf der Grundlage dieser Einstellungen ein.

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.



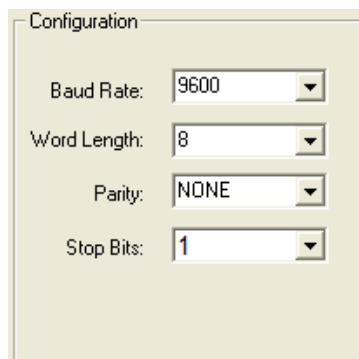


### 3 Systemintegration über Modbus

#### 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.



Configuration

Baud Rate: 9600

Word Length: 8

Parity: NONE

Stop Bits: 1

#### 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.



Transmission Mode

STANDARD

ASCII  RTU

#### 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.

Systemintegration über Modbus

Modbus Data	
Slave Address:	<input type="text" value="1"/>
Point Type:	<input type="text" value="04 INPUT REGISTER"/>
Point Address:	<input type="text" value="54"/>
Length:	<input type="text" value="5"/>

## Commonly used signals

## 4 Commonly used signals

Um die Systemintegration zu vereinfachen, wird nachfolgend ein Verzeichnis der gebräuchlichsten Signale zur Verfügung gestellt.

## 4.1 Input Status

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_ExtendedRunActiveFull	L	8	BV, 20008		Actual/Setpoint	Set if extended operation full speed
VentActual.Cor_ExtendedRunActiveHalf	L	9	BV, 20009		Actual/Setpoint	Set if extended operation half speed
VentActual.Cor_AlaPt(1) ... VentActual.Cor_AlaPt(48)	L	33...80	BV, 20033 ... BV, 20080		Alarm Points	Run Error Supply Air Fan 0=No alarm 1=Alarm ... Internal battery error
VentActual.Cor_AlaPt(49) ... VentActual.Cor_AlaPt(100)	L	90...141	BV, 20090 ... BV, 20141		Alarm Points	Sensor error Supply Air temp ... Low temp Extra sensor 5

## 4.2 Holding Register – Setpoint settings

Holding-Register-Werte können angepasst werden (lesen/schreiben).

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_SupplySetpoint	R	1	AV, 30001	18°C	Supply, Extract and Room temperatures	Setpoint supply air temperature when constant supply air temperature function
VentSettings.Cor_ExhaustSetpoint	R	18	AV, 30018	21°C	Supply, Extract and Room temperatures	Setpoint extract air temp if extract air temp control function
VentSettings.Cor_RoomSetP	R	19	AV, 30019	21°C	Supply, Extract and Room temperatures	Room setpoint if room temp control function
VentSettings.Cor_SAFFullspeedPressure	R	24	AV, 30024	500 Pa	SAF/EAF	Setpoint full speed

## Commonly used signals

Variablenname	Variablentyp	Modbus-Adresse	BA Cnet	Standard-wert	Funktion	Beschreibung
					Pressure and Flow	supply air fan pressure
VentSettings.Cor_SAFHalfspeedPressure	R	25	AV, 30025	250 Pa	SAF/EAF Pressure and Flow	Setpoint reduced speed supply air fan pressure
VentSettings.Cor_EAFFullspeedPressure	R	26	AV, 30026	500 Pa	SAF/EAF Pressure and Flow	Setpoint full speed extract air fan pressure
VentSettings.Cor_EAFHalfspeedPressure	R	27	AV, 30027	250 Pa	SAF/EAF Pressure and Flow	Setpoint reduced speed extract air fan pressure
VentSettings.Cor_SAFFullspeedAirFlow	R	28	AV, 30028	2000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint full speed supply air fan flow. Scale factor = 1
VentSettings.Cor_SAFHalfspeedAirFlow	R	29	AV, 30029	1000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint reduced speed supply air fan flow. Scale factor = 1
VentSettings.Cor_EAFFullspeedAirFlow	R	30	AV, 30030	2000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint full speed extract air fan flow. Scale factor = 1
VentSettings.Cor_EAFHalfspeedAirFlow	R	31	AV, 30031	1000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint reduced speed extract air fan flow. Scale factor = 1
VentActual.Cor_Outdoor temp(0)	R	392	AV, 30392		Actual/Setpoint	Outdoor temperature (Can be modified if it's not connected to a physical analogue input).
VentSettings.Cor_SupplySetpointMax	R	404	AV, 30404	30°C	Supply, Extract and Room temperatures	Max limit of supply setpoint when cascade control
VentSettings.Cor_SupplySetpointMin	R	405	AV, 30405	12°C	Supply, Extract and Room temperatures	Min limit of supply setpoint when cascade control
VentSettings.Cor_DemandCO2Value1	R	465	AV, 30465	800	CO2	Activation of demand- controlled ventilation, 1/2-speed
VentSettings.Cor_DemandCO2Value2	R	466	AV, 30466	1000	CO2	Activation of demand- controlled ventilation, 1/1-speed
VentSettings.Cor_DemandCO2Diff	R	467	AV, 30467	160	CO2	Hysteresis for stop of demand controlled ventilation (ppm)

## Commonly used signals

## 4.3 Holding Register – Manual / Auto settings

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_AirUnitAutoMode	X	368	MSV, 30368	3	Manual/Auto	Running mode air unit: Modbus: 0=Manual off 1=Manual reduced speed 2=Manual normal speed 3=Auto BACnet: 1=Manual off 2=Manual reduced speed 3=Manual normal speed 4=Auto
VentSettings.Cor_SupplyPID_Select	X	369	-	2	Manual/Auto	Supply temp controller mode: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_SupplyPID_ManSet	R	370	-	0 %	Manual/Auto	Supply temp controller output if manual on mode
VentSettings.Cor_SAFAutoMode(0)	X	371	-	3	Manual/Auto	Running mode SAF: 0=Off 1=Manual half speed 2=Manual full speed 3=Auto
VentSettings.Cor_EAFAutoMode	X	372	-	3	Manual/Auto	Running mode EAF: 0=Off 1=Manual half speed 2=Manual full speed 3=Auto
VentSettings.Cor_SAFFrequencyAutoMode	X	373	-	3	Manual/Auto	Running mode frequency controlled SAF 0=Manual 1=Man. half speed 2=Man. Fullspeed 3=Auto
VentSettings.Cor_SAFManual	R	374	-	0 %	Manual/Auto	Frequencer controller output SAF if manual mode
VentSettings.Cor_EAFFrequencyAutoMode	X	375	-	3	Manual/Auto	Running mode frequency controlled EAF 0=Manual 1=Man. half speed 2=Man. Fullspeed 3=Auto
VentSettings.Cor_EAFManual	R	376	-	0 %	Manual/Auto	Frequencer controller output EAF if manual mode
VentSettings.Cor_HeatCoilAutoMode(0)	X	377	-	2	Manual/Auto	Running mode Heating:

## Commonly used signals

Variablenname	Variablentyp	Modbus-Adresse	BA Cnet	Standard-wert	Funktion	Beschreibung
						0=Off 1=Manual 2=Auto
VentSettings.Cor_HeatCoilManual(0)	R	378	-	0	Manual/Auto	Heating controller output if manual mode
VentSettings.Cor_ExchCoilAutoMode	X	379	-	2	Manual/Auto	Running mode Exchanger: 0=Off 1=Manual 2=Auto
VentSettings.Cor_ExchCoilManual	R	380	-	0	Manual/Auto	Exchanger controller output if manual mode
VentSettings.Cor_CoolCoilAutoMode	X	381	-	2	Manual/Auto	Running mode Cooling: 0=Off 1=Manual 2=Auto
VentSettings.Cor_CoolCoilManual	R	382	-	0	Manual/Auto	Cooling controller output if manual mode
VentSettings.Cor_HumidityPID_Select	X	383	-	2	Manual/Auto	Running mode Humidification/Dehumidification: 0=Off 1=Manual 2=Auto
VentSettings.Cor_HumidityPID_ManSet	R	384	-	0	Manual/Auto	Humidification/Dehumidification controller output if manual mode
VentSettings.Cor_HeatPumpAutoMode(0)	X	385	-	2	Manual/Auto	Running mode P1-Heating: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_ExchPumpAutoMode	X	386	-	2	Manual/Auto	Running mode P1-Exchanger: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_CoolPumpAutoMode	X	387	-	2	Manual/Auto	Running mode P1-Cooling: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_FireDamperAutoMode	X	388	-	2	Manual/Auto	Running mode fire damper: 0=Close 1=Open 2=Auto
VentSettings.Cor_ExternalControl	X	451	MSV, 30451	2	Manual/Auto	External control: Modbus:

## Commonly used signals

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						0=Extended run full speed 1=External stop 2=No external control 3=External stop with support control BACnet: 1=Extended run full speed 2=External stop 3=No external control 4=External stop with support control

## 4.4 Input Register

Input register Werte (ausschliesslich lesen).

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_Outdoor temp(0)	R	1	AV, 40001		Actual/Setpoint	Outdoor temperature (read-only)
VentActual.Cor_Efficiency	R	2	AV, 40002		Actual/Setpoint	Efficiency in % for exchanger
VentActual.Cor_RunMode	X	3	MSV, 40003		Actual/Setpoint	Modbus: 0=Stopped 1=Starting up 2=Starting reduced speed 3=Starting full speed 4=Starting normal run 5=Normal run 6=Support control heating 7=Support control cooling 8=CO2 run 9=Night cooling 10=Full speed stop 11=Stopping fan BACnet: 1=Stopped 2=Starting up 3=Starting reduced speed 4=Starting full speed 5=Starting normal run 6=Normal run 7=Support control heating

## Commonly used signals

Variablenname	Variablentyp	Modbus-Adresse	BA Cnet	Standard-wert	Funktion	Beschreibung
						8=Support control cooling 9=CO2 run 10=Night cooling 11=Full speed stop 12=Stopping fan
VentActual.Cor_SupplyAirTemp	R	7	AV, 40007		Supply, Extract and Room temperatures	Supply air temperature
VentActual.Cor_ExtractAirTemp	R	9	AV, 40009		Supply, Extract and Room temperatures	Extract air temp
VentActual.Cor_RoomTemp1	R	10	AV, 40010		Supply, Extract and Room temperatures	Room temperature 1
VentActual.Cor_RoomTemp2	R	11	AV, 40011		Supply, Extract and Room temperatures	Room temperature 2
VentActual.Cor_SAFPressure	R	13	AV, 40013		SAF/EAF Pressure and Flow	Supply air fan pressure (Pa)
VentActual.Cor_EAFPressure	R	14	AV, 40014		SAF/EAF Pressure and Flow	Extract air fan pressure (Pa)
VentActual.Cor_SAFAirFlow	R	15	AV, 40015		SAF/EAF Pressure and Flow	Supply air fan flow (m3/h). Scale factor = 1
VentActual.Cor_EAFAirFlow	R	16	AV, 40016		SAF/EAF Pressure and Flow	Extract air fan flow (m3/h). Scale factor = 1
VentActual.Cor_CO2Sensor	R	17	AV, 40017		CO2	CO2 (ppm)
VentActual.Cor_FrostprotectionTemp	R	19	AV, 40019		Frost protection	Frost protection temp
VentActual.Cor_DeIcingTemp	R	21	AV, 40021		Extract air temp/De-icing exchanger	De-icing temp exchanger
VentActual.Cor_HumidityRoom	R	23	AV, 40023		Humidity	Humidity room
VentActual.Cor_ExtraSensor	R	25	AV, 40025		Additional sensor/ External setpoint	Extra sensor 1/External setpoint (depending on configuration)
VentActual.Cor_HeatCV1(0)	R	119	AV, 40119		Analogue outputs	Control signal heating Y1 (0...10 V)
VentActual.Cor_ExchCV1	R	120	AV, 40120		Analogue outputs	Control signal exchanger Y2 (0...10 V)
VentActual.Cor_CoolCV1	R	121	AV, 40121		Analogue	Control signal cooler Y3



## Commonly used signals

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
					outputs	(0...10 V)
VentActual.Cor_SAF	R	122	AV, 40122		SAF/EAF Pressure and Flow	Control signal supply air fan (0...10 V)
VentActual.Cor_EAF	R	123	AV, 40123		SAF/EAF Pressure and Flow	Control signal extract air fan (0...10 V)
VentActual.Cor_UnitRunMode	X	284	MSV, 40284		Actual/Setpoint	Unit run mode: Modbus: 0=Off 1=Reduced speed 2=Normal speed 3=Stop because of alarm BACnet: 1=Off 2=Reduced speed 3=Normal speed 4=Stop because of alarm
VentActual.Cor_FilterGuard1AI	R	301	AV, 40301		Actual/Setpoint	Analogue filter 1 value (Pa)
VentActual.Cor_FilterGuard2AI	R	302	AV, 40302		Actual/Setpoint	Analogue filter 2 value (Pa)

## 5 Coil Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_OverHeatFastStop	L	1	-	0	Settings, General	Enable fast stop if overheat alarm
VentSettings.Cor_CoolStepAlarmBlock	L	2	-	0	Settings, General	Block cooling step signals if this is set and alarm "Run Error P1-Cooler"
VentSettings.Cor_AlaAcknowAll	L	3	BV, 10003	0	Settings, General	Command to acknowledge all alarms
VentSettings.Cor_AlaAcknowAll	L	3	-	0	Alarm Acknowledging Blocking and Unblocking	Command to acknowledge all alarms
VentSettings.Cor_ReservedL	L	4	-	0	Settings, General	Not used
VentSettings.Cor_RecycleNightCool	L	5	-	0	Recirculation	Enable the night cool function when Recirculation run
VentSettings.Cor_RecycleExtraTimeGroup5	L	6	-	0	Recirculation	Use ExtraTimeGroup 5 to start Recirculation run
VentSettings. Cor_CompSAFOnly	L	7	-	0	SAF/EAF Pressure and Flow	Is set if only SAF pressure should be compensated
VentSettings.Cor_NeedControl	L	8	-	0	Settings, General	Enable support control if the unit is shut down
VentSettings.Cor_DeIcingFunction	L	9	-	0	Extract air temp/De-icing exchanger	Enable the de-icing function
VentSettings.Cor_FilterAlarmReset	L	10	-	0	Settings, General	Resets the filter alarm counter
VentSettings.Cor_ReservedL	L	11	-	0	Settings, General	Not used
VentSettings.Cor_ReservedL	L	12	-	0	Settings, General	Not used
VentSettings.Cor_ReservedL	L	13	-	0	Settings, General	Not used
VentSettings.Cor_ReservedL	L	14	-	0	Settings, General	Not used
VentSettings.Cor_ReservedL	L	15	-	0	Settings, General	Not used
VentSettings.Cor_ReservedL	L	16	-	0	Settings, General	Not used

## Input Register

## 6 Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_OutDoorTemp(0)	R	1	AV, 40001		Actual/Setpoint	Outdoor temperature (read-only)
VentActual.Cor_Efficiency	R	2	AV, 40002		Actual/Setpoint	Efficiency in % for exchanger
VentActual.Cor_RunMode	X	3	MSV, 40003		Actual/Setpoint	0=Stopped 1=Starting up 2=Starting reduced speed 3=Starting full speed 4=Starting normal run 5=Normal run 6=Support control heating 7=Support control cooling 8=CO <sub>2</sub> run 9=Night cooling 10=Full speed stop 11=Stopping fan
VentActual.Cor_SAFRunTime	R	4	AV, 40004		Actual/Setpoint	Running time (hour) supply air fan
VentActual.Cor_EAFRunTime	R	5	AV, 40005		Actual/Setpoint	Running time (hour) extract air fan
VentActual.Cor_ExtendedRunMin	I	6	-		Actual/Setpoint	Number of minutes extended operation
VentActual.Cor_SupplyAirTemp	R	7	AV, 40007		Supply,Extract and Room temperatures	Supply air temperature
VentActual.Cor_SupplyPID_SetP	R	8	AV, 40008		Supply,Extract and Room temperatures	Calculated setpoint supply air temperature when outdoor compensated control function
VentActual.Cor_ExtractAirTemp	R	9	AV, 40009		Supply,Extract and Room temperatures	Extract air temp
VentActual.Cor_RoomTemp1	R	10	AV, 40010		Supply,Extract and Room temperatures	Room temperature 1
VentActual.Cor_RoomTemp2	R	11	AV, 40011		Supply,Extract and Room temperatures	Room temperature 2
VentActual. Cor_NeedRunTime	I	12	-		Supply,Extract and Room temperatures	Number of minutes in ongoing support heating/cooling
VentActual.Cor_SAFPressure	R	13	AV, 40013		SAF/EAF Pressure and Flow	Supply air fan pressure (Pa)
VentActual.Cor_EAFPressure	R	14	AV, 40014		SAF/EAF Pressure and Flow	Extract air fan pressure (Pa)
VentActual.Cor_SAFAirFlow	R	15	AV, 40015		SAF/EAF Pressure and Flow	Supply air fan flow (m <sup>3</sup> /h). Scale factor = 1

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_EAFAirFlow	R	16	AV, 40016		SAF/EAF Pressure and Flow	Extract air fan flow (m3/h) Scale factor = 1
VentActual.Cor_CO2Sensor	R	17	AV, 40017		CO <sub>2</sub>	CO <sub>2</sub> (ppm)
VentActual.Cor_DemandRunTime	I	18	-		CO <sub>2</sub>	Number of minutes support run time CO <sub>2</sub>
VentActual.Cor_FrostprotectionTemp	R	19	AV, 40019		Frost protection	Frost protection temp
VentActual.Cor_ExhaustAirTemp	R	20	AV, 40020		Extract air temp/De-icing exchanger	Exhaust air temp
VentActual.Cor_DelcingTemp	R	21	AV, 40021		Extract air temp/De-icing exchanger	De-icing temp exchanger
VentActual.Cor_DelcingTime	X	22	-		Extract air temp/De-icing exchanger	Number of minutes for ongoing de-icing
VentActual.Cor_HumidityRoom	R	23	AV, 40023		Humidity	Humidity room
VentActual.Cor_HumidityDuct	R	24	AV, 40024		Humidity	Humidity duct
VentActual.Cor_ExtraSensor	R	25	AV, 40025		Additional sensor/External setpoint	Extra sensor 1 / External setpoint (depending on the configuration)
VentActual.Cor_AnalogInput1(0)	R	26	-		Analogue inputs	The scaled and filtered value of AI1
VentActual.Cor_AnalogInput2	R	27	-		Analogue inputs	The scaled and filtered value of AI2
VentActual.Cor_AnalogInput3	R	28	-		Analogue inputs	The scaled and filtered value of AI3
VentActual.Cor_AnalogInput4	R	29	-		Analogue inputs	The scaled and filtered value of AI4
VentActual.Cor_AnalogInput5	R	30	-		Universal inputs	The scaled and filtered value of UAI1
VentActual.Cor_AnalogInput6	R	31	-		Universal inputs	The scaled and filtered value of UAI2
VentActual.Cor_AnalogInput7	R	32	-		Universal inputs	The scaled and filtered value of UAI3
VentActual.Cor_AnalogInput8	R	33	-		Universal inputs	The scaled and filtered value of UAI4
VentSettings.Cor_Ai1(0)	X	34	-		Analogue inputs	Connected signal on AI1: 0=Not used 1=Outdoortemp 2=Supplytemp 3=Extracttemp 4=Roomtemp1 5=Roomtemp2 6=Exhausttemp 7=Extrasensor 8=SAF pressure 9=EAF pressure 10=Deicingtemp

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						11=Frost prot.temp 12=CO <sub>2</sub> 13=Humidity room 14=Humidity duct 15=Extra unit temp 16=External SAF control 17=External EAF control 18=SAF pressure 2 19=Humidity outdoor
VentSettings.Cor_Ai2	X	35	-		Analogue inputs	Connected signal on AI2:
VentSettings.Cor_Ai3	X	36	-		Analogue inputs	Connected signal on AI3:
VentSettings.Cor_Ai4	X	37	-		Analogue inputs	Connected signal on AI4:
VentSettings.Cor_UAi1	X	38	-		Universal inputs	Connected signal on UAI1: 0=Not used 1=Outdoortemp 2=Supplytemp 3=Extracttemp 4=Roomtemp1 5=Roomtemp2 6=Exhausttemp 7=Extrasensor 8=SAF pressure 9=EAF pressure 10=Deicingtemp 11=Frost prot.temp 12=CO <sub>2</sub> 13=Humidity room 14=Humidity duct 15=Extra unit temp 16=External SAF control 17=External EAF control 18=SAF pressure 2 19=Humidity outdoor
VentSettings.Cor_UAi2	X	39	-		Universal inputs	Connected signal on UAI2: (See signal list for UAI1)
VentSettings.Cor_UAi3	X	40	-		Universal inputs	Connected signal on UAI3: (See signal list for UAI1)
VentSettings.Cor_UAi4	X	41	-		Universal inputs	Connected signal on UAI4: (See signal list for UAI1)
VentSettings.Cor_Di1(0)	X	42	-		Digital inputs	Connected signal on DI1: 0=Not used 1=SAF-Ind 2=EAF-Ind 3=P1-Heating 4=P1-Exchanger 5=P1-Cooling 6=Filter guard 7=Fire alarm 8=Fire damper-ind

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						9=Ext run 1/1 10=Ext run 1/2 11=External alarm 12=External switch 13=Flow guard 14=Rot.sent.exch 15=De-icing 16=Frostprotection 17=Overheatprotection 18=Recirculation run 19=Change over 20=Filter guard 2
VentSettings.Cor_Di2	X	43	-		Digital inputs	Connected signal on DI2: (See signal list for DI1)
VentSettings.Cor_Di3	X	44	-		Digital inputs	Connected signal on DI3: (See signal list for DI1)
VentSettings.Cor_Di4	X	45	-		Digital inputs	Connected signal on DI4: (See signal list for DI1)
VentSettings.Cor_Di5	X	46	-		Digital inputs	Connected signal on DI5: (See signal list for DI1)
VentSettings.Cor_Di6	X	47	-		Digital inputs	Connected signal on DI6: (See signal list for DI1)
VentSettings.Cor_Di7	X	48	-		Digital inputs	Connected signal on DI7: (See signal list for DI1)
VentSettings.Cor_Di8	X	49	-		Digital inputs	Connected signal on DI8: (See signal list for DI1)
VentSettings.Cor_UDi1	X	50	-		Universal inputs	Connected signal on UDI1: 0=Not used 1=SAF-Ind 2=EAF-Ind 3=P1-Heating 4=P1-Exchanger 5=P1-Cooling 6=Filter guard 7=Fire alarm 8=Fire damper-ind 9=Ext run 1/1 10=Ext run 1/2 11=External alarm 12=External switch 13=Flow guard 14=Rot.sent.exch 15=De-icing 16=Frostprotection 17=Overheatprotection 18=Recirculation run 19=Change over 20=Filter guard 2

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_UDi2	X	51	-		Universal inputs	Connected signal on UDI2: (See signal list for UDI1)
VentSettings.Cor_UDi3	X	52	-		Universal inputs	Connected signal on UDI3: (See signal list for UDI1)
VentSettings.Cor_UDi4	X	53	-		Universal inputs	Connected signal on UDI4: (See signal list for UDI1)
QAnaOut.AQ1	R	54	-		Analogue outputs	Value of AO1
QAnaOut.AQ2	R	55	-		Analogue outputs	Value of AO2
QAnaOut.AQ3	R	56	-		Analogue outputs	Value of AO3
QAnaOut.AQ4	R	57	-		Analogue outputs	Value of AO4
QAnaOut.AQ5	R	58	-		Analogue outputs	Value of AO5
VentSettings.Cor_Ao1(0)	X	59	-		Analogue outputs	Connected signal on AO1: 0=Not used 1=Y1-Heating 2=Y2-Exchanger 3=Y3-Cooling 4=SAF 5=EAF 6=Y6-Humidity 7=Split of Y1, Y2 or Y3 8=Extra unit 9=Heat/Cool (change over) 10=Extra sequence Y4
VentSettings.Cor_Ao2	X	60	-		Analogue outputs	Connected signal on AO2: (See signal list for AO1)
VentSettings.Cor_Ao3	X	61	-		Analogue outputs	Connected signal on AO3: (See signal list for AO1)
VentSettings.Cor_Ao4	X	62	-		Analogue outputs	Connected signal on AO4: (See signal list for AO1)
VentSettings.Cor_Ao5	X	63	-		Analogue outputs	Connected signal on AO5: (See signal list for AO1)
VentSettings.Cor_Do1(0)	X	64	-		Digital outputs	Connected signal on DO1: 0 = Not Used 1 = SAFStart1 2 = EAFStart1 3 = SAFStart2 4 = EAFStart2 5 = HeatingPumpStart 6 = ExchangerStart 7 = CoolingPumpStart 8 = FireDamper 9 = SumAlarm 10 = SumAlarmA 11 = SumAlarmB 12 = SAFFrequencyStart

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						13 = EAFFrequencyStart 14 = HeatingActivate 15 = ExchangerActivate 16 = CoolingActivate 17 = RecycleAirDamper 18 = FreshAirDamper 19 = ExtractAirDamper 20 = HeatingIncrease 21 = HeatingDecrease 22 = ExchangerIncrease 23 = ExchangerDecrease 24 = CoolingIncrease 25 = CoolingDecrease 26 = HeatStep1 27 = HeatStep2 28 = HeatStep3 29 = HeatStep4 30 = CoolStep1 31 = CoolStep2 32 = CoolStep3 33 = TimeChannel1 34 = TimeChannel2 35 = TimeChannel3 36 = TimeChannel4 37 = TimeChannel5 38 = Humidity start 39 = Extra unit start 40 = Heat/Cool step 1 41 = Heat/Cool step 2 42 = Heat/Cool step 3 43 = Night cool run
VentSettings.Cor_Do2	X	65	-		Digital outputs	Connected signal on DO2: (See signal list for DO1)
VentSettings.Cor_Do3	X	66	-		Digital outputs	Connected signal on DO3: (See signal list for DO1)
VentSettings.Cor_Do4	X	67	-		Digital outputs	Connected signal on DO4: (See signal list for DO1)
VentSettings.Cor_Do5	X	68	-		Digital outputs	Connected signal on DO5: (See signal list for DO1)
VentSettings.Cor_Do6	X	69	-		Digital outputs	Connected signal on DO6: (See signal list for DO1)
VentSettings.Cor_Do7	X	70	-		Digital outputs	Connected signal on DO7: (See signal list for DO1)
AlaData.AlaPt1_Status	X	71	-		Alarm Status	Run Error Supply Air Fan 0=Not used 1=Normal 2=Blocked 3=Acknowledge 4=Not used



## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						5=Cancelled 6=Not used 7=Alarm
AlaData.AlaPt2_Status	X	72	-		Alarm Status	Run Error Extract Air Fan
AlaData.AlaPt3_Status	X	73	-		Alarm Status	Run Error P1-Heater
AlaData.AlaPt4_Status	X	74	-		Alarm Status	Run Error P1-Cooler
AlaData.AlaPt5_Status	X	75	-		Alarm Status	Run Error P1-Exchanger
AlaData.AlaPt6_Status	X	76	-		Alarm Status	Filter guard
AlaData.AlaPt7_Status	X	77	-		Alarm Status	Flow guard
AlaData.AlaPt8_Status	X	78	-		Alarm Status	External frost guard
AlaData.AlaPt9_Status	X	79	-		Alarm Status	Deicing pressure guard
AlaData.AlaPt10_Status	X	80	-		Alarm Status	Fire alarm
AlaData.AlaPt11_Status	X	81	-		Alarm Status	External switch
AlaData.AlaPt12_Status	X	82	-		Alarm Status	External alarm
AlaData.AlaPt13_Status	X	83	-		Alarm Status	Supply Air control error
AlaData.AlaPt14_Status	X	84	-		Alarm Status	Not used
AlaData.AlaPt15_Status	X	85	-		Alarm Status	High supply air temp
AlaData.AlaPt16_Status	X	86	-		Alarm Status	Low supply air temp
AlaData.AlaPt17_Status	X	87	-		Alarm Status	Supply Air Fan max limit
AlaData.AlaPt18_Status	X	88	-		Alarm Status	Supply Air Fan min limit
AlaData.AlaPt19_Status	X	89	-		Alarm Status	High room temp
AlaData.AlaPt20_Status	X	90	-		Alarm Status	Low room temp
AlaData.AlaPt21_Status	X	91	-		Alarm Status	High extract air temp
AlaData.AlaPt22_Status	X	92	-		Alarm Status	Low extract air temp
AlaData.AlaPt23_Status	X	93	-		Alarm Status	Electric heating is overheated
AlaData.AlaPt24_Status	X	94	-		Alarm Status	Frost risk
AlaData.AlaPt25_Status	X	95	-		Alarm Status	Low frost guard temp
AlaData.AlaPt26_Status	X	96	-		Alarm Status	Low efficiency
AlaData.AlaPt27_Status	X	97	-		Alarm Status	Sensor error outdoor temp
AlaData.AlaPt28_Status	X	98	-		Alarm Status	Analogue deicing
AlaData.AlaPt29_Status	X	99	-		Alarm Status	Rotation guard exchanger
AlaData.AlaPt30_Status	X	100	-		Alarm Status	Fire damper is out of operation
AlaData.AlaPt31_Status	X	101	-		Alarm Status	Supply Air Fan control error

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
AlaData.AlaPt32_Status	X	102	-		Alarm Status	Extract Air Fan control error
AlaData.AlaPt33_Status	X	103	-		Alarm Status	Supply Air Fan external operation
AlaData.AlaPt34_Status	X	104	-		Alarm Status	Extract Air Fan external operation
AlaData.AlaPt35_Status	X	105	-		Alarm Status	Ventilation Manual mode
AlaData.AlaPt36_Status	X	106	-		Alarm Status	Manual supply air control
AlaData.AlaPt37_Status	X	107	-		Alarm Status	Manual Supply Air Fan mode
AlaData.AlaPt38_Status	X	108	-		Alarm Status	Manual Supply Air Fan freq control
AlaData.AlaPt39_Status	X	109	-		Alarm Status	Manual Extract Air Fan mode
AlaData.AlaPt40_Status	X	110	-		Alarm Status	Manual Extract Air Fan freq control
AlaData.AlaPt41_Status	X	111	-		Alarm Status	Manual heater control
AlaData.AlaPt42_Status	X	112	-		Alarm Status	Manual cooler control
AlaData.AlaPt43_Status	X	113	-		Alarm Status	Manual exchanger control
AlaData.AlaPt44_Status	X	114	-		Alarm Status	Manual P1-Heater
AlaData.AlaPt45_Status	X	115	-		Alarm Status	Manual P1-Cooler
AlaData.AlaPt46_Status	X	116	-		Alarm Status	Manual P1-Exchanger
AlaData.AlaPt47_Status	X	117	-		Alarm Status	Manual fire damper
AlaData.AlaPt48_Status	X	118	-		Alarm Status	Internal battery error
VentActual.Cor_HeatCV1(0)	R	119	AV, 40119		Supply, Extract and Room temperatures	Control signal heating Y1 (0-10 V)
VentActual.Cor_ExchCV1	R	120	AV, 40120		Supply, Extract and Room temperatures	Control signal exchanger Y2 (0-10 V)
VentActual.Cor_CoolCV1	R	121	AV, 40121		Supply, Extract and Room temperatures	Control signal cooler Y3 (0-10 V)
VentActual.Cor_SAF	R	122	AV, 40122		SAF/EAF Pressure and Flow	Control signal supply air fan (0-10 V)
VentActual.Cor_EAF	R	123	AV, 40123		SAF/EAF Pressure and Flow	Control signal extract air fan (0-10 V)
VentActual.Cor_Humidity	R	124	AV, 40124		Humidity	Control signal humidity (0-10 V)
VentActual.Cor_Split	R	125	AV, 40125		Supply, Extract and Room temperatures	Control signal split (0-10 V)
VentActual.Cor_SupplyPID_Output	R	126	AV, 40126		Supply, Extract and	Supply controller output

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
					Room temperatures	(0-100 %)
VentActual.Cor_ExhaustPID_Output	R	127	AV, 40127		Supply, Extract and Room temperatures	Extract controller output (0-100 %)
VentActual.Cor_SAFPID_Output	R	128	AV, 40128		SAF/EAF Pressure and Flow	SAF controller output (0-100 %)
VentActual.Cor_EAFPID_Output	R	129	AV, 40129		SAF/EAF Pressure and Flow	EAF controller output (0-100 %)
VentActual.Cor_FrostPID_Output	R	130	AV, 40130		Frost protection	Frost protection controller output if ventilation unit is stoped (0-100 %)
VentActual.Cor_CO2PID_Output	R	131	AV, 40131		CO <sub>2</sub>	CO <sub>2</sub> controller output (0-100 %)
VentActual.Cor_RoomPID_Output	R	132	AV, 40132		Supply, Extract and Room temperatures	Room controller output (0-100 %)
VentActual.Cor_DeIcePID_Output	R	133	AV, 40133		Extract air temp/De-icing exchanger	De-icing controller output (0-100 %)
VentActual.Cor_HumidityPID_Outpu t	R	134	AV, 40134		Humidity	Humidity controller output (0-100 %)
VentActual.Cor_RoomTemp	R	135	AV, 40135		Supply, Extract and Room temperatures	Room temperature 1 and 2
AlaData.AlaPt49_Status	X	137	-		Alarm Status	Sensor error Supply Air temp
AlaData.AlaPt50_Status	X	138	-		Alarm Status	Sensor error Exhaust Air temp
AlaData.AlaPt51_Status	X	139	-		Alarm Status	Sensor error Room temp 1
AlaData.AlaPt52_Status	X	140	-		Alarm Status	Sensor error Room temp 2
AlaData.AlaPt53_Status	X	141	-		Alarm Status	Sensor error Extract Air temp
AlaData.AlaPt54_Status	X	142	-		Alarm Status	Sensor error Extra sensor
AlaData.AlaPt55_Status	X	143	-		Alarm Status	Sensor error SAF pressure
AlaData.AlaPt56_Status	X	144	-		Alarm Status	Sensor error EAF pressure
AlaData.AlaPt57_Status	X	145	-		Alarm Status	Sensor error Deicing temp
AlaData.AlaPt58_Status	X	146	-		Alarm Status	Sensor error Frost Protection temp
AlaData.AlaPt59_Status	X	147	-		Alarm Status	Sensor error CO <sub>2</sub>
AlaData.AlaPt60_Status	X	148	-		Alarm Status	Sensor error Humidity room
AlaData.AlaPt61_Status	X	149	-		Alarm Status	Sensor error Humidity duct
VentActual.Cor_ExtraUnitTemp(0)	R	150	AV, 40150		Extra Unit	Extra Unit temp

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_ExtSAFControl	R	151	AV, 40151		SAF/EAF Pressure and Flow	External SAF signal control (%)
VentActual.Cor_ExtEAFControl	R	152	AV, 40152		SAF/EAF Pressure and Flow	External EAF signal control (%)
VentActual. Cor_SAFPressure2	R	153	AV, 40153		SAF/EAF Pressure and Flow	Pressure transmitter 2 supply air (Pa)
VentActual.Cor_SAFAirFlow2	R	154	AV, 40154		SAF/EAF Pressure and Flow	Counted air flow m3/h supply air 2 airflow = Cor_AirFlowK * Cor_SAFPressure2^Cor_AirFlowx)
VentActual.Cor_HumidityOutdoor	R	155	AV, 40155		Humidity	Humidity outdoor
AlaData.AlaPt62_Status	X	156	-		Alarm Status	Sensor error Extra unit temp
AlaData.AlaPt63_Status	X	157	-		Alarm Status	Sensor error External control SAF
AlaData.AlaPt64_Status	X	158	-		Alarm Status	Sensor error External control EAF
AlaData.AlaPt65_Status	X	159	-		Alarm Status	Sensor error SAF Pressure 2
AlaData.AlaPt66_Status	X	160	-		Alarm Status	Sensor error Humidity Outdoor
AlaData.AlaPt67_Status	X	161	-		Alarm Status	Sensor error Reserved 1
AlaData.AlaPt68_Status	X	162	-		Alarm Status	Sensor error Reserved 2
AlaData.AlaPt69_Status	X	163	-		Alarm Status	Sensor error Reserved 3
AlaData.AlaPt70_Status	X	164	-		Alarm Status	Sensor error Reserved 4
AlaData.AlaPt71_Status	X	165	-		Alarm Status	Sensor error Reserved 5
AlaData.AlaPt72_Status	X	166	-		Alarm Status	Sensor error Reserved 6
AlaData.AlaPt73_Status	X	167	-		Alarm Status	Sensor error Reserved 7
AlaData.AlaPt74_Status	X	168	-		Alarm Status	Sensor error Reserved 8
AlaData.AlaPt75_Status	X	169	-		Alarm Status	Sensor error Reserved 9
AlaData.AlaPt76_Status	X	170	-		Alarm Status	Sensor error Reserved 10
AlaData.AlaPt77_Status	X	171	-		Alarm Status	Alarm Frequency Converter SAF
AlaData.AlaPt78_Status	X	172	-		Alarm Status	Alarm Frequency Converter EAF
AlaData.AlaPt79_Status	X	173	-		Alarm Status	Communication error Frequency SAF
AlaData.AlaPt80_Status	X	174	-		Alarm Status	Communication error Frequency EAF

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
AlaData.AlaPt81_Status	X	175	-		Alarm Status	Communication error Expansion unit 1
AlaData.AlaPt82_Status	X	176	-		Alarm Status	Communication error Expansion unit 2
AlaData.AlaPt83_Status	X	177	-		Alarm Status	Warning Frequency Converter SAF
AlaData.AlaPt84_Status	X	178	-		Alarm Status	Warning Frequency Converter EAF
AlaData.AlaPt85_Status	X	179	-		Alarm Status	Output in manual mode
AlaData.AlaPt86_Status	X	180	-		Alarm Status	Time for service
AlaData.AlaPt87_Status	X	181	-		Alarm Status	Manual Y4-Extra Sequence control
VentActual.Cor_ExpAnalogInput(0)	R	182	-		Analogue inputs	The scaled and filtered value of AI1 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(1)	R	183	-		Analogue inputs	The scaled and filtered value of AI2 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(2)	R	184	-		Analogue inputs	The scaled and filtered value of AI3 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(3)	R	185	-		Analogue inputs	The scaled and filtered value of AI4 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(4)	R	186	-		Universal inputs	The scaled and filtered value of UAI1 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(5)	R	187	-		Universal inputs	The scaled and filtered value of UAI2 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(6)	R	188	-		Universal inputs	The scaled and filtered value of UAI3 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(7)	R	189	-		Universal inputs	The scaled and filtered value of UAI3 Exp.Unit 1
VentActual.Cor_ExpAnalogInput(8)	R	190	-		Analogue inputs	The scaled and filtered value of AI1 Exp.Unit 2
VentActual.Cor_ExpAnalogInput(9)	R	191	-		Analogue inputs	The scaled and filtered value of AI2 Exp.Unit 2
VentActual.Cor_ExpAnalogInput(10)	R	192	-		Analogue inputs	The scaled and filtered value of AI3 Exp.Unit 2
VentActual.Cor_ExpAnalogInput(11)	R	193	-		Analogue inputs	The scaled and filtered value of AI4 Exp.Unit 2
VentActual.Cor_ExpAnalogInput(12)	R	194	-		Universal inputs	The scaled and filtered value of UAI1 Exp.Unit 2
VentActual.Cor_ExpAnalogInput(13)	R	195	-		Universal inputs	The scaled and filtered value of UAI2 Exp.Unit 2

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_ExpAnalogInput(14)	R	196	-		Universal inputs	The scaled and filtered value of UAI3 Exp.Unit 2
VentActual.Cor_ExpAnalogInput(15)	R	197	-		Universal inputs	The scaled and filtered value of UAI3 Exp.Unit 2
VentSettings.Cor_ExpAi(0)	X	198	-		Analogue inputs	Connected signal on AI1 Exp. Unit 1: 0=Not used 1=Outdoortemp 2=Supplytemp 3=Extracttemp 4=Roomtemp1 5=Roomtemp2 6=Exhausttemp 7=Extrasensor 8=SAF pressure 9=EAF pressure 10=Deicingtemp 11=Frost prot.temp 12=CO <sub>2</sub> 13=Humidity room 14=Humidity duct 15=Extra unit temp 16=External SAF control 17=External EAF control 18=SAF pressure 2 19=Humidity outdoor
VentSettings.Cor_ExpAi(1)	X	199	-		Analogue inputs	Connected signal on AI2 Exp. Unit 1
VentSettings.Cor_ExpAi(2)	X	200	-		Analogue inputs	Connected signal on AI3 Exp. Unit 1
VentSettings.Cor_ExpAi(3)	X	201	-		Analogue inputs	Connected signal on AI4 Exp. Unit 1
VentSettings.Cor_ExpAi(4)	X	202	-		Analogue inputs	Connected signal on UAI1 Exp. Unit 1
VentSettings.Cor_ExpAi(5)	X	203	-		Analogue inputs	Connected signal on UAI2 Exp. Unit 1
VentSettings.Cor_ExpAi(6)	X	204	-		Analogue inputs	Connected signal on UAI3 Exp. Unit 1
VentSettings.Cor_ExpAi(7)	X	205	-		Analogue inputs	Connected signal on UAI4 Exp. Unit 1
VentSettings.Cor_ExpAi(8)	X	206	-		Analogue inputs	Connected signal on AI1 Exp. Unit 2
VentSettings.Cor_ExpAi(9)	X	207	-		Analogue inputs	Connected signal on AI2 Exp. Unit 2
VentSettings.Cor_ExpAi(10)	X	208	-		Analogue inputs	Connected signal on AI3

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						Exp. Unit 2
VentSettings.Cor_ExpAi(11)	X	209	-		Analogue inputs	Connected signal on AI4 Exp. Unit 2
VentSettings.Cor_ExpAi(12)	X	210	-		Analogue inputs	Connected signal on UAI1 Exp. Unit 2
VentSettings.Cor_ExpAi(13)	X	211	-		Analogue inputs	Connected signal on UAI2 Exp. Unit 2
VentSettings.Cor_ExpAi(14)	X	212	-		Analogue inputs	Connected signal on UAI3 Exp. Unit 2
VentSettings.Cor_ExpAi(15)	X	213	-		Analogue inputs	Connected signal on UAI4 Exp. Unit 2
VentSettings.Cor_ExpDi(0)	X	214	-		Digital inputs	Connected signal on DI1 Exp. Unit 1: 0=Not used 1=SAF-Ind 2=EAF-Ind 3=P1-Heating 4=P1-Exchanger 5=P1-Cooling 6=Filter guard 7=Fire alarm 8=Fire damper-ind 9=Ext run 1/1 10=Ext run 1/2 11=External alarm 12=External switch 13=Flow guard 14=Rot.sent.exch 15=De-icing 16=Frostprotection 17=Overheatprotection 18=Recirculation run 19=Change over 20=Filter guard 2
VentSettings.Cor_ExpDi(1)	X	215	-		Digital inputs	Connected signal on DI2 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(2)	X	216	-		Digital inputs	Connected signal on DI3 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(3)	X	217	-		Digital inputs	Connected signal on DI4 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(4)	X	218	-		Digital inputs	Connected signal on DI5 Exp. Unit 1: (See signal list for DI1)

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_ExpDi(5)	X	219	-		Digital inputs	Connected signal on DI6 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(6)	X	220	-		Digital inputs	Connected signal on DI7 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(7)	X	221	-		Digital inputs	Connected signal on DI8 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(8)	X	222	-		Digital inputs	Connected signal on UDI1 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(9)	X	223	-		Digital inputs	Connected signal on UDI2 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(10)	X	224	-		Digital inputs	Connected signal on UDI3 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(11)	X	225	-		Digital inputs	Connected signal on UDI4 Exp. Unit 1: (See signal list for DI1)
VentSettings.Cor_ExpDi(12)	X	226	-		Digital inputs	Connected signal on DI1 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(13)	X	227	-		Digital inputs	Connected signal on DI2 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(14)	X	228	-		Digital inputs	Connected signal on DI3 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(15)	X	229	-		Digital inputs	Connected signal on DI4 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(16)	X	230	-		Digital inputs	Connected signal on DI5 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(17)	X	231	-		Digital inputs	Connected signal on DI6 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(18)	X	232	-		Digital inputs	Connected signal on DI7 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(19)	X	233	-		Digital inputs	Connected signal on DI8 Exp. Unit 2:



## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						(See signal list for DI1)
VentSettings.Cor_ExpDi(20)	X	234	-		Digital inputs	Connected signal on UDI1 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(21)	X	235	-		Digital inputs	Connected signal on UDI2 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(22)	X	236	-		Digital inputs	Connected signal on UDI3 Exp. Unit 2: (See signal list for DI1)
VentSettings.Cor_ExpDi(23)	X	237	-		Digital inputs	Connected signal on UDI4 Exp. Unit 2: (See signal list for DI1)
InputOutput.Exp1AnaOut1	R	238	-		Analogue outputs	Value of AO1 Exp. Unit 1
InputOutput.Exp1AnaOut2	R	239	-		Analogue outputs	Value of AO2 Exp. Unit 1
InputOutput.Exp1AnaOut3	R	240	-		Analogue outputs	Value of AO3 Exp. Unit 1
InputOutput.Exp1AnaOut4	R	241	-		Analogue outputs	Value of AO4 Exp. Unit 1
InputOutput.Exp1AnaOut5	R	242	-		Analogue outputs	Value of AO5 Exp. Unit 1
InputOutput.Exp2AnaOut1	R	243	-		Analogue outputs	Value of AO1 Exp. Unit 2
InputOutput.Exp2AnaOut2	R	244	-		Analogue outputs	Value of AO2 Exp. Unit 2
InputOutput.Exp2AnaOut3	R	245	-		Analogue outputs	Value of AO3 Exp. Unit 2
InputOutput.Exp2AnaOut4	R	246	-		Analogue outputs	Value of AO4 Exp. Unit 2
InputOutput.Exp2AnaOut5	R	247	-		Analogue outputs	Value of AO5 Exp. Unit 2
VentSettings.Cor_ExpAo(0)	X	248	-		Analogue outputs	Connected signal on AO1 Exp. Unit 1: 0=Not used 1=Y1-Heating 2=Y2-Exchanger 3=Y3-Cooling 4=SAF 5=EAF 6=Y6-Humidity 7=Split of Y1, Y2 or Y3 8=Extra unit 9=Heat/Cool (change over) 10=Extra sequence Y4
VentSettings.Cor_ExpAo(1)	X	249	-		Analogue outputs	Connected signal on AO2 Exp. Unit 1: (See signal list for AO1)
VentSettings.Cor_ExpAo(2)	X	250	-		Analogue outputs	Connected signal on AO3 Exp. Unit 1: (See signal list for AO1)

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_ExpAo(3)	X	251	-		Analogue outputs	Connected signal on AO4 Exp. Unit 1: (See signal list for AO1)
VentSettings.Cor_ExpAo(4)	X	252	-		Analogue outputs	Connected signal on AO5 Exp. Unit 1: (See signal list for AO1)
VentSettings.Cor_ExpAo(5)	X	253	-		Analogue outputs	Connected signal on AO1 Exp. Unit 2: (See signal list for AO1)
VentSettings.Cor_ExpAo(6)	X	254	-		Analogue outputs	Connected signal on AO2 Exp. Unit 2: (See signal list for AO1)
VentSettings.Cor_ExpAo(7)	X	255	-		Analogue outputs	Connected signal on AO3 Exp. Unit 2: (See signal list for AO1)
VentSettings.Cor_ExpAo(8)	X	256	-		Analogue outputs	Connected signal on AO4 Exp. Unit 2: (See signal list for AO1)
VentSettings.Cor_ExpAo(9)	X	257	-		Analogue outputs	Connected signal on AO5 Exp. Unit 2: (See signal list for AO1)
VentSettings.Cor_ExpDo(0)	X	258	-		Digital outputs	Connected signal on DO1 Exp. Unit 1: 0 = Not Used 1 = SAFStart1 2 = EAFStart1 3 = SAFStart2 4 = EAFStart2 5 = HeatingPumpStart 6 = ExchangerStart 7 = CoolingPumpStart 8 = FireDamper 9 = SumAlarm 10 = SumAlarmA 11 = SumAlarmB 12 = SAFFrequencyStart 13 = EAFFrequencyStart 14 = HeatingActivate 15 = ExchangerActivate 16 = CoolingActivate 17 = RecycleAirDamper 18 = FreshAirDamper 19 = ExtractAirDamper 20 = HeatingIncrease 21 = HeatingDecrease 22 = ExchangerIncrease 23 = ExchangerDecrease 24 = CoolingIncrease

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						25 = CoolingDecrease 26 = HeatStep1 27 = HeatStep2 28 = HeatStep3 29 = HeatStep4 30 = CoolStep1 31 = CoolStep2 32 = CoolStep3 33 = TimeChannel1 34 = TimeChannel2 35 = TimeChannel3 36 = TimeChannel4 37 = TimeChannel5 38 = Humidity start 39 = Extra unit start 40 = Heat/Cool step 1 41 = Heat/Cool step 2 42 = Heat/Cool step 3 43 = Night cool run
VentSettings.Cor_ExpDo(1)	X	259	-		Digital outputs	Connected signal on DO2 Exp. Unit 1: (See signal list for DO1)
VentSettings.Cor_ExpDo(2)	X	260	-		Digital outputs	Connected signal on DO3 Exp. Unit 1: (See signal list for DO1)
VentSettings.Cor_ExpDo(3)	X	261	-		Digital outputs	Connected signal on DO4 Exp. Unit 1: (See signal list for DO1)
VentSettings.Cor_ExpDo(4)	X	262	-		Digital outputs	Connected signal on DO5 Exp. Unit 1: (See signal list for DO1)
VentSettings.Cor_ExpDo(5)	X	263	-		Digital outputs	Connected signal on DO6 Exp. Unit 1: (See signal list for DO1)
VentSettings.Cor_ExpDo(6)	X	264	-		Digital outputs	Connected signal on DO7 Exp. Unit 1: (See signal list for DO1)
VentSettings.Cor_ExpDo(7)	X	265	-		Digital outputs	Connected signal on DO1 Exp. Unit 2: (See signal list for DO1)
VentSettings.Cor_ExpDo(8)	X	266	-		Digital outputs	Connected signal on DO2 Exp. Unit 2: (See signal list for DO1)
VentSettings.Cor_ExpDo(9)	X	267	-		Digital outputs	Connected signal on DO3 Exp. Unit 2: (See signal list for DO1)

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_ExpDo(10)	X	268	-		Digital outputs	Connected signal on DO4 Exp. Unit 2: (See signal list for DO1)
VentSettings.Cor_ExpDo(11)	X	269	-		Digital outputs	Connected signal on DO5 Exp. Unit 2: (See signal list for DO1)
VentSettings.Cor_ExpDo(12)	X	270	-		Digital outputs	Connected signal on DO6 Exp. Unit 2: (See signal list for DO1)
VentSettings.Cor_ExpDo(13)	X	271	-		Digital outputs	Connected signal on DO7 Exp. Unit 2: (See signal list for DO1)
VentActual.Cor_SAFMotorSpeedHz	R	272	-		SAF/EAF Pressure and Flow	SAF Motor speed Hz (Vacon)
VentActual.Cor_SAFMotorCurrent	R	273	-		SAF/EAF Pressure and Flow	SAF Motor current A (Vacon)
VentActual.Cor_SAFMotorPower	R	274	-		SAF/EAF Pressure and Flow	SAF Motor Power % of nominal (Vacon)
VentActual.Cor_SAFAccumPower	R	275	-		SAF/EAF Pressure and Flow	SAF Accumulated Power consumption (Vacon)
VentActual.Cor_EAFMotorSpeedHz	R	276	-		SAF/EAF Pressure and Flow	EAF Motor speed Hz (Vacon)
VentActual.Cor_EAFMotorCurrent	R	277	-		SAF/EAF Pressure and Flow	EAF Motor current A (Vacon)
VentActual.Cor_EAFMotorPower	R	278	-		SAF/EAF Pressure and Flow	EAF Motor Power % of nominal (Vacon)
VentActual.Cor_EAFAccumPower	R	279	-		SAF/EAF Pressure and Flow	EAF Accumulated Power consumption (Vacon)
VentActual.Cor_ExtraUnitCV1(0)	R	280	AV, 40280		Extra Unit	Control signal Extra Unit (0-10 V)
VentActual.Cor_ExtraUnitPID1_Output(0)	R	281	AV, 40281		Extra Unit	Extra Unit controller output (0-100 %)
VentActual.Cor_HeatCoolCV1	R	282	AV, 40282		Supply, Extract and Room temperatures	Control signal Heating or Cooling controlled by changeover (0-10 V)
VentActual.Cor_ExtraSeqCV1	R	283	AV, 40283		Supply, Extract and Room temperatures	Control signal extra sequence Y4 (0-10 V)
VentActual.Cor_UnitRunMode	X	284	MSV, 40284		Actual/Setpoint	Unit run mode: 0=Off 1=Reduced speed 2=Normal speed 3=Stop because of alarm

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
AlaData.AlaPt88_Status	X	285	-		Alarm Status	Restart blocked after power-on
VentActual.Cor_IntakeAirTemp	R	286	AV, 40286		Actual/Setpoint	Intake air temperature
VentActual.Cor_ExtraSensor2	R	287	AV, 40287		Actual/Setpoint	Extrasensor 2 temperature
VentActual.Cor_ExtraSensor3	R	288	AV, 40288		Actual/Setpoint	Extrasensor 3 temperature
VentActual.Cor_ExtraSensor4	R	289	AV, 40289		Actual/Setpoint	Extrasensor 4 temperature
VentActual.Cor_ExtraSensor5	R	290	AV, 40290		Actual/Setpoint	Extrasensor 5 temperature
VentActual.Cor_ExtraSAFPressure	R	291	AV, 40291		SAF/EAF Pressure and Flow	Extrasensor SAF Pressure
VentActual.Cor_ExtraEAFPressure	R	292	AV, 40292		SAF/EAF Pressure and Flow	Extrasensor EAF Pressure
VentActual.Cor_ExtraSAFAirFlow	R	293	AV, 40293		SAF/EAF Pressure and Flow	Extrasensor SAF Flow
VentActual.Cor_ExtraEAFAirFlow	R	294	AV, 40294		SAF/EAF Pressure and Flow	Extrasensor EAF Flow
VentActual.Cor_ExternalFlowSetP	R	295	-		SAF/EAF Pressure and Flow	External setpoint SAF airflow (m <sup>3</sup> /h)
VentActual.Cor_ExtraSeqY5	R	296	AV, 40296		Analogue outputs	Control valve Extra sequence Y5 (0...10 V)
AlaData.AlaPt89_Status	X	297	-		Alarm Status	Manual Y5-Extra Sequence
VentActual.Cor_SFP	R	298	-		SFP (Specific Fan Power)	Actual SFP (kW/m <sup>3</sup> /s)
VentActual.Cor_SFPDay	R	299	-		SFP (Specific Fan Power)	Day average SFP
VentActual.Cor_SFPMonth	R	300	-		SFP (Specific Fan Power)	Month average (30 day average) SFP
VentActual.Cor_FilterGuard1AI	R	301	AV, 40301		Actual/Setpoint	Analogue filter 1 value (Pa)
VentActual.Cor_FilterGuard2AI	R	302	AV, 40302		Actual/Setpoint	Analogue filter 2 value (Pa)
AlaData.AlaPt90_Status	X	303	-		Alarm Status	Filter guard 2
AlaData.AlaPt91_Status	X	304	-		Alarm Status	High temp Extra sensor 1
AlaData.AlaPt92_Status	X	305	-		Alarm Status	Low temp Extra sensor 1
AlaData.AlaPt93_Status	X	306	-		Alarm Status	High temp Extra sensor 2
AlaData.AlaPt94_Status	X	307	-		Alarm Status	Low temp Extra sensor 2
AlaData.AlaPt95_Status	X	308	-		Alarm Status	High temp Extra sensor 3
AlaData.AlaPt96_Status	X	309	-		Alarm Status	Low temp Extra sensor 3
AlaData.AlaPt97_Status	X	310	-		Alarm Status	High temp Extra sensor 4
AlaData.AlaPt98_Status	X	311	-		Alarm Status	Low temp Extra sensor 4

## Input Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
AlaData.AlaPt99_Status	X	312	-		Alarm Status	High temp Extra sensor 5
AlaData.AlaPt100_Status	X	313	-		Alarm Status	Low temp Extra sensor 5

## 7 Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_SupplySetpoint	R	1	AV, 30001	18°C	Supply, Extract and Room temperatures	Setpoint supply air temperature when constant supply air temperature function
VentSettings.Cor_Curve1_X1	R	2	-	-20°C	Supply, Extract and Room temperatures	Outdoor temp for first curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X2	R	3	-	-15°C	Supply, Extract and Room temperatures	Outdoor temp for second curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X3	R	4	-	-10°C	Supply, Extract and Room temperatures	Outdoor temp for third curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X4	R	5	-	-5°C	Supply, Extract and Room temperatures	Outdoor temp for fourth curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X5	R	6	-	0°C	Supply, Extract and Room temperatures	Outdoor temp for fifth curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X6	R	7	-	5°C	Supply, Extract and Room temperatures	Outdoor temp for sixth curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X7	R	8	-	10°C	Supply, Extract and Room temperatures	Outdoor temp for seventh curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_X8	R	9	-	15°C	Supply, Extract and Room temperatures	Outdoor temp for eighth curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y1	R	10	-	25°C	Supply, Extract and Room temperatures	Setpoint for first curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y2	R	11	-	24°C	Supply, Extract and Room temperatures	Setpoint for second curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y3	R	12	-	23°C	Supply, Extract and Room temperatures	Setpoint for third curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y4	R	13	-	23°C	Supply, Extract and Room temperatures	Setpoint for fourth curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y5	R	14	-	22°C	Supply, Extract	Setpoint for fifth curvepoint

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
					and Room temperatures	for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y6	R	15	-	20°C	Supply, Extract and Room temperatures	Setpoint for sixth curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y7	R	16	-	18°C	Supply, Extract and Room temperatures	Setpoint for seventh curvepoint for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y8	R	17	-	18°C	Supply, Extract and Room temperatures	Setpoint for eight curvepoint for outdoor compensated setpoint
VentSettings.Cor_ExhaustSetpoint	R	18	AV, 30018	21°C	Supply, Extract and Room temperatures	Setpoint extract air temp if extract air temp control function
VentSettings.Cor_RoomSetP	R	19	AV, 30019	21°C	Supply, Extract and Room temperatures	Room setpoint if room temp control function
VentSettings.Cor_NeedHeatStart	R	20	AV, 30020	15°C	Supply, Extract and Room temperatures	Room temp for start the unit if intermittent heating control is active
VentSettings.Cor_NeedHeatStop	R	21	AV, 30021	21°C	Supply, Extract and Room temperatures	Room temp for stop the unit if intermittent heating control is active
VentSettings.Cor_NeedCoolStart	R	22	AV, 30022	30°C	Supply, Extract and Room temperatures	Room temp for start the unit if intermittent cooling control is active
VentSettings.Cor_NeedCoolStop	R	23	AV, 30023	28°C	Supply, Extract and Room temperatures	Room temp for stop the unit if intermittent cooling control is active
VentSettings.Cor_SAFFullspeedPressure	R	24	AV, 30024	500 Pa	SAF/EAF Pressure and Flow	Setpoint full speed supply air fan pressure
VentSettings.Cor_SAFHalfspeedPressure	R	25	AV, 30025	250 Pa	SAF/EAF Pressure and Flow	Setpoint reduced speed supply air fan pressure
VentSettings.Cor_EAFFullspeedPressure	R	26	AV, 30026	500 Pa	SAF/EAF Pressure and Flow	Setpoint full speed extract air fan pressure
VentSettings.Cor_EAFHalfspeedPressure	R	27	AV, 30027	250 Pa	SAF/EAF Pressure and Flow	Setpoint reduced speed extract air fan pressure
VentSettings.Cor_SAFFullspeedAirFlow	R	28	AV, 30028	2000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint full speed supply air fan flow. Scale factor = 1



## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_SAFHalfspeedAirFlow	R	29	AV, 30029	1000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint reduced speed supply air fan flow. Scale factor = 1
VentSettings.Cor_EAFFullspeedAirFlow	R	30	AV, 30030	2000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint full speed extract air fan flow. Scale factor = 1
VentSettings.Cor_EAFHalfspeedAirFlow	R	31	AV, 30031	1000 m <sup>3</sup> /h	SAF/EAF Pressure and Flow	Setpoint reduced speed extract air fan flow. Scale factor = 1
VentSettings.Cor_CO2Setpoint	R	32	AV, 30032	1000 ppm	CO <sub>2</sub>	Setpoint CO <sub>2</sub>
VentSettings.Cor_FrostProtSPStop	R	33	AV, 30033	25°C	Frost protection	Setpoint frost protection if the ventilation unit is stoped
VentSettings.Cor_FrostProtPGain	R	34	AV, 30034	5°C	Frost protection	P-Gain frost protection when running (alarm limit+PGain)
VentSettings.Cor_DeIcingSetpoint	R	35	AV, 30035	-3°C	Extract air temp/De-icing exchanger	Setpoint de-icing temp
VentSettings.Cor_DeIcingHyst	R	36	AV, 30036	1°C	Extract air temp/De-icing exchanger	Hysteresis for stop of de- icing
VentSettings.Cor_HumiditySetpoint	R	37	AV, 30037	50 % RH	Humidity	Setpoint humidity room
VentSettings.Cor_HumidityMaxDuct	R	38	AV, 30038	80 % RH	Humidity	Max limit humidity duct
VentSettings.Cor_HumidityHyst	R	39	AV, 30039	20 % RH	Humidity	Hysteresis to start humidity control after stop max limitation
TimeDp.Posts(0).T1	R	40	-	7	Timer Normal Speed	Start time period 1 Monday normal speed (HH.MM)
TimeDp.Posts(0).T2	R	41	-	16	Timer Normal Speed	Stop time period 1 Monday normal speed
TimeDp.Posts(0).T3	R	42	-	0	Timer Normal Speed	Start time period 2 Monday normal speed
TimeDp.Posts(0).T4	R	43	-	0	Timer Normal Speed	Stop time period 2 Monday normal speed
TimeDp.Posts(1).T1	R	44	-	7	Timer Normal Speed	Start time period 1 Tuesday normal speed
TimeDp.Posts(1).T2	R	45	-	16	Timer Normal Speed	Stop time period 1 Tuesday normal speed
TimeDp.Posts(1).T3	R	46	-	0	Timer Normal Speed	Start time period 2 Tuesday normal speed

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(1).T4	R	47	-	0	Timer Normal Speed	Stop time period 2 Tuesday normal speed
TimeDp.Posts(2).T1	R	48	-	7	Timer Normal Speed	Start time period 1 Wedn. normal speed
TimeDp.Posts(2).T2	R	49	-	16	Timer Normal Speed	Stop time period 1 Wedn. normal speed
TimeDp.Posts(2).T3	R	50	-	0	Timer Normal Speed	Start time period 2 Wedn. normal speed
TimeDp.Posts(2).T4	R	51	-	0	Timer Normal Speed	Stop time period 2 Wedn. normal speed
TimeDp.Posts(3).T1	R	52	-	7	Timer Normal Speed	Start time period 1 Thursday normal speed
TimeDp.Posts(3).T2	R	53	-	16	Timer Normal Speed	Stop time period 1 Thursday normal speed
TimeDp.Posts(3).T3	R	54	-	0	Timer Normal Speed	Start time period 2 Thursday normal speed
TimeDp.Posts(3).T4	R	55	-	0	Timer Normal Speed	Stop time period 2 Thursday normal speed
TimeDp.Posts(4).T1	R	56	-	7	Timer Normal Speed	Start time period 1 Friday normal speed
TimeDp.Posts(4).T2	R	57	-	16	Timer Normal Speed	Stop time period 1 Friday normal speed
TimeDp.Posts(4).T3	R	58	-	0	Timer Normal Speed	Start time period 2 Friday normal speed
TimeDp.Posts(4).T4	R	59	-	0	Timer Normal Speed	Stop time period 2 Friday normal speed
TimeDp.Posts(5).T1	R	60	-	0	Timer Normal Speed	Start time period 1 Saturday normal speed
TimeDp.Posts(5).T2	R	61	-	0	Timer Normal Speed	Stop time period 1 Saturday normal speed
TimeDp.Posts(5).T3	R	62	-	0	Timer Normal Speed	Start time period 2 Saturday normal speed
TimeDp.Posts(5).T4	R	63	-	0	Timer Normal Speed	Stop time period 2 Saturday normal speed
TimeDp.Posts(6).T1	R	64	-	0	Timer Normal Speed	Start time period 1 Sunday normal speed
TimeDp.Posts(6).T2	R	65	-	0	Timer Normal Speed	Stop time period 1 Sunday normal speed
TimeDp.Posts(6).T3	R	66	-	0	Timer Normal Speed	Start time period 2 Sunday normal speed

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(6).T4	R	67	-	0	Timer Normal Speed	Stop time period 2 Sunday normal speed
TimeDp.Posts(7).T1	R	68	-	0	Timer Normal Speed	Start time period 1 Holiday normal speed
TimeDp.Posts(7).T2	R	69	-	0	Timer Normal Speed	Stop time period 1 Holiday normal speed
TimeDp.Posts(7).T3	R	70	-	0	Timer Normal Speed	Start time period 2 Holiday normal speed
TimeDp.Posts(7).T4	R	71	-	0	Timer Normal Speed	Stop time period 2 Holiday normal speed
TimeDp.Posts(8).T1	R	72	-	0	Timer Reduced Speed	Start time period 1 Monday reduced speed (HH.MM)
TimeDp.Posts(8).T2	R	73	-	0	Timer Reduced Speed	Stop time period 1 Monday reduced speed
TimeDp.Posts(8).T3	R	74	-	0	Timer Reduced Speed	Start time period 2 Monday reduced speed
TimeDp.Posts(8).T4	R	75	-	0	Timer Reduced Speed	Stop time period 2 Monday reduced speed
TimeDp.Posts(9).T1	R	76	-	0	Timer Reduced Speed	Start time period 1 Tuesday reduced speed
TimeDp.Posts(9).T2	R	77	-	0	Timer Reduced Speed	Stop time period 1 Tuesday reduced speed
TimeDp.Posts(9).T3	R	78	-	0	Timer Reduced Speed	Start time period 2 Tuesday reduced speed
TimeDp.Posts(9).T4	R	79	-	0	Timer Reduced Speed	Stop time period 2 Tuesday reduced speed
TimeDp.Posts(10).T1	R	80	-	0	Timer Reduced Speed	Start time period 1 Wedn. reduced speed
TimeDp.Posts(10).T2	R	81	-	0	Timer Reduced Speed	Stop time period 1 Wedn. reduced speed
TimeDp.Posts(10).T3	R	82	-	0	Timer Reduced Speed	Start time period 2 Wedn. reduced speed
TimeDp.Posts(10).T4	R	83	-	0	Timer Reduced Speed	Stop time period 2 Wedn. reduced speed
TimeDp.Posts(11).T1	R	84	-	0	Timer Reduced Speed	Start time period 1 Thursday red.speed
TimeDp.Posts(11).T2	R	85	-	0	Timer Reduced Speed	Stop time period 1 Thursday red. speed
TimeDp.Posts(11).T3	R	86	-	0	Timer Reduced Speed	Start time period 2 Thursday red. speed

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(11).T4	R	87	-	0	Timer Reduced Speed	Stop time period 2 Thursday red. speed
TimeDp.Posts(12).T1	R	88	-	0	Timer Reduced Speed	Start time period 1 Friday reduced speed
TimeDp.Posts(12).T2	R	89	-	0	Timer Reduced Speed	Stop time period 1 Friday reduced speed
TimeDp.Posts(12).T3	R	90	-	0	Timer Reduced Speed	Start time period 2 Friday reduced speed
TimeDp.Posts(12).T4	R	91	-	0	Timer Reduced Speed	Stop time period 2 Friday reduced speed
TimeDp.Posts(13).T1	R	92	-	0	Timer Reduced Speed	Start time period 1 Saturday red. speed
TimeDp.Posts(13).T2	R	93	-	0	Timer Reduced Speed	Stop time period 1 Saturday red. speed
TimeDp.Posts(13).T3	R	94	-	0	Timer Reduced Speed	Start time period 2 Saturday red. speed
TimeDp.Posts(13).T4	R	95	-	0	Timer Reduced Speed	Stop time period 2 Saturday red. speed
TimeDp.Posts(14).T1	R	96	-	0	Timer Reduced Speed	Start time period 1 Sunday reduced speed
TimeDp.Posts(14).T2	R	97	-	0	Timer Reduced Speed	Stop time period 1 Sunday reduced speed
TimeDp.Posts(14).T3	R	98	-	0	Timer Reduced Speed	Start time period 2 Sunday reduced speed
TimeDp.Posts(14).T4	R	99	-	0	Timer Reduced Speed	Stop time period 2 Sunday reduced speed
TimeDp.Posts(15).T1	R	100	-	0	Timer Reduced Speed	Start time period 1 Holiday reduced speed
TimeDp.Posts(15).T2	R	101	-	0	Timer Reduced Speed	Stop time period 1 Holiday reduced speed
TimeDp.Posts(15).T3	R	102	-	0	Timer Reduced Speed	Start time period 2 Holiday reduced speed
TimeDp.Posts(15).T4	R	103	-	0	Timer Reduced Speed	Stop time period 2 Holiday reduced speed
TimeDp.Posts(16).T1	R	104	-	7	Timer Output 1	Start time period 1 Monday timer output 1 (HH.MM)
TimeDp.Posts(16).T2	R	105	-	16	Timer Output 1	Stop time period 1 Monday timer output 1
TimeDp.Posts(16).T3	R	106	-	0	Timer Output 1	Start time period 2 Monday timer output 1

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(16).T4	R	107	-	0	Timer Output 1	Stop time period 2 Monday timer output 1
TimeDp.Posts(17).T1	R	108	-	7	Timer Output 1	Start time period 1 Tuesday timer output 1
TimeDp.Posts(17).T2	R	109	-	16	Timer Output 1	Stop time period 1 Tuesday timer output 1
TimeDp.Posts(17).T3	R	110	-	0	Timer Output 1	Start time period 2 Tuesday timer output 1
TimeDp.Posts(17).T4	R	111	-	0	Timer Output 1	Stop time period 2 Tuesday timer output 1
TimeDp.Posts(18).T1	R	112	-	7	Timer Output 1	Start time period 1 Wednesd.timer output 1
TimeDp.Posts(18).T2	R	113	-	16	Timer Output 1	Stop time period 1 Wedn. timer output 1
TimeDp.Posts(18).T3	R	114	-	0	Timer Output 1	Start time period 2 Wedn. timer output 1
TimeDp.Posts(18).T4	R	115	-	0	Timer Output 1	Stop time period 2 Wedn. timer output 1
TimeDp.Posts(19).T1	R	116	-	7	Timer Output 1	Start time period 1 Thursday timer output 1
TimeDp.Posts(19).T2	R	117	-	16	Timer Output 1	Stop time period 1 Thursday timer output 1
TimeDp.Posts(19).T3	R	118	-	0	Timer Output 1	Start time period 2 Thursday timer output 1
TimeDp.Posts(19).T4	R	119	-	0	Timer Output 1	Stop time period 2 Thursday timer output 1
TimeDp.Posts(20).T1	R	120	-	7	Timer Output 1	Start time period 1 Friday timer output 1
TimeDp.Posts(20).T2	R	121	-	16	Timer Output 1	Stop time period 1 Friday timer output 1
TimeDp.Posts(20).T3	R	122	-	0	Timer Output 1	Start time period 2 Friday timer output 1
TimeDp.Posts(20).T4	R	123	-	0	Timer Output 1	Stop time period 2 Friday timer output 1
TimeDp.Posts(21).T1	R	124	-	0	Timer Output 1	Start time period 1 Saturday timer output 1
TimeDp.Posts(21).T2	R	125	-	0	Timer Output 1	Stop time period 1 Saturday timer output 1
TimeDp.Posts(21).T3	R	126	-	0	Timer Output 1	Start time period 2 Saturday timer output 1

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(21).T4	R	127	-	0	Timer Output 1	Stop time period 2 Saturday timer output 1
TimeDp.Posts(22).T1	R	128	-	0	Timer Output 1	Start time period 1 Sunday timer output 1
TimeDp.Posts(22).T2	R	129	-	0	Timer Output 1	Stop time period 1 Sunday timer output 1
TimeDp.Posts(22).T3	R	130	-	0	Timer Output 1	Start time period 2 Sunday timer output 1
TimeDp.Posts(22).T4	R	131	-	0	Timer Output 1	Stop time period 2 Sunday timer output 1
TimeDp.Posts(23).T1	R	132	-	0	Timer Output 1	Start time period 1 Holiday timer output 1
TimeDp.Posts(23).T2	R	133	-	0	Timer Output 1	Stop time period 1 Holiday timer output 1
TimeDp.Posts(23).T3	R	134	-	0	Timer Output 1	Start time period 2 Holiday timer output 1
TimeDp.Posts(23).T4	R	135	-	0	Timer Output 1	Stop time period 2 Holiday timer output 1
TimeDp.Posts(24).T1	R	136	-	7	Timer Output 2	Start time period 1 Monday timer output 2 (HH.MM)
TimeDp.Posts(24).T2	R	137	-	16	Timer Output 2	Stop time period 1 Monday timer output 2
TimeDp.Posts(24).T3	R	138	-	0	Timer Output 2	Start time period 2 Monday timer output 2
TimeDp.Posts(24).T4	R	139	-	0	Timer Output 2	Stop time period 2 Monday timer output 2
TimeDp.Posts(25).T1	R	140	-	7	Timer Output 2	Start time period 1 Tuesday timer output 2
TimeDp.Posts(25).T2	R	141	-	16	Timer Output 2	Stop time period 1 Tuesday timer output 2
TimeDp.Posts(25).T3	R	142	-	0	Timer Output 2	Start time period 2 Tuesday timer output 2
TimeDp.Posts(25).T4	R	143	-	0	Timer Output 2	Stop time period 2 Tuesday timer output 2
TimeDp.Posts(26).T1	R	144	-	7	Timer Output 2	Start time period 1 Wedn. timer output 2
TimeDp.Posts(26).T2	R	145	-	16	Timer Output 2	Stop time period 1 Wedn. timer output 2
TimeDp.Posts(26).T3	R	146	-	0	Timer Output 2	Start time period 2 Wedn. timer output 2

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(26).T4	R	147	-	0	Timer Output 2	Stop time period 2 Wedn. timer output 2
TimeDp.Posts(27).T1	R	148	-	7	Timer Output 2	Start time period 1 Thursday timer output 2
TimeDp.Posts(27).T2	R	149	-	16	Timer Output 2	Stop time period 1 Thursday timer output 2
TimeDp.Posts(27).T3	R	150	-	0	Timer Output 2	Start time period 2 Thursday timer output 2
TimeDp.Posts(27).T4	R	151	-	0	Timer Output 2	Stop time period 2 Thursday timer output 2
TimeDp.Posts(28).T1	R	152	-	7	Timer Output 2	Start time period 1 Friday timer output 2
TimeDp.Posts(28).T2	R	153	-	16	Timer Output 2	Stop time period 1 Friday timer output 2
TimeDp.Posts(28).T3	R	154	-	0	Timer Output 2	Start time period 2 Friday timer output 2
TimeDp.Posts(28).T4	R	155	-	0	Timer Output 2	Stop time period 2 Friday timer output 2
TimeDp.Posts(29).T1	R	156	-	0	Timer Output 2	Start time period 1 Saturday timer output 2
TimeDp.Posts(29).T2	R	157	-	0	Timer Output 2	Stop time period 1 Saturday timer output 2
TimeDp.Posts(29).T3	R	158	-	0	Timer Output 2	Start time period 2 Saturday timer output 2
TimeDp.Posts(29).T4	R	159	-	0	Timer Output 2	Stop time period 2 Saturday timer output 2
TimeDp.Posts(30).T1	R	160	-	0	Timer Output 2	Start time period 1 Sunday timer output 2
TimeDp.Posts(30).T2	R	161	-	0	Timer Output 2	Stop time period 1 Sunday timer output 2
TimeDp.Posts(30).T3	R	162	-	0	Timer Output 2	Start time period 2 Sunday timer output 2
TimeDp.Posts(30).T4	R	163	-	0	Timer Output 2	Stop time period 2 Sunday timer output 2
TimeDp.Posts(31).T1	R	164	-	0	Timer Output 2	Start time period 1 Holiday timer output 2
TimeDp.Posts(31).T2	R	165	-	0	Timer Output 2	Stop time period 1 Holiday timer output 2
TimeDp.Posts(31).T3	R	166	-	0	Timer Output 2	Start time period 2 Holiday timer output 2

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(31).T4	R	167	-	0	Timer Output 2	Stop time period 2 Holiday timer output 2
TimeDp.Posts(32).T1	R	168	-	7	Timer Output 3	Start time period 1 Monday timer output 3 (HH.MM)
TimeDp.Posts(32).T2	R	169	-	16	Timer Output 3	Stop time period 1 Monday timer output 3
TimeDp.Posts(32).T3	R	170	-	0	Timer Output 3	Start time period 2 Monday timer output 3
TimeDp.Posts(32).T4	R	171	-	0	Timer Output 3	Stop time period 2 Monday timer output 3
TimeDp.Posts(33).T1	R	172	-	7	Timer Output 3	Start time period 1 Tuesday timer output 3
TimeDp.Posts(33).T2	R	173	-	16	Timer Output 3	Stop time period 1 Tuesday timer output 3
TimeDp.Posts(33).T3	R	174	-	0	Timer Output 3	Start time period 2 Tuesday timer output 3
TimeDp.Posts(33).T4	R	175	-	0	Timer Output 3	Stop time period 2 Tuesday timer output 3
TimeDp.Posts(34).T1	R	176	-	7	Timer Output 3	Start time period 1 Wedn. timer output 3
TimeDp.Posts(34).T2	R	177	-	16	Timer Output 3	Stop time period 1 Wedn. timer output 3
TimeDp.Posts(34).T3	R	178	-	0	Timer Output 3	Start time period 2 Wedn. timer output 3
TimeDp.Posts(34).T4	R	179	-	0	Timer Output 3	Stop time period 2 Wedn. timer output 3
TimeDp.Posts(35).T1	R	180	-	7	Timer Output 3	Start time period 1 Thursday timer output 3
TimeDp.Posts(35).T2	R	181	-	16	Timer Output 3	Stop time period 1 Thursday timer output 3
TimeDp.Posts(35).T3	R	182	-	0	Timer Output 3	Start time period 2 Thursday timer output 3
TimeDp.Posts(35).T4	R	183	-	0	Timer Output 3	Stop time period 2 Thursday timer output 3
TimeDp.Posts(36).T1	R	184	-	7	Timer Output 3	Start time period 1 Friday timer output 3
TimeDp.Posts(36).T2	R	185	-	16	Timer Output 3	Stop time period 1 Friday timer output 3
TimeDp.Posts(36).T3	R	186	-	0	Timer Output 3	Start time period 2 Friday timer output 3



## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(36).T4	R	187	-	0	Timer Output 3	Stop time period 2 Friday timer output 3
TimeDp.Posts(37).T1	R	188	-	0	Timer Output 3	Start time period 1 Saturday timer output 3
TimeDp.Posts(37).T2	R	189	-	0	Timer Output 3	Stop time period 1 Saturday timer output 3
TimeDp.Posts(37).T3	R	190	-	0	Timer Output 3	Start time period 2 Saturday timer output 3
TimeDp.Posts(37).T4	R	191	-	0	Timer Output 3	Stop time period 2 Saturday timer output 3
TimeDp.Posts(38).T1	R	192	-	0	Timer Output 3	Start time period 1 Sunday timer output 3
TimeDp.Posts(38).T2	R	193	-	0	Timer Output 3	Stop time period 1 Sunday timer output 3
TimeDp.Posts(38).T3	R	194	-	0	Timer Output 3	Start time period 2 Sunday timer output 3
TimeDp.Posts(38).T4	R	195	-	0	Timer Output 3	Stop time period 2 Sunday timer output 3
TimeDp.Posts(39).T1	R	196	-	0	Timer Output 3	Start time period 1 Holiday timer output 3
TimeDp.Posts(39).T2	R	197	-	0	Timer Output 3	Stop time period 1 Holiday timer output 3
TimeDp.Posts(39).T3	R	198	-	0	Timer Output 3	Start time period 2 Holiday timer output 3
TimeDp.Posts(39).T4	R	199	-	0	Timer Output 3	Stop time period 2 Holiday timer output 3
TimeDp.Posts(40).T1	R	200	-	7	Timer Output 4	Start time period 1 Monday timer output 4 (HH.MM)
TimeDp.Posts(40).T2	R	201	-	16	Timer Output 4	Stop time period 1 Monday timer output 4
TimeDp.Posts(40).T3	R	202	-	0	Timer Output 4	Start time period 2 Monday timer output 4
TimeDp.Posts(40).T4	R	203	-	0	Timer Output 4	Stop time period 2 Monday timer output 4
TimeDp.Posts(41).T1	R	204	-	7	Timer Output 4	Start time period 1 Tuesday timer output 4
TimeDp.Posts(41).T2	R	205	-	16	Timer Output 4	Stop time period 1 Tuesday timer output 4
TimeDp.Posts(41).T3	R	206	-	0	Timer Output 4	Start time period 2 Tuesday timer output 4

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(41).T4	R	207	-	0	Timer Output 4	Stop time period 2 Tuesday timer output 4
TimeDp.Posts(42).T1	R	208	-	7	Timer Output 4	Start time period 1 Wedn. timer output 4
TimeDp.Posts(42).T2	R	209	-	16	Timer Output 4	Stop time period 1 Wedn. timer output 4
TimeDp.Posts(42).T3	R	210	-	0	Timer Output 4	Start time period 2 Wedn. timer output 4
TimeDp.Posts(42).T4	R	211	-	0	Timer Output 4	Stop time period 2 Wedn. timer output 4
TimeDp.Posts(43).T1	R	212	-	7	Timer Output 4	Start time period 1 Thursday timer output 4
TimeDp.Posts(43).T2	R	213	-	16	Timer Output 4	Stop time period 1 Thursday timer output 4
TimeDp.Posts(43).T3	R	214	-	0	Timer Output 4	Start time period 2 Thursday timer output 4
TimeDp.Posts(43).T4	R	215	-	0	Timer Output 4	Stop time period 2 Thursday timer output 4
TimeDp.Posts(44).T1	R	216	-	7	Timer Output 4	Start time period 1 Friday timer output 4
TimeDp.Posts(44).T2	R	217	-	16	Timer Output 4	Stop time period 1 Friday timer output 4
TimeDp.Posts(44).T3	R	218	-	0	Timer Output 4	Start time period 2 Friday timer output 4
TimeDp.Posts(44).T4	R	219	-	0	Timer Output 4	Stop time period 2 Friday timer output 4
TimeDp.Posts(45).T1	R	220	-	0	Timer Output 4	Start time period 1 Saturday timer output 4
TimeDp.Posts(45).T2	R	221	-	0	Timer Output 4	Stop time period 1 Saturday timer output 4
TimeDp.Posts(45).T3	R	222	-	0	Timer Output 4	Start time period 2 Saturday timer output 4
TimeDp.Posts(45).T4	R	223	-	0	Timer Output 4	Stop time period 2 Saturday timer output 4
TimeDp.Posts(46).T1	R	224	-	0	Timer Output 4	Start time period 1 Sunday timer output 4
TimeDp.Posts(46).T2	R	225	-	0	Timer Output 4	Stop time period 1 Sunday timer output 4
TimeDp.Posts(46).T3	R	226	-	0	Timer Output 4	Start time period 2 Sunday timer output 4

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(46).T4	R	227	-	0	Timer Output 4	Stop time period 2 Sunday timer output 4
TimeDp.Posts(47).T1	R	228	-	0	Timer Output 4	Start time period 1 Holiday timer output 4
TimeDp.Posts(47).T2	R	229	-	0	Timer Output 4	Stop time period 1 Holiday timer output 4
TimeDp.Posts(47).T3	R	230	-	0	Timer Output 4	Start time period 2 Holiday timer output 4
TimeDp.Posts(47).T4	R	231	-	0	Timer Output 4	Stop time period 2 Holiday timer output 4
TimeDp.Posts(48).T1	R	232	-	7	Timer Output 5	Start time period 1 Monday timer output 5 (HH.MM)
TimeDp.Posts(48).T2	R	233	-	16	Timer Output 5	Stop time period 1 Monday timer output 5
TimeDp.Posts(48).T3	R	234	-	0	Timer Output 5	Start time period 2 Monday timer output 5
TimeDp.Posts(48).T4	R	235	-	0	Timer Output 5	Stop time period 2 Monday timer output 5
TimeDp.Posts(49).T1	R	236	-	7	Timer Output 5	Start time period 1 Tuesday timer output 5
TimeDp.Posts(49).T2	R	237	-	16	Timer Output 5	Stop time period 1 Tuesday timer output 5
TimeDp.Posts(49).T3	R	238	-	0	Timer Output 5	Start time period 2 Tuesday timer output 5
TimeDp.Posts(49).T4	R	239	-	0	Timer Output 5	Stop time period 2 Tuesday timer output 5
TimeDp.Posts(50).T1	R	240	-	7	Timer Output 5	Start time period 1 Wedn. timer output 5
TimeDp.Posts(50).T2	R	241	-	16	Timer Output 5	Stop time period 1 Wedn. timer output 5
TimeDp.Posts(50).T3	R	242	-	0	Timer Output 5	Start time period 2 Wedn. timer output 5
TimeDp.Posts(50).T4	R	243	-	0	Timer Output 5	Stop time period 2 Wedn. timer output 5
TimeDp.Posts(51).T1	R	244	-	7	Timer Output 5	Start time period 1 Thursday timer output 5
TimeDp.Posts(51).T2	R	245	-	16	Timer Output 5	Stop time period 1 Thursday timer output 5
TimeDp.Posts(51).T3	R	246	-	0	Timer Output 5	Start time period 2 Thursday timer output 5

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeDp.Posts(51).T4	R	247	-	0	Timer Output 5	Stop time period 2 Thursday timer output 5
TimeDp.Posts(52).T1	R	248	-	7	Timer Output 5	Start time period 1 Friday timer output 5
TimeDp.Posts(52).T2	R	249	-	16	Timer Output 5	Stop time period 1 Friday timer output 5
TimeDp.Posts(52).T3	R	250	-	0	Timer Output 5	Start time period 2 Friday timer output 5
TimeDp.Posts(52).T4	R	251	-	0	Timer Output 5	Stop time period 2 Friday timer output 5
TimeDp.Posts(53).T1	R	252	-	0	Timer Output 5	Start time period 1 Saturday timer output 5
TimeDp.Posts(53).T2	R	253	-	0	Timer Output 5	Stop time period 1 Saturday timer output 5
TimeDp.Posts(53).T3	R	254	-	0	Timer Output 5	Start time period 2 Saturday timer output 5
TimeDp.Posts(53).T4	R	255	-	0	Timer Output 5	Stop time period 2 Saturday timer output 5
TimeDp.Posts(54).T1	R	256	-	0	Timer Output 5	Start time period 1 Sunday timer output 5
TimeDp.Posts(54).T2	R	257	-	0	Timer Output 5	Stop time period 1 Sunday timer output 5
TimeDp.Posts(54).T3	R	258	-	0	Timer Output 5	Start time period 2 Sunday timer output 5
TimeDp.Posts(54).T4	R	259	-	0	Timer Output 5	Stop time period 2 Sunday timer output 5
TimeDp.Posts(55).T1	R	260	-	0	Timer Output 5	Start time period 1 Holiday timer output 5
TimeDp.Posts(55).T2	R	261	-	0	Timer Output 5	Stop time period 1 Holiday timer output 5
TimeDp.Posts(55).T3	R	262	-	0	Timer Output 5	Start time period 2 Holiday timer output 5
TimeDp.Posts(55).T4	R	263	-	0	Timer Output 5	Stop time period 2 Holiday timer output 5
TimeHp.Posts(0).FromDate	R	264	-	01.01	Holidays	Start date holiday period 1 (MM.DD)
TimeHp.Posts(0).ToDate	R	265	-	01.01	Holidays	End date holiday period 1 (MM.DD)
TimeHp.Posts(1).FromDate	R	266	-	01.01	Holidays	Start date holiday period 2 (MM.DD)

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeHp.Posts(1).ToDate	R	267	-	01.01	Holidays	End date holiday period 2 (MM.DD)
TimeHp.Posts(2).FromDate	R	268	-	01.01	Holidays	Start date holiday period 3 (MM.DD)
TimeHp.Posts(2).ToDate	R	269	-	01.01	Holidays	End date holiday period 3 (MM.DD)
TimeHp.Posts(3).FromDate	R	270	-	01.01	Holidays	Start date holiday period 4 (MM.DD)
TimeHp.Posts(3).ToDate	R	271	-	01.01	Holidays	End date holiday period 4 (MM.DD)
TimeHp.Posts(4).FromDate	R	272	-	01.01	Holidays	Start date holiday period 5 (MM.DD)
TimeHp.Posts(4).ToDate	R	273	-	01.01	Holidays	End date holiday period 5 (MM.DD)
TimeHp.Posts(5).FromDate	R	274	-	01.01	Holidays	Start date holiday period 6 (MM.DD)
TimeHp.Posts(5).ToDate	R	275	-	01.01	Holidays	End date holiday period 6 (MM.DD)
TimeHp.Posts(6).FromDate	R	276	-	01.01	Holidays	Start date holiday period 7 (MM.DD)
TimeHp.Posts(6).ToDate	R	277	-	01.01	Holidays	End date holiday period 7 (MM.DD)
TimeHp.Posts(7).FromDate	R	278	-	01.01	Holidays	Start date holiday period 8 (MM.DD)
TimeHp.Posts(7).ToDate	R	279	-	01.01	Holidays	End date holiday period 8 (MM.DD)
TimeHp.Posts(8).FromDate	R	280	-	01.01	Holidays	Start date holiday period 9 (MM.DD)
TimeHp.Posts(8).ToDate	R	281	-	01.01	Holidays	End date holiday period 9 (MM.DD)
TimeHp.Posts(9).FromDate	R	282	-	01.01	Holidays	Start date holiday period 10 (MM.DD)
TimeHp.Posts(9).ToDate	R	283	-	01.01	Holidays	End date holiday period 10 (MM.DD)
TimeHp.Posts(10).FromDate	R	284	-	01.01	Holidays	Start date holiday period 11 (MM.DD)
TimeHp.Posts(10).ToDate	R	285	-	01.01	Holidays	End date holiday period 11 (MM.DD)
TimeHp.Posts(11).FromDate	R	286	-	01.01	Holidays	Start date holiday period 12 (MM.DD)

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeHp.Posts(11).ToDate	R	287	-	01.01	Holidays	End date holiday period 12 (MM.DD)
TimeHp.Posts(12).FromDate	R	288	-	01.01	Holidays	Start date holiday period 13 (MM.DD)
TimeHp.Posts(12).ToDate	R	289	-	01.01	Holidays	End date holiday period 13 (MM.DD)
TimeHp.Posts(13).FromDate	R	290	-	01.01	Holidays	Start date holiday period 14 (MM.DD)
TimeHp.Posts(13).ToDate	R	291	-	01.01	Holidays	End date holiday period 14 (MM.DD)
TimeHp.Posts(14).FromDate	R	292	-	01.01	Holidays	Start date holiday period 15 (MM.DD)
TimeHp.Posts(14).ToDate	R	293	-	01.01	Holidays	End date holiday period 15 (MM.DD)
TimeHp.Posts(15).FromDate	R	294	-	01.01	Holidays	Start date holiday period 16 (MM.DD)
TimeHp.Posts(15).ToDate	R	295	-	01.01	Holidays	End date holiday period 16 (MM.DD)
TimeHp.Posts(16).FromDate	R	296	-	01.01	Holidays	Start date holiday period 17 (MM.DD)
TimeHp.Posts(16).ToDate	R	297	-	01.01	Holidays	End date holiday period 17 (MM.DD)
TimeHp.Posts(17).FromDate	R	298	-	01.01	Holidays	Start date holiday period 18 (MM.DD)
TimeHp.Posts(17).ToDate	R	299	-	01.01	Holidays	End date holiday period 18 (MM.DD)
TimeHp.Posts(18).FromDate	R	300	-	01.01	Holidays	Start date holiday period 19 (MM.DD)
TimeHp.Posts(18).ToDate	R	301	-	01.01	Holidays	End date holiday period 19 (MM.DD)
TimeHp.Posts(19).FromDate	R	302	-	01.01	Holidays	Start date holiday period 20 (MM.DD)
TimeHp.Posts(19).ToDate	R	303	-	01.01	Holidays	End date holiday period 20 (MM.DD)
TimeHp.Posts(20).FromDate	R	304	-	01.01	Holidays	Start date holiday period 21 (MM.DD)
TimeHp.Posts(20).ToDate	R	305	-	01.01	Holidays	End date holiday period 21 (MM.DD)
TimeHp.Posts(21).FromDate	R	306	-	01.01	Holidays	Start date holiday period 22 (MM.DD)

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimeHp.Posts(21).ToDate	R	307	-	01.01	Holidays	End date holiday period 22 (MM.DD)
TimeHp.Posts(22).FromDate	R	308	-	01.01	Holidays	Start date holiday period 23 (MM.DD)
TimeHp.Posts(22).ToDate	R	309	-	01.01	Holidays	End date holiday period 23 (MM.DD)
TimeHp.Posts(23).FromDate	R	310	-	01.01	Holidays	Start date holiday period 24 (MM.DD)
TimeHp.Posts(23).ToDate	R	311	-	01.01	Holidays	End date holiday period 24 (MM.DD)
VentSettings.Cor_SupplyPID_PGain	R	312	-	33°C	Settings, Control Temp	P-band supply air control
VentSettings.Cor_SupplyPID_ITime	R	313	-	100 s	Settings, Control Temp	I-time supply air control
VentSettings.Cor_ExhaustPID_PGain	R	314	-	100°C	Settings, Control Temp	P-band extract air control
VentSettings.Cor_ExhaustPID_ITime	R	315	-	300 s	Settings, Control Temp	I-time extract air control
VentSettings.Cor_RoomPID_PGain	R	316	-	100°C	Settings, Control Temp	P-band room air control
VentSettings.Cor_RoomPID_ITime	R	317	-	300 s	Settings, Control Temp	I-time room air control
VentSettings.Cor_FrostPID_PGain	R	318	-	100°C	Settings, Control Temp	P-band switchdown mode
VentSettings.Cor_FrostPID_ITime	R	319	-	100 s	Settings, Control Temp	I-time switchdown mode
VentSettings.Cor_DeIcePID_PGain	R	320	-	100°C	Settings, Control Temp	P-band de-icing
VentSettings.Cor_DeIcePID_ITime	R	321	-	100 s	Settings, Control Temp	I-time de-icing
VentSettings.Cor_SAFPID_PGain	R	322	-	500 Pa	Settings, Control Pressure	P-band pressure control SAF
VentSettings.Cor_SAFPID_ITime	R	323	-	60 s	Settings, Control Pressure	I-time pressure control SAF
VentSettings.Cor_EAFPID_PGain	R	324	-	500 Pa	Settings, Control Pressure	P-band pressure control EAF
VentSettings.Cor_EAFPID_ITime	R	325	-	60 s	Settings, Control Pressure	I-time pressure control EAF
VentSettings.Cor_SAFAirFlowPID_PGain	R	326	-	1000 m <sup>3</sup> /h	Settings, Control Flow	P-band flow control SAF

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_SAFPID_ITime	R	327	-	60 s	Settings, Control Flow	I-time flow control SAF
VentSettings.Cor_EAFAirFlowPID_PGain	R	328	-	1000 m <sup>3</sup> /h	Settings, Control Flow	P-band flow control EAF
VentSettings.Cor_EAFPID_ITime	R	329	-	60 s	Settings, Control Flow	I-time flow control EAF
VentSettings.Cor_HumidityPID_PGain	R	330	-	100 % RH	Settings, Control Humidity	P-band humidity control
VentSettings.Cor_HumidityPID_ITime	R	331	-	300 s	Settings, Control Humidity	I-time humidity control
VentSettings.Cor_SupplyMaxDiff	R	332	AV, 30332	10°C	Settings, Alarm Limits	Max control deviation supply air temp
VentSettings.Cor_SupplyHighAlarmLimit	R	333	AV, 30333	30°C	Settings, Alarm Limits	High alarm limit supply air temp
VentSettings.Cor_SupplyLowAlarmLimit	R	334	AV, 30334	10°C	Settings, Alarm Limits	Low alarm limit supply air temp
VentSettings.Cor_ExhaustAirTempHigh	R	335	AV, 30335	30°C	Settings, Alarm Limits	High alarm limit extract air temp
VentSettings.Cor_ExhaustAirTempLow	R	336	AV, 30336	10°C	Settings, Alarm Limits	Low alarm limit extract air temp
VentSettings.Cor_RoomHighLimit	R	337	AV, 30337	30°C	Settings, Alarm Limits	High alarm limit room air temp
VentSettings.Cor_RoomLowLimit	R	338	AV, 30338	10°C	Settings, Alarm Limits	Low alarm limit room air temp
VentSettings.Cor_FrostLimit	R	339	AV, 30339	7°C	Settings, Alarm Limits	Alarm limit frost protection
VentSettings.Cor_SAFMaxDiffPressure	R	340	AV, 30340	50 Pa	Settings, Alarm Limits	Max control deviation pressure SAF
VentSettings.Cor_EAFMaxDiffPressure	R	341	AV, 30341	50 Pa	Settings, Alarm Limits	Max control deviation pressure EAF
VentSettings.Cor_EfficiencyLowLimit	R	342	AV, 30342	50 %	Settings, Alarm Limits	Low efficiency
AlaData.AlaPt13_DelayValue	I	343	-	30 min	Settings, Alarm Delays	Alarm delay control deviation supply air temp
AlaData.AlaPt15_DelayValue	I	344	-	5 s	Settings, Alarm Delays	Alarm delay high supply air temp
AlaData.AlaPt16_DelayValue	I	345	-	5 s	Settings, Alarm Delays	Alarm delay low supply air temp
AlaData.AlaPt21_DelayValue	I	346	-	30 min	Settings, Alarm Delays	Alarm delay high extract air temp



## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
AlaData.AlaPt22_DelayValue	I	347	-	30 min	Settings, Alarm Delays	Alarm delay low extract air temp
AlaData.AlaPt19_DelayValue	I	348	-	30 min	Settings, Alarm Delays	Alarm delay high room air temp
AlaData.AlaPt20_DelayValue	I	349	-	30 min	Settings, Alarm Delays	Alarm delay low alarm room air temp
AlaData.AlaPt25_DelayValue	I	350	-	0 s	Settings, Alarm Delays	Alarm delay frost protection
AlaData.AlaPt31_DelayValue	I	351	-	30 min	Settings, Alarm Delays	Alarm delay max control deviation pressure SAF
AlaData.AlaPt32_DelayValue	I	352	-	30 min	Settings, Alarm Delays	Alarm delay max control deviation pressure EAF
AlaData.AlaPt26_DelayValue	I	353	-	30 min	Settings, Alarm Delays	Alarm delay low efficiency
AlaData.AlaPt1_DelayValue	I	354	-	120 s	Settings, Alarm Delays	Alarm delay malfunction SAF
AlaData.AlaPt2_DelayValue	I	355	-	120 s	Settings, Alarm Delays	Alarm delay malfunction EAF
AlaData.AlaPt3_DelayValue	I	356	-	5 s	Settings, Alarm Delays	Alarm delay malfunction P1-Heating
AlaData.AlaPt4_DelayValue	I	357	-	5 s	Settings, Alarm Delays	Alarm delay malfunction P1-Cooling
AlaData.AlaPt5_DelayValue	I	358	-	20 s	Settings, Alarm Delays	Alarm delay malfunction P1-Exchanger
AlaData.AlaPt6_DelayValue	I	359	-	180 s	Settings, Alarm Delays	Alarm delay filter monitoring
AlaData.AlaPt7_DelayValue	I	360	-	5 s	Settings, Alarm Delays	Alarm delay flow switch
AlaData.AlaPt8_DelayValue	I	361	-	0 s	Settings, Alarm Delays	Alarm delay frost protection
AlaData.AlaPt9_DelayValue	I	362	-	0 s	Settings, Alarm Delays	Alarm delay frost protection digital input
AlaData.AlaPt10_DelayValue	I	363	-	0 s	Settings, Alarm Delays	Alarm delay fire alarm
AlaData.AlaPt12_DelayValue	I	364	-	0 s	Settings, Alarm Delays	Alarm delay external alarm
AlaData.AlaPt23_DelayValue	I	365	-	0 s	Settings, Alarm Delays	Alarm delay electric heater
AlaData.AlaPt27_DelayValue	I	366	-	5 s	Settings, Alarm Delays	Alarm delay sensor error

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
AlaData.AlaPt29_DelayValue	I	367	-	20 s	Settings, Alarm Delays	Alarm delay rotation guard exchanger
VentSettings.Cor_AirUnitAutoMode	X	368	MSV, 30368	3	Manual/Auto	Running mode air unit: 0=Manual off 1=Manual reduced speed 2=Manual normal speed 3=Auto
VentSettings.Cor_SupplyPID_Select	X	369	-	2	Manual/Auto	Supply temp controller mode: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_SupplyPID_ManSet	R	370	-	0 %	Manual/Auto	Supply temp controller output if manual on mode
VentSettings.Cor_SAFAutoMode(0)	X	371	-	3	Manual/Auto	Running mode SAF: 0=Off 1=Manual half speed 2=Manual full speed 3=Auto
VentSettings.Cor_EAFAutoMode	X	372	-	3	Manual/Auto	Running mode EAF: 0=Off 1=Manual half speed 2=Manual full speed 3=Auto
VentSettings.Cor_SAFFrequencyAutoMode	X	373	-	3	Manual/Auto	Running mode frequency controlled SAF 0=Manual 1=Man. half speed 2=Man. Fullspeed 3=Auto
VentSettings.Cor_SAFManual	R	374	-	0 %	Manual/Auto	Freguencer controller output SAF if manual mode
VentSettings.Cor_EAFFrequencyAutoMode	X	375	-	3	Manual/Auto	Running mode frequency controlled EAF 0=Manual 1=Man. half speed 2=Man. Fullspeed 3=Auto
VentSettings.Cor_EAFManual	R	376	-	0 %	Manual/Auto	Freguencer controller output EAF if manual mode
VentSettings.Cor_HeatCoilAutoMode(0)	X	377	-	2	Manual/Auto	Running mode Heating: 0=Off 1=Manual 2=Auto
VentSettings.Cor_HeatCoilManual(0)	R	378	-	0	Manual/Auto	Heating controller output if

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						manual mode
VentSettings.Cor_ExchCoilAutoMode	X	379	-	2	Manual/Auto	Running mode Exchanger: 0=Off 1=Manual 2=Auto
VentSettings.Cor_ExchCoilManual	R	380	-	0	Manual/Auto	Exchanger controller output if manual mode
VentSettings.Cor_CoolCoilAutoMode	X	381	-	2	Manual/Auto	Running mode Cooling: 0=Off 1=Manual 2=Auto
VentSettings.Cor_CoolCoilManual	R	382	-	0	Manual/Auto	Cooling controller output if manual mode
VentSettings.Cor_HumidityPID_Select	X	383	-	2	Manual/Auto	Running mode Humidification/Dehumidification: 0=Off 1=Manual 2=Auto
VentSettings.Cor_HumidityPID_ManSet	R	384	-	0	Manual/Auto	Humidification/Dehumidification controller output if manual mode
VentSettings.Cor_HeatPumpAutoMode(0)	X	385	-	2	Manual/Auto	Running mode P1-Heating: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_ExchPumpAutoMode	X	386	-	2	Manual/Auto	Running mode P1-Exchanger: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_CoolPumpAutoMode	X	387	-	2	Manual/Auto	Running mode P1-Cooling: 0=Manual off 1=Manual on 2=Auto
VentSettings.Cor_FireDamperAutoMode	X	388	-	2	Manual/Auto	Running mode fire damper: 0=Close 1=Open 2=Auto
VentSettings.Cor_FreshAirDamperAutoMode	X	389	-	2	Manual/Auto	Running mode fresh air damper: 0=Close 1=Open 2=Auto
VentSettings.Cor_RecycleAirDamperAutoMode	X	390	-	2	Manual/Auto	Running mode recirculation damper:

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						0=Close 1=Open 2=Auto
VentSettings.Cor_ExtractAirDamperAutoMode	X	391	-	2	Manual/Auto	Running mode extract air damper: 0=Close 1=Open 2=Auto
VentActual.Cor_OutDoorTemp(0)	R	392	AV, 30392		Actual/Setpoint	Outdoor temperature (Can be modified if it's not connected to a physic analogue input).
TimePro. TimeGroupStatusFanFullSpeed	X	393	MSV, 30393	4	Manual/Auto	Manual/Auto Full Speed time channel 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusFanHalfSpeed	X	394	MSV, 30394	4	Manual/Auto	Manual/Auto Half Speed time channel 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup1	X	395	-	4	Manual/Auto	Manual/Auto Timer output 1
TimePro. TimeGroupStatusCor_ExtraTimeGroup2	X	396	-	4	Manual/Auto	Manual/Auto Timer output 2 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup3	X	397	-	4	Manual/Auto	Manual/Auto Timer output 3
TimePro. TimeGroupStatusCor_ExtraTimeGroup4	X	398	-	4	Manual/Auto	Manual/Auto Timer output 4 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup5	X	399	MSV, 30399	4	Manual/Auto	Manual/Auto Timer output 5
Alarms.AlaAcknow	X	400	-	255	Alarm Acknowledging, Blocking and	External alarm acknowledge by setting this signal to the alarm number that should be

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
					Unblocking	acknowledge.
Alarms.AlaBlock	X	401	-	255	Alarm Acknowledging, Blocking and Unblocking	External alarm blocking by setting this signal to the alarm number that should be blocked.
Alarms.AlaUnBlock	X	402	-	255	Alarm Acknowledging, Blocking and Unblocking	External alarm unblocking by setting this signal to the alarm number that should be unblocked.
VentSettings.Cor_HeatPumpLimit	R	403	-	10°C	Actual/Setpoint	If lower outdoor temp the heating pump is not stoped
VentSettings.Cor_SupplySetpointMax	R	404	AV, 30404	30°C	Supply,Extract and Room temperatures	Max limit of supply setpoint when cascade control
VentSettings.Cor_SupplySetpointMin	R	405	AV, 30405	12°C	Supply,Extract and Room temperatures	Min limit of supply setpoint when cascade control
QSystem.Sec	X	406	-		Real Time Clock	Real time clock: Second 0-59
QSystem.Minute	X	407	-		Real Time Clock	Real time clock: Minute 0-59
QSystem.Hour	X	408	-		Real Time Clock	Real time clock: Hour 0-23
QSystem.WDay	X	409	-		Real Time Clock	Real time clock: Day of Week 1-7, 1=Monday
QSystem.Week	X	410	-		Real Time Clock	Real time clock: Week number 1-53
QSystem.Date	X	411	-		Real Time Clock	Real time clock: Day of month 1-31
QSystem.Month	X	412	-		Real Time Clock	Real time clock: Month 1-12
QSystem.Year	X	413	-		Real Time Clock	Real time clock: Year 0-99
VentSettings.Cor_Comp1Pressure	R	414	-	0	SAF/EAF Pressure and Flow	Pressure compensation at breakpoint 1
VentSettings. Cor_Comp1Temp	R	415	-	-20	SAF/EAF Pressure and Flow	Outdoor temp breakpoint 1 (must be lower than breakpoint 2 temp)
VentSettings.Cor_Comp2Pressure	R	416	-	0	SAF/EAF Pressure and Flow	Pressure compensation at breakpoint 2

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_Comp2Temp	R	417	-	10	SAF/EAF Pressure and Flow	Outdoor temp breakpoint 2 (must be higher than breakpoint 1 temp)
VentSettings.Cor_HumidityMaxDiff	R	418	-	10 % RH	Humidity	Max allowed difference between setpoint and humidity in room before alarm
VentSettings.Cor_HumidityStartLimit	R	419	-	15 % RH	Humidity	Start limit in % to start digital output signal "Cor_HumidityStart(0)"
VentSettings.Cor_HumidityStopLimit	R	420	-	5 % RH	Humidity	Stop limit in % to stop digital output signal "Cor_HumidityStart(0)"
VentSettings.Cor_HumidityAutoMode	X	421	-	2	Manual/Auto	Running mode humidity start signal 0=Off 1=On 2=Auto
VentSettings.Cor_ExchStartDelay	I	422	-	0 s	Settings, General	Start delay Exchanger (s)
VentSettings.Cor_DXBlockLimit	R	423	AV, 30423	0°C	Settings, General	If lower outdoor temperature all steps for DX-cooling is blocked
VentSettings.Cor_SAFFullspeedOutput	R	424	-	75 %	SAF/EAF Pressure and Flow	Output signal (0-100%) full speed SAF if Frequency control manually
VentSettings.Cor_SAFHalfspeedOutput	R	425	-	50 %	SAF/EAF Pressure and Flow	Output signal (0-100%) half speed SAF if Frequency control manually
VentSettings.Cor_EAFFullspeedOutput	R	426	-	75 %	SAF/EAF Pressure and Flow	Output signal (0-100%) full speed EAF if Frequency control manually
VentSettings.Cor_EAFHalfspeedOutput	R	427	-	50 %	SAF/EAF Pressure and Flow	Output signal (0-100%) half speed EAF if Frequency control manually
VentSettings.Cor_CoolStepBlock1	R	428	-	0 %	Settings, General	If frequens output signal SAF is lower cool step 1 is blocked
VentSettings.Cor_CoolStepBlock2	R	429	-	0 %	Settings, General	If frequens output signal SAF is lower cool step 2 is blocked
VentSettings.Cor_CoolStepBlock3	R	430	-	0 %	Settings, General	If frequens output signal SAF is lower cool step 3 is blocked

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_CoolStepBlockLimit1(0)	R	431	-	13°C	Settings, General	If lower outdoor temperature Cool step 1 is blocked
VentSettings.Cor_CoolStepBlockLimit2	R	432	-	13°C	Settings, General	If lower outdoor temperature Cool step 2 is blocked
VentSettings.Cor_CoolStepBlockLimit3	R	433	-	13°C	Settings, General	If lower outdoor temperature Cool step 3 is blocked
VentSettings.Cor_ExtraUnitFunc	X	434	-	0	Extra Unit	Start/Stop function Extra Unit: 0=Off 1=Always running 2=Running if unit is running
VentSettings.Cor_ExtraUnitSetP	R	435	-	18°C	Extra Unit	Setpoint Extra Unit
VentSettings.Cor_ExtraUnitPID1Mode	X	436	-	0	Extra Unit	Control mode Extra Unit 0=Heating Controller 1=Cooling Controller
VentSettings.Cor_ExtraUnitPID1_Select(0)	X	437	-	2	Manual/Auto	Manual/Auto Extra Unit Controller 0=Off 1=Manual 2=Auto
VentSettings.Cor_ExtraUnitPID1_ManSet(0)	R	438	-	0	Manual/Auto	Extra Unit Controller output if manual mode
VentSettings.Cor_RecycleSetP	R	439	AV, 30439	18°C	Recirculation	Recirculation setpoint
VentSettings.Cor_RecycleMaxRoomTemp	R	440	AV, 30440	25°C	Recirculation	If higher room temp when Recirculation run recirculation damper is closed and fresh air damper is open
VentSettings.Cor_RecycleSAFOffset	R	441	AV, 30441	0	Recirculation	Setpoint offset if pressure/flow controlled SAF (Pa)
VentSettings.Cor_RecycleEAFOffset	R	442	-	0	Recirculation	Setpoint offset if pressure/flow controlled EAF (this is not used)
VentSettings.Cor_SAFAirFlowK	R	443	-	100	SAF/EAF Pressure and Flow	K-constant for counting air flow SAF $\text{airflow} = \text{Cor\_AirFlowK} * \text{Cor\_SAFPressure}^{\text{Cor\_AirFlowK}}$
VentSettings.Cor_SAFAirFlowx	R	444	-	0.5	SAF/EAF Pressure and Flow	X-constant for counting air flow SAF
VentSettings.Cor_EAFAirFlowK	R	445	-	100	SAF/EAF	K-constant for counting air

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
					Pressure and Flow	flow EAF airflow = Cor_AirFlowK * Cor_SAFPressure^Cor_AirF lowx
VentSettings.Cor_EAFAirFlowx	R	446	-	0.5	SAF/EAF Pressure and Flow	X-constant for counting air flow EAF
VentSettings.Cor_EAFFrequencyFact	R	447	-	1	SAF/EAF Pressure and Flow	Factor for controlling EAF if CAV fan control is configured (EAF is controlled by SAF with this factor)
VentSettings.Cor_ExtraSeqCoilAutoMode	X	448	-	2	Manual/Auto	Manual/Auto Extra Sequence Y4 0=Off 1=Manual 2=Auto
VentSettings.Cor_ExtraSeqCoilManual	R	449	-	0	Manual/Auto	Extra Sequence Y4 output if manual mode
VentSettings.Cor_FilterAlarmTime	I	450	-	0	Settings, Alarm Delays	Time in month between filter exchange (Service Alarm)
VentSettings.Cor_ExternalControl	X	451	MSV, 30451	2	Manual/Auto	External control: 0=Extended run full speed 1=External stop 2=No external control 3=External stop with support control
VentSettings.Cor_PreHeatStart	R	452	-	8	Settings, PreTreatment	If outdoor temp. is lower, preheat is activated
VentSettings.Cor_PreCoolStart	R	453	-	19	Settings, PreTreatment	If outdoor temp. is higher, precool is activated
VentSettings.Cor_PreTreatHyst	R	454	-	1	Settings, PreTreatment	Hysteresis to start/stop pretreatment
VentSettings.Cor_PreTreatMinDiff	R	455	-	1	Settings, PreTreatment	Min. diff. intake air temp. and outdoor air temp.
VentSettings.Cor_PreTreatmentAutoMode	X	456	-	2	Settings, PreTreatment	Run mode pretreatment: 0=Closed 1=Open 2=Auto
VentSettings.Cor_PreTreatFreeCool	X	457	-	0	Settings, PreTreatment	Select if pretreatment should be activated during free cooling
VentSettings.Cor_PreTreatBlockTime	X	458	-	6	Settings, PreTreatment	Hour that pretreatment is blocked if diff. intake/outdoor is too low



## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_PreTreatMinRunTime	X	459	-	5	Settings, PreTreatment	Min. runtime (minutes) for pretreatment
VentSettings.Cor_RestartPowerOn	X	460	-	1	Settings, General	Automatic restart after power-up (=1)
VentSettings.Cor_DXFullSpeed	X	461	-	0	Settings, General	Switch to full speed if DX-Cooling
VentSettings.Cor_RecycleSetPOffset	R	462	-	0	Recirculation	Offset for recirculation setpoint
VentSettings.Cor_RecycleSetPControl	X	463	-	0	Recirculation	Select if constant setpoint or setpoint adjustment when recirculation run: 0=Constant setpoint 1=Supply air setpoint with adjustment
VentSettings.Cor_RecycleTempControl	X	464	-	0	Recirculation	Enable supply air temp control when recirculation run: 0=No temp control 1=heating/cooling 2=only heating 3=only cooling
VentSettings.Cor_DemandCO2Value1	R	465	AV, 30465	800	CO <sub>2</sub>	Activation of demand-controlled ventilation, 1/2-speed
VentSettings.Cor_DemandCO2Value2	R	466	AV, 30466	1000	CO <sub>2</sub>	Activation of demand-controlled ventilation, 1/1-speed
VentSettings.Cor_DemandCO2Diff	R	467	AV, 30467	160	CO <sub>2</sub>	Hysteresis for stop of demand controlled ventilation (ppm)
VentSettings.Cor_CascadeTemp	R	468	-	13	Supply, Extract and Room temperatures	Outdoor temp for switching between outdoor compensated or cascade control if Cor_VentControl = 4 or 5 (if higher outdoor temp then cascade control)
VentSettings.Cor_ExtraSeqY5AutoMode	X	469	-	2	Manual/Auto	Run mode Extra seq coil Y5 (0=Off, 1=Manual, 2=Auto)
VentSettings.Cor_ExtraSeqY5Manual	R	470	-	0	Manual/Auto	Manual setting Extra seq coil Y5 if manual mode
VentSettings.Cor_ExtraSeqY5Min	R	471	-	0	Actual/Setpoint	Min. limit for Y5 in Auto mode
VentSettings.Cor_ReducedSetPOffset	R	472	-	0	Actual/Setpoint	Temperature setpoint offset in reduced speed

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_ChangeOverSelect	X	473	MSV, 30473	2	Settings, General	Select change-over external: Modbus: 0=Heating 1=Cooling 2=Auto BACnet: 1=Heating 2=Cooling 3=Auto
VentSettings.Cor_VentControl	X	474	-	0	Settings, General	Select temperature control mode: 0=Const. supply air 1=Outdoor compensated supply air 2=Cascade room temp control 3=Extract temp control 4=Outdoor dependent supply or room temp 5=Outdoor dependent supply or extract temp 6=Cascade outdoor compensated room temp control 7=Cascade outdoor compensated extract temp control
VentSettings.Cor_FanType	X	475	-	0	Settings, General	Select fan control mode: 0=1-Speed. 1=2-Speed. 2=Frequency control pressure 3=Frequency control air flow 4=Frequency control manually 5=Direct frequency control 6=Frequency control with slave controlled EAF 7=Frequency control with slave controlled EAF air flow depending 8=Frequency control with slave controlled SAF 9=Frequency control with slave controlled SAF air flow depending
VentSettings.Cor_HeatType	X	476	-	0	Settings, General	Type of heating: 0=Water 1=Electric 2=Not connected

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
						3=Both water and electric
VentSettings.Cor_CoolType	X	477	-	0	Settings, General	Type of cooling: 0=Water 1=DX 2=Not connected 3=DX with exchange control
VentSettings.Cor_ExchType	X	478	-	2	Settings, General	Type of heat exchanger: 0=Damper 1=Rot.exchanger 2=Plate exchanger 3=Liquid exchanger 4=Not connected
VentSettings.Cor_NightCoolDayLimit	R	479	AV, 30479	22	Settings, Free cooling	If outdoor temp. has been higher during daytime, free cooling is activated at night
VentSettings.Cor_NightCoolHighLimit	R	480	AV, 30480	18	Settings, Free cooling	If outdoor temp. is higher at night, free cooling is stopped
VentSettings.Cor_NightCoolLowLimit	R	481	AV, 30481	10	Settings, Free cooling	If outdoor temp is lower at night, free cooling is stopped
VentSettings.Cor_NightCoolRoomLimit	R	482	AV, 30482	18	Settings, Free cooling	If room temp is lower at night, free cooling is stopped
VentSettings.Cor_NightCoolStartTime	X	483	-	0	Settings, Free cooling	Start time free cool function
VentSettings.Cor_NightCoolStopTime	X	484	-	7	Settings, Free cooling	Stop time free cool function
VentSettings.Cor_NightCoolHeatBlockTime	I	485	-	60	Settings, Free cooling	Time in minutes to block heat output when starting after running free cooling
VentSettings.Cor_NightCoolSAFOutput	R	486	-	0	Settings, Free cooling	SAF output when free cooling and frequency fan: 0=The output is normal speed
VentSettings.Cor_NightCoolEAFOutput	R	487	-	0	Settings, free cooling	EAF output when free cooling and frequency fan: 0=The output is normal speed
AlaData.AlaPt90_DelayValue	I	488	-	180	Settings, Alarm Delays	Filter guard 2
VentSettings.Cor_ExtraSensor1HighLimit(0)	R	489	-	30	Settings, Alarm limits	Alarm limit high temp Extra sensor 1
VentSettings.Cor_ExtraSensor2HighLimit	R	490	-	30	Settings, Alarm limits	Alarm limit high temp Extra sensor 2
VentSettings.Cor_ExtraSensor3HighLimit	R	491	-	30	Settings, Alarm limits	Alarm limit high temp Extra sensor 3

## Holding Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentSettings.Cor_ExtraSensor4HighLimit	R	492	-	30	Settings, Alarm limits	Alarm limit high temp Extra sensor 4
VentSettings.Cor_ExtraSensor5HighLimit	R	493	-	30	Settings, Alarm limits	Alarm limit high temp Extra sensor 5
VentSettings.Cor_ExtraSensor1LowLimit(0)	R	494	-	10	Settings, Alarm limits	Alarm limit low temp Extra sensor 1
VentSettings.Cor_ExtraSensor2LowLimit	R	495	-	10	Settings, Alarm limits	Alarm limit low temp Extra sensor 2
VentSettings.Cor_ExtraSensor3LowLimit	R	496	-	10	Settings, Alarm limits	Alarm limit low temp Extra sensor 3
VentSettings.Cor_ExtraSensor4LowLimit	R	497	-	10	Settings, Alarm limits	Alarm limit low temp Extra sensor 4
VentSettings.Cor_ExtraSensor5LowLimit	R	498	-	10	Settings, Alarm limits	Alarm limit low temp Extra sensor 5
VentSettings.Cor_FilterGuard1Limit	R	499	-	100	Settings, Alarm limits	Alarm limit filter guard 1 (Pa)
VentSettings.Cor_FilterGuard2Limit	R	500	-	100	Settings, Alarm limits	Alarm limit filter guard 2 (Pa)

## 8 Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
TimePro.TimeGroupFanFullSpeed	L	1	BV, 20001		Actual/Setpoint	Is set if timechannel full speed is active
TimePro.TimeGroupFanHalfSpeed	L	2	BV, 20002		Actual/Setpoint	Is set if timechannel reduced speed is active
TimePro.TimeGroupCor_ExtraTimeGroup1	L	3	-		Actual/Setpoint	Is set if timer output 1 is active
TimePro.TimeGroupCor_ExtraTimeGroup2	L	4	-		Actual/Setpoint	Is set if timer output 2 is active
TimePro.TimeGroupCor_ExtraTimeGroup3	L	5	-		Actual/Setpoint	Is set if timer output 3 is active
TimePro.TimeGroupCor_ExtraTimeGroup4	L	6	-		Actual/Setpoint	Is set if timer output 4 is active
TimePro.TimeGroupCor_ExtraTimeGroup5	L	7	-		Actual/Setpoint	Is set if timer output 5 is active
VentActual.Cor_ExtendedRunActiveFull	L	8	BV, 20008		Actual/Setpoint	Is set if extended operation full speed
VentActual.Cor_ExtendedRunActiveHalf	L	9	BV, 20009		Actual/Setpoint	Is set if extended operation half speed
VentActual.Cor_NeedHeatActive	L	10	BV, 20010		Supply,Extract and Room temperatures	Is set if ongoing support heating
VentActual. Cor_NeedCoolActive	L	11	BV, 20011		Supply,Extract and Room temperatures	Is set if ongoing support cooling
VentActual.Cor_DemandCO2Active	L	12	BV, 20012		CO <sub>2</sub>	Is set if ongoing support CO <sub>2</sub>
VentActual.Cor_DeIcingActive	L	13	BV, 20013		Extract air temp/De-icing exchanger	Is set if ongoing de-icing
QDig.DI1	L	14	BV, 20014		Digital inputs	Value of DI1
QDig.DI2	L	15	BV, 20015		Digital inputs	Value of DI2
QDig.DI3	L	16	BV, 20016		Digital inputs	Value of DI3
QDig.DI4	L	17	BV, 20017		Digital inputs	Value of DI4
QDig.DI5	L	18	BV,		Digital inputs	Value of DI5

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
			20018			
QDig.DI6	L	19	BV, 20019		Digital inputs	Value of DI6
QDig.DI7	L	20	BV, 20020		Digital inputs	Value of DI7
QDig.DI8	L	21	BV, 20021		Digital inputs	Value of DI8
QDig.DI9	L	22	BV, 20022		Universal inputs	Value of UDI1
QDig.DI10	L	23	BV, 20023		Universal inputs	Value of UDI2
QDig.DI11	L	24	BV, 20024		Universal inputs	Value of UDI3
QDig.DI12	L	25	BV, 20025		Universal inputs	Value of UDI4
QDig.Dq1	L	26	BV, 20026		Digital outputs	Value of DO1
QDig.Dq2	L	27	BV, 20027		Digital outputs	Value of DO2
QDig.Dq3	L	28	BV, 20028		Digital outputs	Value of DO3
QDig.Dq4	L	29	BV, 20029		Digital outputs	Value of DO4
QDig.Dq5	L	30	BV, 20030		Digital outputs	Value of DO5
QDig.Dq6	L	31	BV, 20031		Digital outputs	Value of DO6
QDig.Dq7	L	32	BV, 20032		Digital outputs	Value of DO7
VentActual.Cor_AlaPt(1)	L	33	BV, 20033		Alarm Points	Run Error Supply Air Fan 0=No alarm 1=Alarm
VentActual.Cor_AlaPt(2)	L	34	BV, 20034		Alarm Points	Run Error Extract Air Fan
VentActual.Cor_AlaPt(3)	L	35	BV, 20035		Alarm Points	Run Error P1-Heater
VentActual.Cor_AlaPt(4)	L	36	BV, 20036		Alarm Points	Run Error P1-Cooler
VentActual.Cor_AlaPt(5)	L	37	BV,		Alarm Points	Run Error P1-Exchanger

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
			20037			
VentActual.Cor_AlaPt(6)	L	38	BV, 20038		Alarm Points	Filter guard
VentActual.Cor_AlaPt(7)	L	39	BV, 20039		Alarm Points	Flow guard
VentActual.Cor_AlaPt(8)	L	40	BV, 20040		Alarm Points	External frost guard
VentActual.Cor_AlaPt(9)	L	41	BV, 20041		Alarm Points	Deicing pressure guard
VentActual.Cor_AlaPt(10)	L	42	BV, 20042		Alarm Points	Fire alarm
VentActual.Cor_AlaPt(11)	L	43	BV, 20043		Alarm Points	External switch
VentActual.Cor_AlaPt(12)	L	44	BV, 20044		Alarm Points	External alarm
VentActual.Cor_AlaPt(13)	L	45	BV, 20045		Alarm Points	Supply Air control error
VentActual.Cor_AlaPt(14)	L	46	BV, 20046		Alarm Points	Deviation Humidity control
VentActual.Cor_AlaPt(15)	L	47	BV, 20047		Alarm Points	High supply air temp
VentActual.Cor_AlaPt(16)	L	48	BV, 20048		Alarm Points	Low supply air temp
VentActual.Cor_AlaPt(17)	L	49	BV, 20049		Alarm Points	Supply Air Fan max limit
VentActual.Cor_AlaPt(18)	L	50	BV, 20050		Alarm Points	Supply Air Fan min limit
VentActual.Cor_AlaPt(19)	L	51	BV, 20051		Alarm Points	High room temp
VentActual.Cor_AlaPt(20)	L	52	BV, 20052		Alarm Points	Low room temp
VentActual.Cor_AlaPt(21)	L	53	BV, 20053		Alarm Points	High extract air temp
VentActual.Cor_AlaPt(22)	L	54	BV, 20054		Alarm Points	Low extract air temp
VentActual.Cor_AlaPt(23)	L	55	BV, 20055		Alarm Points	Electric heating is overheated
VentActual.Cor_AlaPt(24)	L	56	BV, 20056		Alarm Points	Frost risk
VentActual.Cor_AlaPt(25)	L	57	BV,		Alarm Points	Low frost guard temp

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
			20057			
VentActual.Cor_AlaPt(26)	L	58	BV, 20058		Alarm Points	Low efficiency
VentActual.Cor_AlaPt(27)	L	59	BV, 20059		Alarm Points	Sensor error outdoor temp
VentActual.Cor_AlaPt(28)	L	60	BV, 20060		Alarm Points	Analogue deicing
VentActual.Cor_AlaPt(29)	L	61	BV, 20061		Alarm Points	Rotation guard exchanger
VentActual.Cor_AlaPt(30)	L	62	BV, 20062		Alarm Points	Fire damper is out of operation
VentActual.Cor_AlaPt(31)	L	63	BV, 20063		Alarm Points	Supply Air Fan control error
VentActual.Cor_AlaPt(32)	L	64	BV, 20064		Alarm Points	Extract Air Fan control error
VentActual.Cor_AlaPt(33)	L	65	BV, 20065		Alarm Points	Supply Air Fan external operation
VentActual.Cor_AlaPt(34)	L	66	BV, 20066		Alarm Points	Extract Air Fan external operation
VentActual.Cor_AlaPt(35)	L	67	BV, 20067		Alarm Points	Ventilation Manual mode
VentActual.Cor_AlaPt(36)	L	68	BV, 20068		Alarm Points	Manual supply air control
VentActual.Cor_AlaPt(37)	L	69	BV, 20069		Alarm Points	Manual Supply Air Fan mode
VentActual.Cor_AlaPt(38)	L	70	BV, 20070		Alarm Points	Manual Supply Air Fan freq control
VentActual.Cor_AlaPt(39)	L	71	BV, 20071		Alarm Points	Manual Extract Air Fan mode
VentActual.Cor_AlaPt(40)	L	72	BV, 20072		Alarm Points	Manual Extract Air Fan freq control
VentActual.Cor_AlaPt(41)	L	73	BV, 20073		Alarm Points	Manual heater control
VentActual.Cor_AlaPt(42)	L	74	BV, 20074		Alarm Points	Manual cooler control
VentActual.Cor_AlaPt(43)	L	75	BV, 20075		Alarm Points	Manual exchanger control
VentActual.Cor_AlaPt(44)	L	76	BV, 20076		Alarm Points	Manual P1-Heater
VentActual.Cor_AlaPt(45)	L	77	BV,		Alarm Points	Manual P1-Cooler



## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
			20077			
VentActual.Cor_AlaPt(46)	L	78	BV, 20078		Alarm Points	Manual P1-Exchanger
VentActual.Cor_AlaPt(47)	L	79	BV, 20079		Alarm Points	Manual fire damper
VentActual.Cor_AlaPt(48)	L	80	BV, 20080		Alarm Points	Internal battery error
VentActual.Cor_SAFStart1(0)	L	81	BV, 20081		SAF/EAF Pressure and Flow	Start signal full speed supply air fan
VentActual.Cor_EAFStart1	L	82	BV, 20082		SAF/EAF Pressure and Flow	Start signal full speed extract air fan
VentActual.Cor_SAFStart2	L	83	BV, 20083		SAF/EAF Pressure and Flow	Start signal half speed supply air fan
VentActual.Cor_EAFStart2	L	84	BV, 20084		SAF/EAF Pressure and Flow	Start signal half speed extract air fan
VentActual.Cor_HeatPumpStart(0)	L	85	BV, 20085		Actual/Setpoint	Start signal Heat Pump
VentActual.Cor_ExchPumpStart	L	86	BV, 20086		Actual/Setpoint	Start signal Exchanger
VentActual.Cor_CoolPumpStart	L	87	BV, 20087		Actual/Setpoint	Start signal Cool Pump
VentActual.Cor_SAFFrequencyStart	L	88	BV, 20088		SAF/EAF Pressure and Flow	Start signal frequencer supply air fan
VentActual.Cor_EAFFrequencyStart	L	89	BV, 20089		SAF/EAF Pressure and Flow	Start signal frequencer extract air fan
VentActual.Cor_AlaPt(49)	L	90	BV, 20090		Alarm Points	Sensor error Supply Air temp
VentActual.Cor_AlaPt(50)	L	91	BV, 20091		Alarm Points	Sensor error Extract Air temp
VentActual.Cor_AlaPt(51)	L	92	BV, 20092		Alarm Points	Sensor error Room temp 1
VentActual.Cor_AlaPt(52)	L	93	BV, 20093		Alarm Points	Sensor error Room temp 2
VentActual.Cor_AlaPt(53)	L	94	BV, 20094		Alarm Points	Sensor error Extract Air temp

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_AlaPt(54)	L	95	BV, 20095		Alarm Points	Sensor error Extra sensor
VentActual.Cor_AlaPt(55)	L	96	BV, 20096		Alarm Points	Sensor error SAF pressure
VentActual.Cor_AlaPt(56)	L	97	BV, 20097		Alarm Points	Sensor error EAF pressure
VentActual.Cor_AlaPt(57)	L	98	BV, 20098		Alarm Points	Sensor error Deicing temp
VentActual.Cor_AlaPt(58)	L	99	BV, 20099		Alarm Points	Sensor error Frost Protection temp
VentActual.Cor_AlaPt(59)	L	100	BV, 20100		Alarm Points	Sensor error CO <sub>2</sub>
VentActual.Cor_AlaPt(60)	L	101	BV, 20101		Alarm Points	Sensor error Humidity room
VentActual.Cor_AlaPt(61)	L	102	BV, 20102		Alarm Points	Sensor error Humidity duct
VentActual.Cor_AlaPt(62)	L	103	BV, 20103		Alarm Points	Sensor error Extra unit temp
VentActual.Cor_AlaPt(63)	L	104	BV, 20104		Alarm Points	Sensor error External control SAF
VentActual.Cor_AlaPt(64)	L	105	BV, 20105		Alarm Points	Sensor error External control EAF
VentActual.Cor_AlaPt(65)	L	106	BV, 20106		Alarm Points	Sensor error SAF Pressure 2
VentActual.Cor_AlaPt(66)	L	107	BV, 20107		Alarm Points	Sensor error Humidity Outdoor
VentActual.Cor_AlaPt(67)	L	108	-		Alarm Points	Sensor error Reserved 1
VentActual.Cor_AlaPt(68)	L	109	-		Alarm Points	Sensor error Reserved 2
VentActual.Cor_AlaPt(69)	L	110	-		Alarm Points	Sensor error Reserved 3
VentActual.Cor_AlaPt(70)	L	111	-		Alarm Points	Sensor error Reserved 4
VentActual.Cor_AlaPt(71)	L	112	-		Alarm Points	Sensor error Reserved 5
VentActual.Cor_AlaPt(72)	L	113	-		Alarm Points	Sensor error Reserved 6
VentActual.Cor_AlaPt(73)	L	114	-		Alarm Points	Sensor error Reserved 7
VentActual.Cor_AlaPt(74)	L	115	-		Alarm Points	Sensor error Reserved 8
VentActual.Cor_AlaPt(75)	L	116	-		Alarm Points	Sensor error Reserved 9
VentActual.Cor_AlaPt(76)	L	117	-		Alarm Points	Sensor error Reserved 10
VentActual.Cor_AlaPt(77)	L	118	BV, 20118		Alarm Points	Alarm Frequency Converter SAF

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_AlaPt(78)	L	119	BV, 20119		Alarm Points	Alarm Frequency Converter EAF
VentActual.Cor_AlaPt(79)	L	120	BV, 20120		Alarm Points	Communication error Frequency SAF
VentActual.Cor_AlaPt(80)	L	121	BV, 20121		Alarm Points	Communication error Frequency EAF
VentActual.Cor_AlaPt(81)	L	122	BV, 20122		Alarm Points	Communication error Expansion unit 1
VentActual.Cor_AlaPt(82)	L	123	BV, 20123		Alarm Points	Communication error Expansion unit 2
VentActual.Cor_AlaPt(83)	L	124	BV, 20124		Alarm Points	Warning Frequency Converter SAF
VentActual.Cor_AlaPt(84)	L	125	BV, 20125		Alarm Points	Warning Frequency Converter EAF
VentActual.Cor_AlaPt(85)	L	126	BV, 20126		Alarm Points	Output in manual mode
VentActual.Cor_AlaPt(86)	L	127	BV, 20127		Alarm Points	Time for service
VentActual.Cor_AlaPt(87)	L	128	BV, 20128		Alarm Points	Manual Y4-Extra Sequence control
VentActual.Cor_AlaPt(88)	L	129	BV, 20129		Alarm Points	Restart blocked after power-on
VentActual.Cor_DIReserved(2)	L	130	BV, 20130		Alarm Points	Not used
VentActual.Cor_DIReserved(3)	L	131	BV, 20131		Alarm Points	Not used
VentActual.Cor_DIReserved(4)	L	132	BV, 20132		Alarm Points	Not used
VentActual.Cor_DIReserved(5)	L	133	BV, 20133		Alarm Points	Not used
VentActual.Cor_DIReserved(6)	L	134	BV, 20134		Alarm Points	Not used
VentActual.Cor_DIReserved(7)	L	135	BV, 20135		Alarm Points	Not used
VentActual.Cor_DIReserved(8)	L	136	BV, 20136		Alarm Points	Not used
VentActual.Cor_DIReserved(9)	L	137	BV, 20137		Alarm Points	Not used
VentActual.Cor_DIReserved(10)	L	138	BV, 20138		Alarm Points	Not used

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
VentActual.Cor_DIReserved(11)	L	139	BV, 20139		Alarm Points	Not used
VentActual.Cor_DIReserved(12)	L	140	BV, 20140		Alarm Points	Not used
VentActual.Cor_DIReserved(13)	L	141	BV, 20141		Alarm Points	Not used
VentActual.Cor_DIReserved(14)	L	142	-		Alarm Points	Not used
VentActual.Cor_DIReserved(15)	L	143	-		Alarm Points	Not used
VentActual.Cor_DIReserved(16)	L	144	-		Alarm Points	Not used
InputOutput.Exp1DigIn1	L	145	-		Digital inputs	Value of DI1 Expansion unit 1
InputOutput.Exp1DigIn2	L	146	-		Digital inputs	Value of DI2 Expansion unit 1
InputOutput.Exp1DigIn3	L	147	-		Digital inputs	Value of DI3 Expansion unit 1
InputOutput.Exp1DigIn4	L	148	-		Digital inputs	Value of DI4 Expansion unit 1
InputOutput.Exp1DigIn5	L	149	-		Digital inputs	Value of DI5 Expansion unit 1
InputOutput.Exp1DigIn6	L	150	-		Digital inputs	Value of DI6 Expansion unit 1
InputOutput.Exp1DigIn7	L	151	-		Digital inputs	Value of DI7 Expansion unit 1
InputOutput.Exp1DigIn8	L	152	-		Digital inputs	Value of DI8 Expansion unit 1
InputOutput.Exp1DigIn9	L	153	-		Universal inputs	Value of UDI1 Expansion unit 1
InputOutput.Exp1DigIn10	L	154	-		Universal inputs	Value of UDI2 Expansion unit 1
InputOutput.Exp1DigIn11	L	155	-		Universal inputs	Value of UD3 Expansion unit 1
InputOutput.Exp1DigIn12	L	156	-		Universal inputs	Value of UD4 Expansion unit 1
InputOutput.Exp1DigOut1	L	157	-		Digital outputs	Value of DO1 Expansion unit 1
InputOutput.Exp1DigOut2	L	158	-		Digital outputs	Value of DO2 Expansion unit 1
InputOutput.Exp1DigOut3	L	159	-		Digital outputs	Value of DO3 Expansion unit 1

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
InputOutput.Exp1DigOut4	L	160	-		Digital outputs	Value of DO4 Expansion unit 1
InputOutput.Exp1DigOut5	L	161	-		Digital outputs	Value of DO5 Expansion unit 1
InputOutput.Exp1DigOut6	L	162	-		Digital outputs	Value of DO6 Expansion unit 1
InputOutput.Exp1DigOut7	L	163	-		Digital outputs	Value of DO7 Expansion unit 1
InputOutput.Exp2DigIn1	L	164	-		Digital inputs	Value of DI1 Expansion unit 2
InputOutput.Exp2DigIn2	L	165	-		Digital inputs	Value of DI2 Expansion unit 2
InputOutput.Exp2DigIn3	L	166	-		Digital inputs	Value of DI3 Expansion unit 2
InputOutput.Exp2DigIn4	L	167	-		Digital inputs	Value of DI4 Expansion unit 2
InputOutput.Exp2DigIn5	L	168	-		Digital inputs	Value of DI5 Expansion unit 2
InputOutput.Exp2DigIn6	L	169	-		Digital inputs	Value of DI6 Expansion unit 2
InputOutput.Exp2DigIn7	L	170	-		Digital inputs	Value of DI7 Expansion unit 2
InputOutput.Exp2DigIn8	L	171	-		Digital inputs	Value of DI8 Expansion unit 2
InputOutput.Exp2DigIn9	L	172	-		Universal inputs	Value of UDI1 Expansion unit 2
InputOutput.Exp2DigIn10	L	173	-		Universal inputs	Value of UDI2 Expansion unit 2
InputOutput.Exp2DigIn11	L	174	-		Universal inputs	Value of UDI3 Expansion unit 2
InputOutput.Exp2DigIn12	L	175	-		Universal inputs	Value of UDI4 Expansion unit 2
InputOutput.Exp2DigOut1	L	176	-		Digital outputs	Value of DO1 Expansion unit 2
InputOutput.Exp2DigOut2	L	177	-		Digital outputs	Value of DO2 Expansion unit 2
InputOutput.Exp2DigOut3	L	178	-		Digital outputs	Value of DO3 Expansion unit 2
InputOutput.Exp2DigOut4	L	179	-		Digital outputs	Value of DO4 Expansion unit 2

## Input Status Register

Variablenname	Variablentyp	Modbus-Adresse	BACnet	Standard-wert	Funktion	Beschreibung
InputOutput.Exp2DigOut5	L	180	-		Digital outputs	Value of DO5 Expansion unit 2
InputOutput.Exp2DigOut6	L	181	-		Digital outputs	Value of DO6 Expansion unit 2
InputOutput.Exp2DigOut7	L	182	-		Digital outputs	Value of DO7 Expansion unit 2
VentActual.Cor_RecycleRunActive	L	183	BV, 20183		Actual/Setpoint	Start signal Heat Pump
VentActual.Cor_SumAlarm	L	184	BV, 20184		Alarm Status	Sumalarm, is set if any A or B alarm
VentActual.Cor_SumAlarmA	L	185	BV, 20185		Alarm Status	A-alarm, is set if any A-alarm in controller
VentActual.Cor_SumAlarmB	L	186	BV, 20186		Alarm Status	B-alarm, is set if any B-alarm in controller
VentActual.Cor_DIReserved(20)	L	187	-		Not used	Not used
VentActual.Cor_DIReserved(20)	L	188	-		Not used	Not used
VentActual.Cor_DIReserved(20)	L	189	-		Not used	Not used
VentActual.Cor_DIReserved(20)	L	190	-		Not used	Not used
VentActual.Cor_DIReserved(20)	L	191	-		Not used	Not used
VentActual.Cor_DIReserved(20)	L	192	-		Not used	Not used

