



Corrigo ventilation

List of network variables for EXOline, Modbus and BACnet communication.
From version 3.4.



© Copyright AB Regin, Sweden, 2014



THE CHALLENGER IN BUILDING AUTOMATION

DISCLAIMER

The information in this manual has been carefully checked and is believed to be correct. Regin however, makes no warranties as regards the contents of this manual and users are requested to report errors, discrepancies or ambiguities to Regin, so that corrections may be made in future editions. The information in this document is subject to change without prior notification.

The software described in this document is supplied under licence by Regin and may be used or copied only in accordance with the terms of the licence. No part of this document may be reproduced or transmitted in any form, in any fashion, electronically or mechanically, without the express, written permission of Regin.

COPYRIGHT

© AB Regin. All rights reserved.

TRADEMARKS

Corrigo, E tool[®], EXOdesigner, EXOreal, EXOrealC, EXOline, EXO4, EXO4 Web Server, Optigo, Regio and Regio tool are registered trademarks of AB Regin.

Windows, Windows 2000, Windows XP, Windows 7, Windows 8 and Windows Server 2003 are registered trademarks of Microsoft Corporation.

Some product names mentioned in this document are used for identification purposes only and may be the registered trademarks of their respective companies.

Revision 16, May 2014

Software revision: 3.4

Table of contents

<i>CHAPTER 1 CORRIGO WITH EXOLINE, MODBUS AND BACNET COMMUNICATION</i>	<i>4</i>
<i>CHAPTER 2 SYSTEM INTEGRATION USING MODBUS</i>	<i>10</i>
<i>CHAPTER 3 COIL STATUS REGISTER</i>	<i>12</i>
<i>CHAPTER 4 INPUT REGISTER</i>	<i>13</i>
<i>CHAPTER 5 HOLDING REGISTER</i>	<i>31</i>
<i>CHAPTER 6 INPUT STATUS REGISTER</i>	<i>55</i>
<i>CHAPTER 7 FREQUENCY CONVERTERS AND PRESSURE TRANSMITTERS</i>	<i>62</i>

Chapter 1 Corrigo with EXOline, Modbus and BACnet communication

Introduction

Corrigo ventilation is a pre-programmed application for control of an air handling unit. The Corrigo controller can be used either stand-alone or integrated in an existing EXO project. In both cases, it is configured via the display or by using the configuration tool E tool[®] on a PC.

This document describes all signals that are accessible via EXOline, Modbus and BACnet. It does not describe how to create an EXO project.

Signal types

All signals accessible from a SCADA system are described further in this document. Signals with a default value are settings that can be changed via a SCADA system. Signals without a default value are actual values which cannot be changed using a SCADA system.

NOTE: In this manual, the term "Exhaust air" is used to describe the air extracted from inside of a building. The term "Extract air" is used to describe the air leaving a ventilation system.

EXOL type

The EXOL type of the signals:

R = Real (-3.3E38 - 3.3E38)

I = Integer (-32768 - 32767)

X = Index (0 - 255)

L = Logic (0/1)

Modbus type

The Modbus type of the signals:

1 = Coil Status Register (Modbus function = 1, 5 and 15)

2 = Input Status Register (Modbus function = 2)

3 = Holding Register (Modbus function = 3, 6 and 16)

4 = Input Register (Modbus function = 4)

Supported Modbus functions:

1 = Read Coils

2 = Read Discrete Input

3 = Read Holding Register

4 = Read Input Register

5 = Write Single Coil

6 = Write Single Register

15 = Write Multiple Coils

16 = Write Multiple Registers

BACnet communication

Corrigo is capable of communication via the BACnet protocol, using either IP or MS/TP data link formats. In order to connect a Corrigo running a ventilation application to a BAS (Building Automation System) via BACnet/IP, a third generation Corrigo with a TCP/IP port is required. To connect to a BAS via BACnet MS/TP, a third generation Corrigo with a second RS485 communication port is required.

BACnet type

The BACnet type of signals:

- 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)

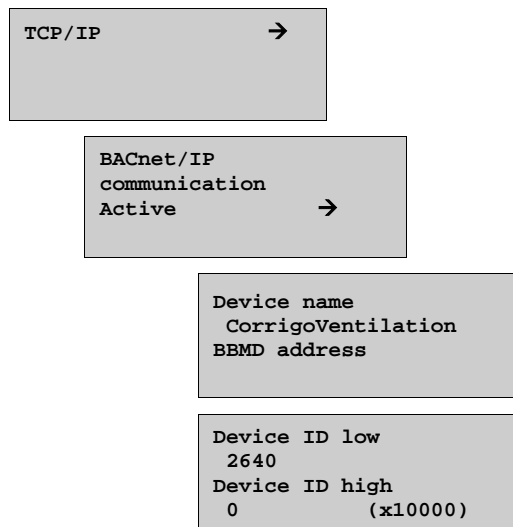
NOTE: In the variable lists contained in this manual, the following abbreviations are used:

- AV** = Analogue Value
- BV** = Binary Value
- MSV** = Multistate Value

BACnet object names are the same as for EXOL type objects, but are shortened by removing the preamble “Cor_” (e.g.: “**VentSettings.Cor_OverHeatFastStop**” becomes “**VentSettings.OverHeatFastStop**”, etc.).

BACnet/IP configuration

Upon delivery, the BACnet/IP protocol is disabled as a default. To enable BACnet communication, simply change the setting “Not active” to “Active”. The protocol will now be available for use:



Device name

This is the devices name that is shown on the BAS when a device is discovered.

BBMD address

The BBMD address (BACnet/IP Broadcast Management Device) is used for discovering devices that are attached to different BACnet/IP subnets and separated by an IP router. The address is entered as **host:port**, where “host” can be the host’s name if DNS is configured. If DNS is not configured, the host address should be entered in the format “xxx.xxx.xxx.xxx”, followed by the port number (default setting 47808).

Example: mybbmd:47808 (with DNS configured) or 10.100.50.99:47808

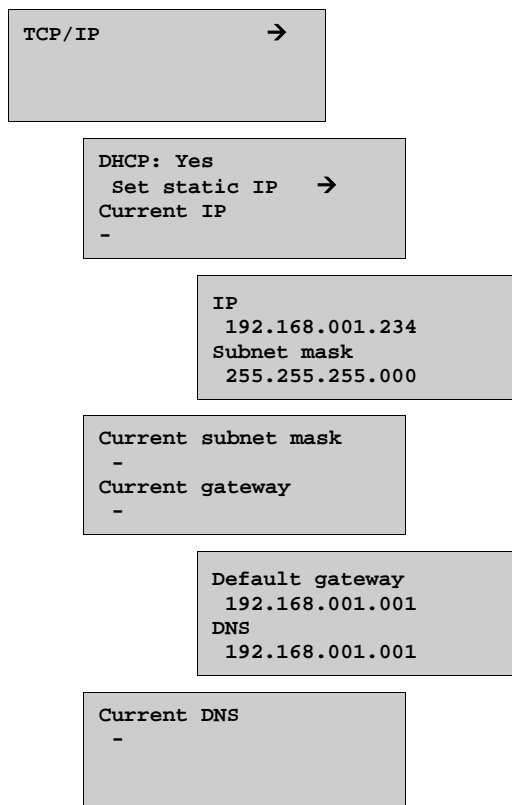
Device ID

The ID of a device, used to identify it on the BACnet network. This number **cannot** be duplicated **anywhere** on the BACnet network and must therefore be unique. To set an ID value of 34600, the low number would be set to 4600 and the high number to 3.

DHCP

The Dynamic Host Configuration Protocol (DHCP) is a network protocol used on Internet Protocol (IP) networks for dynamic distribution of network configuration parameters, such as IP addresses, DNS servers and other services. The Corrigo can be configured to either obtain an IP address from a DHCP server (dynamic) or the address can be set manually (static).

If you wish to set a static IP address for the Corrigo, simply enter the IP address you wish to use along with the subnet mask, gateway address and DNS server address:



BACnet MS/TP Configuration

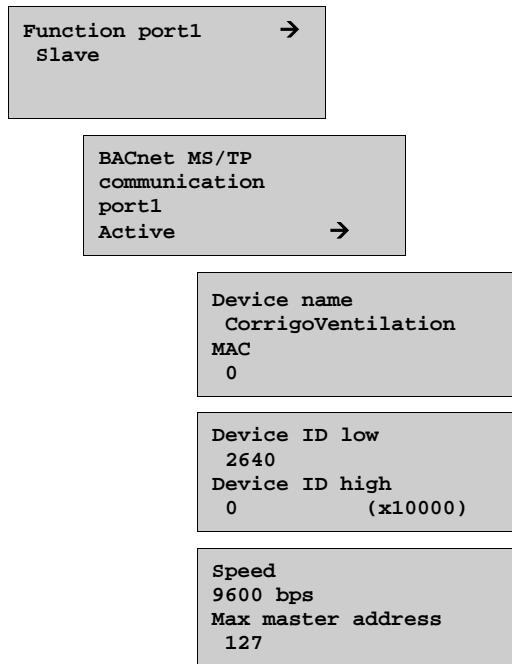
Upon delivery, the BACnet MS/TP protocol is disabled as a default. To enable BACnet communication, the function must first be activated. The default communication settings upon delivery are as follows:

Speed = 9600 bps

MAC address = 0

Device ID = 2640

Max Master = 127



Device name

This is the name of the device, as shown on the BAS when discovering devices.

MAC

The MAC address of the device. This needs to be unique only to the subnet to which the device is attached.

Device ID

The ID of a device, used to identify it on the BACnet network. This number **cannot** be duplicated **anywhere** on the BACnet network and must therefore be unique. To set an ID value of 34600, the low number would be set to 4600 and the high number to 3.

Speed

Sets the communication speed of the MS/TP network. This value is typically set to 38400 or 76800 but can be 9600, 19200, 38400 or 76800.

Max master address

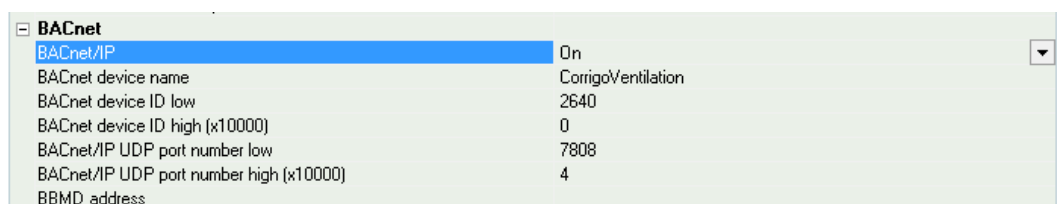
The max master is the MAC address of the highest master device on the BACnet MS/TP network segment. Setting this number above the highest MAC address will decrease network performance.

For additional information, see the Corrigo PICS document, available via www.regincontrols.com.

BACnet in E tool[®]

Addressing

The below picture illustrates the appearance of BACnet addressing in E tool[®]:



BACnet/IP = Activation status of BACnet/IP protocol.

BACnet device name = The name of the device.

The device ID is divided into two parts, one low and one high. For example: If the high part of the ID would be "1", then the device ID above would be "00012640".

BACnet device ID low = The lower part of the device identification.

BACnet device ID high (x10000) = The higher part of the device identification.

The port number is divided into two parts, one low and one high. For example: In the picture above, the port number is "47808".

BACnet/IP UDP port number low = Port number, lower part.

BACnet/IP UDP port number high (x10000) = Port number, higher part. This is the dedicated communication port.

BBMD address = BACnet Broadcast Management Device address. This is used for communication over the Internet between devices running BACnet.

Modbus

Communication limitations

The Modbus master must wait for a minimum of 3.5 character times (4 ms at 9600 bps) between two messages.

Scale factor Modbus

Real signals have scale factor 10, except for the time setting signals which have scale factor 100, and the air flow signals which have scale factor 1 for Modbus communication. Integer, Index and Logic always have scale factor 1.

Modbus wiring, etc.

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

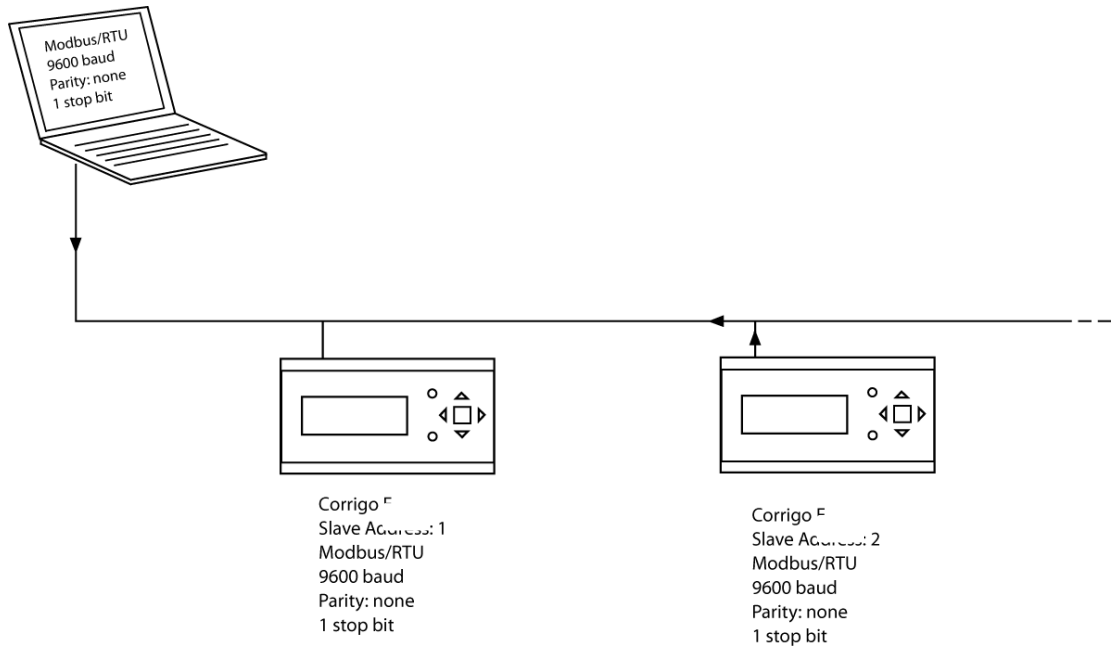
For Modbus, the bottom layer can be RS485, RS422, RS232 or Modbus TCP.

Max. 47 registers

A maximum of 47 registers can be read in one message.

Visualised example

The simplified example below visualises the Master/Slave relation. In addition to the figure, checksums for message validation are also transmitted in both query and answer.

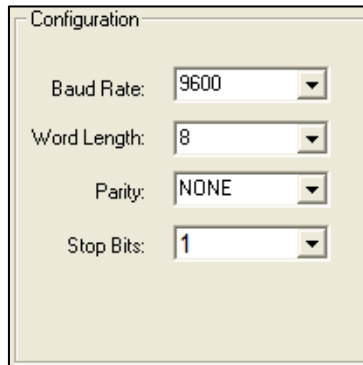


Chapter 2 System integration using Modbus

Configuration

The communication parameters for the Modbus line is the most important thing to configure first. As described earlier, these parameters must be identical in both the master unit and slave units, since they define the structure of messages and the transmission speed.

The default configuration values of a Corrigo controller are shown in the figure below.



The screenshot shows a 'Configuration' dialog box with four dropdown menus. The 'Baud Rate' is set to 9600, 'Word Length' is set to 8, 'Parity' is set to NONE, and 'Stop Bits' is set to 1.

Corrigo is set to Slave Address 1 as a default. If more units are added, a new Modbus address can be set for each unit using the Corrigo display or E tool[®].

Transmission mode

Corrigo uses the RTU transmission mode; not to be confused with the ASCII mode in the settings. The settings for the transmission mode must be the same in the master unit and the slave units, since Modbus/RTU cannot understand Modbus/ASCII messages. The configuration parameter Word length is always 8 for Modbus/RTU.



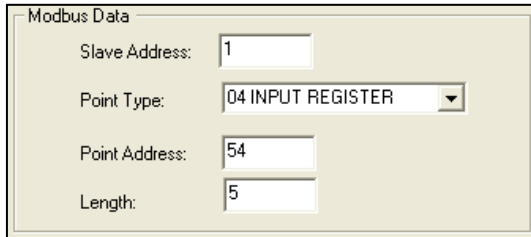
The screenshot shows a 'Transmission Mode' dialog box. It has the text 'STANDARD' at the top. Below it are two radio buttons: 'ASCII' (which is unselected) and 'RTU' (which is selected).

Writing values

To override the Corrigo output values, set the output to manual mode using a Modbus signal. Then set the corresponding ..._ManSet signal to the wanted level. These signals are listed in Chapter 5: Holding Registers. Remember that only values with a default value are adjustable, you will find these in the chapters Coil Status Register and Holding Register.

Reading values

An effective way to read values is to read multiple variables simultaneously. To, for example, read all analogue outputs, set the Modbus query to the values shown in the figure below. The first analogue output variable starts at address 54 (QAnaOut.AQ1). To read address 54 to 58, set the length to 5. The Modbus answer will then communicate all 5 values in just one message, making the communication more effective.



The image shows a software interface for configuring a Modbus query. It is titled "Modbus Data" and contains four input fields:

- Slave Address: 1
- Point Type: 04 INPUT REGISTER (selected from a dropdown menu)
- Point Address: 54
- Length: 5

Chapter 3 Coil Status Register

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 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	Set only if 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

Chapter 4 Input Register

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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=CO ₂ 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 8=Support control cooling 9=CO ₂ run 10=Night cooling 11=Full speed stop 12=Stopping fan
VentActual.Cor_SAFRunTime	R	4			Actual/Setpoint	Running time (hour) supply air fan
VentActual.Cor_EAFRunTime	R	5			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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentActual.Cor_RoomTemp2	R	11			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 ³ /h). Scale factor = 1
VentActual.Cor_EAFAirFlow	R	16	AV, 40016		SAF/EAF Pressure and Flow	Extract air fan flow (m ³ /h). Scale factor = 1
VentActual.Cor_CO2Sensor	R	17	AV, 40017		CO ₂	CO ₂ (ppm)
VentActual.Cor_DemandRunTime	I	18			CO ₂	Number of minutes support run time CO ₂
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_DeIcingTemp	R	21	AV, 40021		Extract air temp/De-icing exchanger	De-icing temp exchanger
VentActual.Cor_DeIcingTime	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 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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentSettings.Cor_Ai1(0)	X	34			Analogue inputs	Connected signal on AI1: 0=Not used 1=Outdoor temp 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 ₂ 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=Outdoor temp 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 ₂ 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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 9=Ext run 1/1 10=Ext run ½ 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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 ½ 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_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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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		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 outputs	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		Analogue outputs	Control signal split (0...10 V)
VentActual.Cor_SupplyPID_Output	R	126	AV, 40126		Supply, Extract and Room temperatures	Supply controller output (0...100 %)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 stopped (0...100 %)
VentActual.Cor_CO2PID_Output	R	131	AV, 40131		CO ₂	CO ₂ 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_Output	R	134	AV, 40134		Humidity	Humidity controller output (0...100 %)
VentActual.Cor_RoomTemp	R	135			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 ₂
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
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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentActual.Cor_SAFAirFlow2	R	154	AV, 40154		SAF/EAF Pressure and Flow	Counted air flow m ³ /h supply air 2 airflow = Cor_AirFlowK * Cor_SAFPressure2^Cor_AirFlowx)
VentActual.Cor_HumidityOutdoor	R	155			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
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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=Outdoor temp 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 ₂ 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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentSettings.Cor_ExpDi(4)	X	218			Digital inputs	Connected signal on DI5 Exp. Unit 1: (See signal list for DI1)
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: (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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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)
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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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)
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_SAFMotorSpeed Hz	R	272			SAF/EAF Pressure and Flow	SAF Motor speed Hz
VentActual.Cor_SAFMotorCurrent	R	273			SAF/EAF Pressure and Flow	SAF Motor current A
VentActual.Cor_SAFMotorPower	R	274			SAF/EAF Pressure and Flow	SAF Motor Power % of nominal
VentActual.Cor_SAFAccumPower	R	275			SAF/EAF Pressure and Flow	SAF Accumulated Power consumption
VentActual.Cor_EAFMotorSpeed Hz	R	276			SAF/EAF Pressure and Flow	EAF Motor speed Hz
VentActual.Cor_EAFMotorCurrent	R	277			SAF/EAF Pressure and Flow	EAF Motor current A
VentActual.Cor_EAFMotorPower	R	278			SAF/EAF Pressure and Flow	EAF Motor Power % of nominal
VentActual.Cor_EAFAccumPower	R	279			SAF/EAF Pressure and Flow	EAF Accumulated Power consumption
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		Analogue outputs	Control signal Heating or Cooling controlled by changeover (0...10 V)
VentActual.Cor_ExtraSeqCV1	R	283	AV, 40283		Analogue outputs	Control signal extra sequence Y4 (0...10 V)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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 ³ /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 ³ /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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
AlaData.AlaPt99_Status	X	312			Alarm Status	High temp Extra sensor 5
AlaData.AlaPt100_Status	X	313			Alarm Status	Low temp Extra sensor 5
AlaData.AlaPt101_Status	X	314			Alarm Status	Extra alarm 1
AlaData.AlaPt102_Status	X	315			Alarm Status	Extra alarm 2
AlaData.AlaPt103_Status	X	316			Alarm Status	Extra alarm 3
AlaData.AlaPt104_Status	X	317			Alarm Status	Extra alarm 4
AlaData.AlaPt105_Status	X	318			Alarm Status	Extra alarm 5
AlaData.AlaPt106_Status	X	319			Alarm Status	Extra alarm 6
AlaData.AlaPt107_Status	X	320			Alarm Status	Extra alarm 7
AlaData.AlaPt108_Status	X	321			Alarm Status	Extra alarm 8
AlaData.AlaPt109_Status	X	322			Alarm Status	Extra alarm 9
AlaData.AlaPt110_Status	X	323			Alarm Status	Extra alarm 10
AlaData.AlaPt111_Status	X	324			Alarm Status	Extra unit in manual mode
AlaData.AlaPt112_Status	X	325			Alarm Status	Run error Motor control 1
AlaData.AlaPt113_Status	X	326			Alarm Status	Run error Motor control 2
AlaData.AlaPt114_Status	X	327			Alarm Status	Motor control 1 external operation
AlaData.AlaPt115_Status	X	328			Alarm Status	Motor control 2 external operation
VentActual.Cor_EfficiencyTemp	R	329	AV, 40329		Actual/Setpoint	Temperature efficiency sensor
VentActual.Cor_TemperatureOutput	R	330			Actual/Setpoint	This is an analogue output signal with a selectable temperature output; the selected temperature being presented here as 0....10 V
VentActual.Cor_TotalPower	R	331			Actual/Setpoint	Total calculated power consumption (kW)

Chapter 5 Holding Register

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentSettings.Cor_Supply Setpoint	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 curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X2	R	3		-15°C	Supply, Extract and Room temperatures	Outdoor temp for second curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X3	R	4		-10°C	Supply, Extract and Room temperatures	Outdoor temp for third curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X4	R	5		-5°C	Supply, Extract and Room temperatures	Outdoor temp for fourth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X5	R	6		0°C	Supply, Extract and Room temperatures	Outdoor temp for fifth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X6	R	7		5°C	Supply, Extract and Room temperatures	Outdoor temp for sixth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X7	R	8		10°C	Supply, Extract and Room temperatures	Outdoor temp for seventh curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_X8	R	9		15°C	Supply, Extract and Room temperatures	Outdoor temp for eighth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y1	R	10		25°C	Supply, Extract and Room temperatures	Setpoint for first curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y2	R	11		24°C	Supply, Extract and Room temperatures	Setpoint for second curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y3	R	12		23°C	Supply, Extract and Room temperatures	Setpoint for third curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y4	R	13		23°C	Supply, Extract and Room temperatures	Setpoint for fourth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y5	R	14		22°C	Supply, Extract and Room temperatures	Setpoint for fifth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y6	R	15		20°C	Supply, Extract and Room temperatures	Setpoint for sixth curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y7	R	16		18°C	Supply, Extract and Room temperatures	Setpoint for seventh curve point for outdoor compensated setpoint
VentSettings.Cor_Curve1_Y8	R	17		18°C	Supply, Extract and Room temperatures	Setpoint for eight curve point 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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 ³ /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 ³ /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 ³ /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 ³ /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 ₂	Setpoint CO ₂
VentSettings.Cor_FrostProtSPStop	R	33	AV, 30033	25°C	Frost protection	Setpoint frost protection if the ventilation unit is stopped
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(0).T1	R	40		7	Timer Normal Speed	Start time period 1 Mon. normal speed (HH.MM)
TimeDp.Posts(0).T2	R	41		16	Timer Normal Speed	Stop time period 1 Mon. normal speed
TimeDp.Posts(0).T3	R	42		0	Timer Normal Speed	Start time period 2 Mon. normal speed
TimeDp.Posts(0).T4	R	43		0	Timer Normal Speed	Stop time period 2 Mon. normal speed
TimeDp.Posts(1).T1	R	44		7	Timer Normal Speed	Start time period 1 Tue. normal speed
TimeDp.Posts(1).T2	R	45		16	Timer Normal Speed	Stop time period 1 Tue. normal speed
TimeDp.Posts(1).T3	R	46		0	Timer Normal Speed	Start time period 2 Tue. normal speed
TimeDp.Posts(1).T4	R	47		0	Timer Normal Speed	Stop time period 2 Tue. normal speed
TimeDp.Posts(2).T1	R	48		7	Timer Normal Speed	Start time period 1 Wed. normal speed
TimeDp.Posts(2).T2	R	49		16	Timer Normal Speed	Stop time period 1 Wed. normal speed
TimeDp.Posts(2).T3	R	50		0	Timer Normal Speed	Start time period 2 Wed. normal speed
TimeDp.Posts(2).T4	R	51		0	Timer Normal Speed	Stop time period 2 Wed. normal speed
TimeDp.Posts(3).T1	R	52		7	Timer Normal Speed	Start time period 1 Thu. normal speed
TimeDp.Posts(3).T2	R	53		16	Timer Normal Speed	Stop time period 1 Thu. normal speed
TimeDp.Posts(3).T3	R	54		0	Timer Normal Speed	Start time period 2 Thu. normal speed
TimeDp.Posts(3).T4	R	55		0	Timer Normal Speed	Stop time period 2 Thu. normal speed
TimeDp.Posts(4).T1	R	56		7	Timer Normal Speed	Start time period 1 Fri. normal speed
TimeDp.Posts(4).T2	R	57		16	Timer Normal Speed	Stop time period 1 Fri. normal speed
TimeDp.Posts(4).T3	R	58		0	Timer Normal Speed	Start time period 2 Fri. normal speed
TimeDp.Posts(4).T4	R	59		0	Timer Normal Speed	Stop time period 2 Fri. normal speed
TimeDp.Posts(5).T1	R	60		0	Timer Normal Speed	Start time period 1 Sat. normal speed
TimeDp.Posts(5).T2	R	61		0	Timer Normal Speed	Stop time period 1 Sat. normal speed
TimeDp.Posts(5).T3	R	62		0	Timer Normal Speed	Start time period 2 Sat. normal speed
TimeDp.Posts(5).T4	R	63		0	Timer Normal Speed	Stop time period 2 Sat. normal speed
TimeDp.Posts(6).T1	R	64		0	Timer Normal Speed	Start time period 1 Sun. normal speed
TimeDp.Posts(6).T2	R	65		0	Timer Normal Speed	Stop time period 1 Sun. normal speed
TimeDp.Posts(6).T3	R	66		0	Timer Normal Speed	Start time period 2 Sun. normal speed
TimeDp.Posts(6).T4	R	67		0	Timer Normal Speed	Stop time period 2 Sun. 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 Mon. reduced speed (HH.MM)
TimeDp.Posts(8).T2	R	73		0	Timer Reduced Speed	Stop time period 1 Mon. reduced speed

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(8).T3	R	74		0	Timer Reduced Speed	Start time period 2 Mon. reduced speed
TimeDp.Posts(8).T4	R	75		0	Timer Reduced Speed	Stop time period 2 Mon. reduced speed
TimeDp.Posts(9).T1	R	76		0	Timer Reduced Speed	Start time period 1 Tue. reduced speed
TimeDp.Posts(9).T2	R	77		0	Timer Reduced Speed	Stop time period 1 Tue. reduced speed
TimeDp.Posts(9).T3	R	78		0	Timer Reduced Speed	Start time period 2 Tue. reduced speed
TimeDp.Posts(9).T4	R	79		0	Timer Reduced Speed	Stop time period 2 Tue. reduced speed
TimeDp.Posts(10).T1	R	80		0	Timer Reduced Speed	Start time period 1 Wed. reduced speed
TimeDp.Posts(10).T2	R	81		0	Timer Reduced Speed	Stop time period 1 Wed. reduced speed
TimeDp.Posts(10).T3	R	82		0	Timer Reduced Speed	Start time period 2 Wed. reduced speed
TimeDp.Posts(10).T4	R	83		0	Timer Reduced Speed	Stop time period 2 Wed. reduced speed
TimeDp.Posts(11).T1	R	84		0	Timer Reduced Speed	Start time period 1 Thu. reduced speed
TimeDp.Posts(11).T2	R	85		0	Timer Reduced Speed	Stop time period 1 Thu. reduced speed
TimeDp.Posts(11).T3	R	86		0	Timer Reduced Speed	Start time period 2 Thu. reduced speed
TimeDp.Posts(11).T4	R	87		0	Timer Reduced Speed	Stop time period 2 Thu. reduced speed
TimeDp.Posts(12).T1	R	88		0	Timer Reduced Speed	Start time period 1 Fri. reduced speed
TimeDp.Posts(12).T2	R	89		0	Timer Reduced Speed	Stop time period 1 Fri. reduced speed
TimeDp.Posts(12).T3	R	90		0	Timer Reduced Speed	Start time period 2 Fri. reduced speed
TimeDp.Posts(12).T4	R	91		0	Timer Reduced Speed	Stop time period 2 Fri. reduced speed
TimeDp.Posts(13).T1	R	92		0	Timer Reduced Speed	Start time period 1 Sat. reduced speed
TimeDp.Posts(13).T2	R	93		0	Timer Reduced Speed	Stop time period 1 Sat. reduced speed
TimeDp.Posts(13).T3	R	94		0	Timer Reduced Speed	Start time period 2 Sat. reduced speed
TimeDp.Posts(13).T4	R	95		0	Timer Reduced Speed	Stop time period 2 Sat. reduced speed
TimeDp.Posts(14).T1	R	96		0	Timer Reduced Speed	Start time period 1 Sun. reduced speed
TimeDp.Posts(14).T2	R	97		0	Timer Reduced Speed	Stop time period 1 Sun. reduced speed
TimeDp.Posts(14).T3	R	98		0	Timer Reduced Speed	Start time period 2 Sun. reduced speed
TimeDp.Posts(14).T4	R	99		0	Timer Reduced Speed	Stop time period 2 Sun. 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 Mon. timer output 1 (HH.MM)
TimeDp.Posts(16).T2	R	105		16	Timer Output 1	Stop time period 1 Mon. timer output 1
TimeDp.Posts(16).T3	R	106		0	Timer Output 1	Start time period 2 Mon. timer output 1
TimeDp.Posts(16).T4	R	107		0	Timer Output 1	Stop time period 2 Mon. timer output 1

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(17).T1	R	108		7	Timer Output 1	Start time period 1 Tue. timer output 1
TimeDp.Posts(17).T2	R	109		16	Timer Output 1	Stop time period 1 Tue. timer output 1
TimeDp.Posts(17).T3	R	110		0	Timer Output 1	Start time period 2 Tue. timer output 1
TimeDp.Posts(17).T4	R	111		0	Timer Output 1	Stop time period 2 Tue. timer output 1
TimeDp.Posts(18).T1	R	112		7	Timer Output 1	Start time period 1 Wed. timer output 1
TimeDp.Posts(18).T2	R	113		16	Timer Output 1	Stop time period 1 Wed. timer output 1
TimeDp.Posts(18).T3	R	114		0	Timer Output 1	Start time period 2 Wed. timer output 1
TimeDp.Posts(18).T4	R	115		0	Timer Output 1	Stop time period 2 Wed. timer output 1
TimeDp.Posts(19).T1	R	116		7	Timer Output 1	Start time period 1 Thu. timer output 1
TimeDp.Posts(19).T2	R	117		16	Timer Output 1	Stop time period 1 Thu. timer output 1
TimeDp.Posts(19).T3	R	118		0	Timer Output 1	Start time period 2 Thu. timer output 1
TimeDp.Posts(19).T4	R	119		0	Timer Output 1	Stop time period 2 Thu. timer output 1
TimeDp.Posts(20).T1	R	120		7	Timer Output 1	Start time period 1 Fri. timer output 1
TimeDp.Posts(20).T2	R	121		16	Timer Output 1	Stop time period 1 Fri. timer output 1
TimeDp.Posts(20).T3	R	122		0	Timer Output 1	Start time period 2 Fri. timer output 1
TimeDp.Posts(20).T4	R	123		0	Timer Output 1	Stop time period 2 Fri. timer output 1
TimeDp.Posts(21).T1	R	124		0	Timer Output 1	Start time period 1 Sat. timer output 1
TimeDp.Posts(21).T2	R	125		0	Timer Output 1	Stop time period 1 Sat. timer output 1
TimeDp.Posts(21).T3	R	126		0	Timer Output 1	Start time period 2 Sat. timer output 1
TimeDp.Posts(21).T4	R	127		0	Timer Output 1	Stop time period 2 Sat. timer output 1
TimeDp.Posts(22).T1	R	128		0	Timer Output 1	Start time period 1 Sun. timer output 1
TimeDp.Posts(22).T2	R	129		0	Timer Output 1	Stop time period 1 Sun. timer output 1
TimeDp.Posts(22).T3	R	130		0	Timer Output 1	Start time period 2 Sun. timer output 1
TimeDp.Posts(22).T4	R	131		0	Timer Output 1	Stop time period 2 Sun. 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 Mon. timer output 2 (HH.MM)
TimeDp.Posts(24).T2	R	137		16	Timer Output 2	Stop time period 1 Mon. timer output 2
TimeDp.Posts(24).T3	R	138		0	Timer Output 2	Start time period 2 Mon. timer output 2
TimeDp.Posts(24).T4	R	139		0	Timer Output 2	Stop time period 2 Mon. timer output 2
TimeDp.Posts(25).T1	R	140		7	Timer Output 2	Start time period 1 Tue. timer output 2
TimeDp.Posts(25).T2	R	141		16	Timer Output 2	Stop time period 1 Tue. timer output 2

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(25).T3	R	142		0	Timer Output 2	Start time period 2 Tue. timer output 2
TimeDp.Posts(25).T4	R	143		0	Timer Output 2	Stop time period 2 Tue. timer output 2
TimeDp.Posts(26).T1	R	144		7	Timer Output 2	Start time period 1 Wed. timer output 2
TimeDp.Posts(26).T2	R	145		16	Timer Output 2	Stop time period 1 Wed. timer output 2
TimeDp.Posts(26).T3	R	146		0	Timer Output 2	Start time period 2 Wed. timer output 2
TimeDp.Posts(26).T4	R	147		0	Timer Output 2	Stop time period 2 Wed. timer output 2
TimeDp.Posts(27).T1	R	148		7	Timer Output 2	Start time period 1 Thu. timer output 2
TimeDp.Posts(27).T2	R	149		16	Timer Output 2	Stop time period 1 Thu. timer output 2
TimeDp.Posts(27).T3	R	150		0	Timer Output 2	Start time period 2 Thu. timer output 2
TimeDp.Posts(27).T4	R	151		0	Timer Output 2	Stop time period 2 Thu. timer output 2
TimeDp.Posts(28).T1	R	152		7	Timer Output 2	Start time period 1 Fri. timer output 2
TimeDp.Posts(28).T2	R	153		16	Timer Output 2	Stop time period 1 Fri. timer output 2
TimeDp.Posts(28).T3	R	154		0	Timer Output 2	Start time period 2 Fri. timer output 2
TimeDp.Posts(28).T4	R	155		0	Timer Output 2	Stop time period 2 Fri. timer output 2
TimeDp.Posts(29).T1	R	156		0	Timer Output 2	Start time period 1 Sat. timer output 2
TimeDp.Posts(29).T2	R	157		0	Timer Output 2	Stop time period 1 Sat. timer output 2
TimeDp.Posts(29).T3	R	158		0	Timer Output 2	Start time period 2 Sat. timer output 2
TimeDp.Posts(29).T4	R	159		0	Timer Output 2	Stop time period 2 Sat. timer output 2
TimeDp.Posts(30).T1	R	160		0	Timer Output 2	Start time period 1 Sun. timer output 2
TimeDp.Posts(30).T2	R	161		0	Timer Output 2	Stop time period 1 Sun. timer output 2
TimeDp.Posts(30).T3	R	162		0	Timer Output 2	Start time period 2 Sun. timer output 2
TimeDp.Posts(30).T4	R	163		0	Timer Output 2	Stop time period 2 Sun. 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
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 Mon. timer output 3 (HH.MM)
TimeDp.Posts(32).T2	R	169		16	Timer Output 3	Stop time period 1 Mon. timer output 3
TimeDp.Posts(32).T3	R	170		0	Timer Output 3	Start time period 2 Mon. timer output 3
TimeDp.Posts(32).T4	R	171		0	Timer Output 3	Stop time period 2 Mon. timer output 3
TimeDp.Posts(33).T1	R	172		7	Timer Output 3	Start time period 1 Tue. timer output 3
TimeDp.Posts(33).T2	R	173		16	Timer Output 3	Stop time period 1 Tue. timer output 3
TimeDp.Posts(33).T3	R	174		0	Timer Output 3	Start time period 2 Tue. timer output 3
TimeDp.Posts(33).T4	R	175		0	Timer Output 3	Stop time period 2 Tue. timer output 3

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(34).T1	R	176		7	Timer Output 3	Start time period 1 Wed. timer output 3
TimeDp.Posts(34).T2	R	177		16	Timer Output 3	Stop time period 1 Wed. timer output 3
TimeDp.Posts(34).T3	R	178		0	Timer Output 3	Start time period 2 Wed. timer output 3
TimeDp.Posts(34).T4	R	179		0	Timer Output 3	Stop time period 2 Wed. timer output 3
TimeDp.Posts(35).T1	R	180		7	Timer Output 3	Start time period 1 Thu. timer output 3
TimeDp.Posts(35).T2	R	181		16	Timer Output 3	Stop time period 1 Thu. timer output 3
TimeDp.Posts(35).T3	R	182		0	Timer Output 3	Start time period 2 Thu. timer output 3
TimeDp.Posts(35).T4	R	183		0	Timer Output 3	Stop time period 2 Thu. timer output 3
TimeDp.Posts(36).T1	R	184		7	Timer Output 3	Start time period 1 Fri. timer output 3
TimeDp.Posts(36).T2	R	185		16	Timer Output 3	Stop time period 1 Fri. timer output 3
TimeDp.Posts(36).T3	R	186		0	Timer Output 3	Start time period 2 Fri. timer output 3
TimeDp.Posts(36).T4	R	187		0	Timer Output 3	Stop time period 2 Fri. timer output 3
TimeDp.Posts(37).T1	R	188		0	Timer Output 3	Start time period 1 Sat. timer output 3
TimeDp.Posts(37).T2	R	189		0	Timer Output 3	Stop time period 1 Sat. timer output 3
TimeDp.Posts(37).T3	R	190		0	Timer Output 3	Start time period 2 Sat. timer output 3
TimeDp.Posts(37).T4	R	191		0	Timer Output 3	Stop time period 2 Sat. timer output 3
TimeDp.Posts(38).T1	R	192		0	Timer Output 3	Start time period 1 Sun. timer output 3
TimeDp.Posts(38).T2	R	193		0	Timer Output 3	Stop time period 1 Sun. timer output 3
TimeDp.Posts(38).T3	R	194		0	Timer Output 3	Start time period 2 Sun. timer output 3
TimeDp.Posts(38).T4	R	195		0	Timer Output 3	Stop time period 2 Sun. 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 Mon. timer output 4 (HH.MM)
TimeDp.Posts(40).T2	R	201		16	Timer Output 4	Stop time period 1 Mon. timer output 4
TimeDp.Posts(40).T3	R	202		0	Timer Output 4	Start time period 2 Mon. timer output 4
TimeDp.Posts(40).T4	R	203		0	Timer Output 4	Stop time period 2 Mon. timer output 4
TimeDp.Posts(41).T1	R	204		7	Timer Output 4	Start time period 1 Tue. timer output 4
TimeDp.Posts(41).T2	R	205		16	Timer Output 4	Stop time period 1 Tue. timer output 4
TimeDp.Posts(41).T3	R	206		0	Timer Output 4	Start time period 2 Tue. timer output 4
TimeDp.Posts(41).T4	R	207		0	Timer Output 4	Stop time period 2 Tue. timer output 4
TimeDp.Posts(42).T1	R	208		7	Timer Output 4	Start time period 1 Wed. timer output 4
TimeDp.Posts(42).T2	R	209		16	Timer Output 4	Stop time period 1 Wed. timer output 4

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(42).T3	R	210		0	Timer Output 4	Start time period 2 Wed. timer output 4
TimeDp.Posts(42).T4	R	211		0	Timer Output 4	Stop time period 2 Wed. timer output 4
TimeDp.Posts(43).T1	R	212		7	Timer Output 4	Start time period 1 Thu. timer output 4
TimeDp.Posts(43).T2	R	213		16	Timer Output 4	Stop time period 1 Thu. timer output 4
TimeDp.Posts(43).T3	R	214		0	Timer Output 4	Start time period 2 Thu. timer output 4
TimeDp.Posts(43).T4	R	215		0	Timer Output 4	Stop time period 2 Thu. timer output 4
TimeDp.Posts(44).T1	R	216		7	Timer Output 4	Start time period 1 Fri. timer output 4
TimeDp.Posts(44).T2	R	217		16	Timer Output 4	Stop time period 1 Fri. timer output 4
TimeDp.Posts(44).T3	R	218		0	Timer Output 4	Start time period 2 Fri. timer output 4
TimeDp.Posts(44).T4	R	219		0	Timer Output 4	Stop time period 2 Fri. timer output 4
TimeDp.Posts(45).T1	R	220		0	Timer Output 4	Start time period 1 Sat. timer output 4
TimeDp.Posts(45).T2	R	221		0	Timer Output 4	Stop time period 1 Sat. timer output 4
TimeDp.Posts(45).T3	R	222		0	Timer Output 4	Start time period 2 Sat. timer output 4
TimeDp.Posts(45).T4	R	223		0	Timer Output 4	Stop time period 2 Sat. timer output 4
TimeDp.Posts(46).T1	R	224		0	Timer Output 4	Start time period 1 Sun. timer output 4
TimeDp.Posts(46).T2	R	225		0	Timer Output 4	Stop time period 1 Sun. timer output 4
TimeDp.Posts(46).T3	R	226		0	Timer Output 4	Start time period 2 Sun. timer output 4
TimeDp.Posts(46).T4	R	227		0	Timer Output 4	Stop time period 2 Sun. 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 Mon. timer output 5 (HH.MM)
TimeDp.Posts(48).T2	R	233		16	Timer Output 5	Stop time period 1 Mon. timer output 5
TimeDp.Posts(48).T3	R	234		0	Timer Output 5	Start time period 2 Mon. timer output 5
TimeDp.Posts(48).T4	R	235		0	Timer Output 5	Stop time period 2 Mon. timer output 5
TimeDp.Posts(49).T1	R	236		7	Timer Output 5	Start time period 1 Tue. timer output 5
TimeDp.Posts(49).T2	R	237		16	Timer Output 5	Stop time period 1 Tue. timer output 5
TimeDp.Posts(49).T3	R	238		0	Timer Output 5	Start time period 2 Tue. timer output 5
TimeDp.Posts(49).T4	R	239		0	Timer Output 5	Stop time period 2 Tue. timer output 5
TimeDp.Posts(50).T1	R	240		7	Timer Output 5	Start time period 1 Wed. timer output 5
TimeDp.Posts(50).T2	R	241		16	Timer Output 5	Stop time period 1 Wed. timer output 5
TimeDp.Posts(50).T3	R	242		0	Timer Output 5	Start time period 2 Wed. timer output 5
TimeDp.Posts(50).T4	R	243		0	Timer Output 5	Stop time period 2 Wed. timer output 5

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimeDp.Posts(51).T1	R	244		7	Timer Output 5	Start time period 1 Thu. timer output 5
TimeDp.Posts(51).T2	R	245		16	Timer Output 5	Stop time period 1 Thu. timer output 5
TimeDp.Posts(51).T3	R	246		0	Timer Output 5	Start time period 2 Thu. timer output 5
TimeDp.Posts(51).T4	R	247		0	Timer Output 5	Stop time period 2 Thu. timer output 5
TimeDp.Posts(52).T1	R	248		7	Timer Output 5	Start time period 1 Fri. timer output 5
TimeDp.Posts(52).T2	R	249		16	Timer Output 5	Stop time period 1 Fri. timer output 5
TimeDp.Posts(52).T3	R	250		0	Timer Output 5	Start time period 2 Fri. timer output 5
TimeDp.Posts(52).T4	R	251		0	Timer Output 5	Stop time period 2 Fri. timer output 5
TimeDp.Posts(53).T1	R	252		0	Timer Output 5	Start time period 1 Sat. timer output 5
TimeDp.Posts(53).T2	R	253		0	Timer Output 5	Stop time period 1 Sat. timer output 5
TimeDp.Posts(53).T3	R	254		0	Timer Output 5	Start time period 2 Sat. timer output 5
TimeDp.Posts(53).T4	R	255		0	Timer Output 5	Stop time period 2 Sat. timer output 5
TimeDp.Posts(54).T1	R	256		0	Timer Output 5	Start time period 1 Sun. timer output 5
TimeDp.Posts(54).T2	R	257		0	Timer Output 5	Stop time period 1 Sun. timer output 5
TimeDp.Posts(54).T3	R	258		0	Timer Output 5	Start time period 2 Sun. timer output 5
TimeDp.Posts(54).T4	R	259		0	Timer Output 5	Stop time period 2 Sun. 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)
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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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)
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)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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)
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_ExtractPID_PGain	R	314		100°C	Settings, Control Temp	P-band extract air control
VentSettings.Cor_ExtractPID_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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 ³ /h	Settings, Control Flow	P-band flow control SAF
VentSettings.Cor_SAFPID_ITime	R	327		60 s	Settings, Control Flow	I-time flow control SAF
VentSettings.Cor_EAFAirFlowPID_PGain	R	328		1000 m ³ /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_ExtractAirTempHigh	R	335	AV, 30335	30°C	Settings, Alarm Limits	High alarm limit extract air temp
VentSettings.Cor_ExtractAirTempLow	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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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		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
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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: 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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 frequence 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 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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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: 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_Outdoor temp(0)	R	392	AV, 30392		Actual/Setpoint	Outdoor temperature (Can be modified if it's not connected to a physical analogue input).
TimePro.TimeGroupStatusFanFullSpeed	X	393	MSV, 30393	4	Manual/Auto	Manual/Auto Full Speed time channel: Modbus: 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto BACnet: 1=Manual-Off 2=Manual-On 3=Forced Off 4=Forced On 5=Auto
TimePro.TimeGroupStatusFanHalfSpeed	X	394	MSV, 30394	4	Manual/Auto	Manual/Auto Half Speed time channel: Modbus: 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto BACnet: 1=Manual-Off 2=Manual-On 3=Forced Off 4=Forced On 5=Auto
TimePro.TimeGroupStatusCor_ExtraTimeGroup1	X	395		4	Manual/Auto	Manual/Auto Timer output 1: 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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: 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
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: Modbus: 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto BACnet: 1=Manual-Off 2=Manual-On 3=Forced Off 4=Forced On 5=Auto
Alarms.AlaAcknow	X	400		255	Alarm Acknowledging, Blocking and Unblocking	External alarm acknowledge by setting this signal to the alarm number that should be 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 stopped
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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_Comp1 Pressure	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_Comp2 Pressure	R	416		0	SAF/EAF Pressure and Flow	Pressure compensation at breakpoint 2
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	AV, 30424	75 %	SAF/EAF Pressure and Flow	Output signal (0...100 %) full speed SAF if Frequency control manually
VentSettings.Cor_SAFHalfspeedOutput	R	425	AV, 30425	50 %	SAF/EAF Pressure and Flow	Output signal (0...100 %) half speed SAF if Frequency control manually
VentSettings.Cor_EAFFullspeedOutput	R	426	AV, 30426	75 %	SAF/EAF Pressure and Flow	Output signal (0...100 %) full speed EAF if Frequency control manually
VentSettings.Cor_EAFHalfspeedOutput	R	427	AV, 30427	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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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 opened
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 airflow = Cor_AirFlowK * Cor_SAFPressure^Cor_AirFlowx
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 Pressure and Flow	K-constant for counting air flow EAF airflow = Cor_AirFlowK * Cor_SAFPressure^Cor_AirFlowx
VentSettings.Cor_EAFAirFlowx	R	446		0.5	SAF/EAF Pressure and Flow	X-constant for counting air flow EAF

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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: Modbus: 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
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_PreTreatmentHyst	R	454		1	Settings, PreTreatment	Hysteresis to start/stop pretreatment
VentSettings.Cor_PreTreatmentMinDiff	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_PreTreatmentFreeCool	X	457		0	Settings, PreTreatment	Select whether pretreatment should be activated during free cooling
VentSettings.Cor_PreTreatmentBlockTime	X	458		6	Settings, PreTreatment	Hour that pretreatment is blocked if diff. intake/outdoor is too low
VentSettings.Cor_PreTreatmentMinRunTime	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_RecirculationSetPOffset	R	462		0	Recirculation	Offset for recirculation setpoint

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentSettings.Cor_RecycleSetPControl	X	463		0	Recirculation	Select if constant setpoint or setpoint adjustment when recirculation runs: 0=Constant setpoint 1=Supply air setpoint with adjustment
VentSettings.Cor_RecycleTempControl	X	464		0	Recirculation	Enable supply air temp control when recirculation runs: 0=No temp control 1=Heating/cooling 2=Only heating 3=Only cooling
VentSettings.Cor_DemandCO2Value1	R	465	AV, 30465	800	CO ₂	Activation of demand-controlled ventilation, 1/2-speed
VentSettings.Cor_DemandCO2Value2	R	466	AV, 30466	1000	CO ₂	Activation of demand-controlled ventilation, 1/1-speed
VentSettings.Cor_DemandCO2Diff	R	467	AV, 30467	160	CO ₂	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
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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 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_ExchangeType	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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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)
VentSettings.Cor_FilterGuard1Limit_X1	R	501		1000	Settings, Alarm limits	Alarm limit filter guard 1 X1 (m ³ /h)
VentSettings.Cor_FilterGuard1Limit_Y1	R	502		50	Settings, Alarm limits	Alarm limit filter guard 1 Y1 (Pa)
VentSettings.Cor_FilterGuard1Limit_X2	R	503		2000	Settings, Alarm limits	Alarm limit filter guard 1 X2 (m ³ /h)
VentSettings.Cor_FilterGuard1Limit_Y2	R	504		150	Settings, Alarm limits	Alarm limit filter guard 1 Y2 (Pa)
VentSettings.Cor_FilterGuard2Limit_X1	R	505		1000	Settings, Alarm limits	Alarm limit filter guard 2 X1 (m ³ /h)
VentSettings.Cor_FilterGuard2Limit_Y1	R	506		50	Settings, Alarm limits	Alarm limit filter guard 2 Y1 (Pa)
VentSettings.Cor_FilterGuard2Limit_X2	R	507		2000	Settings, Alarm limits	Alarm limit filter guard 2 X2 (m ³ /h)

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentSettings.Cor_FilterGuard2Limit_Y2	R	508		150	Settings, Alarm limits	Alarm limit filter guard 2 Y2 (Pa)
VentSettings.Cor_NeutralZone	R	509	AV, 30509	0	Settings, General	Neutral zone around supply setpoint before heating and cooling
VentSettings.Cor_ExtraUnitSaturationHumidityLimit	R	510		85	Settings, General	The Extra unit can be used in Saturation mode. When the room humidity rises above the Saturation Humidity level limit (setpoint, default = 85 %), the cooler will be controlled by the extra unit instead.
VentSettings.Cor_ExtraUnitSaturationHyst	R	511		1	Settings, General	Extra unit saturation hysteresis level (% of room humidity)
VentSettings.Cor_NightCoolSAFOffset	R	512		0	Settings, night cooling	SAF setpoint offset if pressure/flow controlled SAF when free cool active
VentSettings.Cor_NightCoolEAFOffset	R	513		0	Settings, night cooling	EAF setpoint offset if pressure/flow controlled EAF when free cool active
AlaData.AlaPt112_Delay Value	I	514		120 sec	Settings, Alarm Delays	Alarm delay Run error Motor control 1
AlaData.AlaPt113_Delay Value	I	515		120 sec	Settings, Alarm Delays	Alarm delay Run error Motor control 2

Chapter 6 Input Status Register

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
TimePro.TimeGroupFanFullSpeed	L	1	BV, 20001		Actual/Setpoint	Set if timechannel full speed is active
TimePro.TimeGroupFanHalfSpeed	L	2	BV, 20002		Actual/Setpoint	Set if timechannel reduced speed is active
TimePro.TimeGroupCor_ExtraTimeGroup1	L	3			Actual/Setpoint	Set if timer output 1 is active
TimePro.TimeGroupCor_ExtraTimeGroup2	L	4			Actual/Setpoint	Set if timer output 2 is active
TimePro.TimeGroupCor_ExtraTimeGroup3	L	5			Actual/Setpoint	Set if timer output 3 is active
TimePro.TimeGroupCor_ExtraTimeGroup4	L	6			Actual/Setpoint	Set if timer output 4 is active
TimePro.TimeGroupCor_ExtraTimeGroup5	L	7			Actual/Setpoint	Set if timer output 5 is active
VentActual.Cor_ExtendedRunActive Full	L	8	BV, 20008		Actual/Setpoint	Set if extended operation full speed
VentActual.Cor_ExtendedRunActive Half	L	9	BV, 20009		Actual/Setpoint	Set if extended operation half speed
VentActual.Cor_NeedHeatActive	L	10	BV, 20010		Supply, Extract and Room temperatures	Set if ongoing support heating
VentActual. Cor_NeedCoolActive	L	11	BV, 20011		Supply, Extract and Room temperatures	Set if ongoing support cooling
VentActual.Cor_DemandCO2Active	L	12	BV, 20012		CO ₂	Set if ongoing support CO ₂
VentActual.Cor_DeIcingActive	L	13	BV, 20013		Extract air temp/De-icing exchanger	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, 20018		Digital inputs	Value of DI5
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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, 20037		Alarm Points	Run Error P1-Exchanger
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentActual.Cor_AlaPt(24)	L	56	BV, 20056		Alarm Points	Frost risk
VentActual.Cor_AlaPt(25)	L	57	BV, 20057		Alarm Points	Low frost guard temp
VentActual.Cor_AlaPt(26)	L	58			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, 20077		Alarm Points	Manual P1-Cooler
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			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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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 ₂
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentActual.Cor_AlaPt(77)	L	118	BV, 20118		Alarm Points	Alarm Frequency Converter SAF
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_AlaPt(89)	L	130	BV, 20130		Alarm Points	Manual Y5-Extra Sequence control
VentActual.Cor_AlaPt(90)	L	131	BV, 20131		Alarm Points	Filter guard 2
VentActual.Cor_AlaPt(91)	L	132	BV, 20132		Alarm Points	High temp Extra sensor 1
VentActual.Cor_AlaPt(92)	L	133	BV, 20133		Alarm Points	Low temp Extra sensor 1
VentActual.Cor_AlaPt(93)	L	134	BV, 20134		Alarm Points	High temp Extra sensor 2
VentActual.Cor_AlaPt(94)	L	135	BV, 20135		Alarm Points	Low temp Extra sensor 2
VentActual.Cor_AlaPt(95)	L	136	BV, 20136		Alarm Points	High temp Extra sensor 3
VentActual.Cor_AlaPt(96)	L	137	BV, 20137		Alarm Points	Low temp Extra sensor 3
VentActual.Cor_AlaPt(97)	L	138	BV, 20138		Alarm Points	High temp Extra sensor 4
VentActual.Cor_AlaPt(98)	L	139	BV, 20139		Alarm Points	Low temp Extra sensor 4
VentActual.Cor_AlaPt(99)	L	140	BV, 20140		Alarm Points	High temp Extra sensor 5
VentActual.Cor_AlaPt(100)	L	141	BV, 20141		Alarm Points	Low temp Extra sensor 5
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

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
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
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
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	Sum alarm: Set if any A or B alarm
VentActual.Cor_SumAlarmA	L	185	BV, 20185		Alarm Status	A-alarm: Set if any A-alarm in controller
VentActual.Cor_SumAlarmB	L	186	BV, 20186		Alarm Status	B-alarm: Set if any B or C-alarm in controller

Signal name	EXOL type	Modbus address	BACnet	Default value	Function	Description
VentActual.Cor_AlaPt(101)	L	187	BV, 20187		Alarm Points	Extra alarm 1
VentActual.Cor_AlaPt(102)	L	188	BV, 20188		Alarm Points	Extra alarm 2
VentActual.Cor_AlaPt(103)	L	189	BV, 20189		Alarm Points	Extra alarm 3
VentActual.Cor_AlaPt(104)	L	190	BV, 20190		Alarm Points	Extra alarm 4
VentActual.Cor_AlaPt(105)	L	191	BV, 20191		Alarm Points	Extra alarm 5
VentActual.Cor_AlaPt(106)	L	192	BV, 20192		Alarm Points	Extra alarm 6
VentActual.Cor_AlaPt(107)	L	193	BV, 20193		Alarm Points	Extra alarm 7
VentActual.Cor_AlaPt(108)	L	194	BV, 20194		Alarm Points	Extra alarm 8
VentActual.Cor_AlaPt(109)	L	195	BV, 20195		Alarm Points	Extra alarm 9
VentActual.Cor_AlaPt(110)	L	196	BV, 20196		Alarm Points	Extra alarm 10
VentActual.Cor_AlaPt(111)	L	197			Alarm Points	Extra unit in manual mode
VentActual.Cor_AlaPt(112)	L	198	BV, 20198		Alarm Points	Run error Motor control 1
VentActual.Cor_AlaPt(113)	L	199	BV, 20199		Alarm Points	Run error Motor control 2
VentActual.Cor_AlaPt(114)	L	200			Alarm Points	Motor control 1 external operation
VentActual.Cor_AlaPt(115)	L	201			Alarm Points	Motor control 2 external operation

Chapter 7 Frequency converters and pressure transmitters

Version 3.4 of Corrigo ventilation supports the frequency converters listed below:

- Vacon NXL
- Lenze
- Omron V1000
- Emerson Commander
- LS
- EBM
- Danfoss FC 101
- ABB ACS
- EC Blue

When communicating via frequency converters through Modbus, it is sometimes necessary to change certain settings in the frequency converter.

Two parallel connected frequency converters for supply air and two parallel connected frequency converters for extract air can be run. The supply air fan will have address 1 and the parallel supply air fan address 3. The extract air fan will have address 2 and the parallel extract air fan address 4.

Below is described what settings are necessary in the various models:

Vacon NXL

No settings necessary. Vacon NXL frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
2003	32003, 42003	FB Speed reference (SP)	1000	%
2001	32001, 42001	FB Status word	-	Binary
11	30011, 40011	Acc. Motor output	1	kW
80	30080, 40080	Amount of decimals for Acc. Motor output	1	kWh
2103	32103, 42103	FB Motor speed	100	%
2105	32105, 42105	Motor speed	1	+/- Rpm
2106	32106, 42106	Current	100	A
2107	32107, 42107	Torque	10	+/- % (of nominal)
1501	31501, 41501	Output	1000	kW
2110	32110, 42110	DC voltage	1	V
2111	32111, 42111	Active error	-	Error code
2101	32101, 42101	FB Status word	-	Binär

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

Lenze

No settings necessary.

Lenze frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
49	32049, 42049	Password	-	-
50	32050, 42050	Parameter version	-	-
45	30045, 40045	FB Speed reference (SP)	50	%
2	30002, 40002	FB Status word	-	Binary
512	32512, 42512	Acc. Motor output	1	kW
528	32528, 42528	Motor frequency	10	Hz
509	32509, 42509	Current	1	A
511	32511, 42511	Output	1000	kW
506	31506, 41506	DC voltage	1	V
30	32110, 42110	Active error	-	Error code
27	32027, 42027	FB Status word	-	Binary

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

Omron V1000

Connected via RS485:

- R+ is connected to S+
- R- is connected to S-
- R+/S+ is connected to B on port 1 or 2
- R-/S- is connected to A on port 1 or 2

Parameters

The following parameters must be set from the display of the frequency converter:

- H5-01 (0x425): Slave address, set to = 1 for Supply air fan and = 2 for Exhaust air fan
- H5-07 (0x42B): RTS Control, set to = 1 (enabled) for activation of RS485
- o1-03 (0x502): Frequency reference units, set to = 1 for 0-100%.
- H5-03 (0x427): Parity, set to = 0 (no parity)

Default values should be used for remaining parameters. The following values may not be changed:

- H5-02 (0x426): Communication speed, default = 3 (9600)
- H5-04 (0x428): Stopping method after communication error, default = 3 (no stop)
- H5-11 (0x43C): Communication Enter Function, default=1 (Enter command not necessary)
- H5-12 (0x43D): Run command, default=0 (bit 0=forward start/stop, bit 1= reverse start/stop)
- b1-01 (0x180): Frequency Reference selection 1, default = 2 (via Modbus)
- b2-01 (0x181): Run command selection 1, default = 2 (via Modbus)

Omron frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
3	30003, 40003	FB Speed reference (SP)	10	%
2	30002, 40002	Password	-	-
36	30036, 40036	Motor frequency	100	Hz
63	30063, 40063	Motor speed	1	+/- Rpm
39	30039, 40039	Current	10	A
40	30040, 40040	Output	10	kW
38	30038, 40038	DC voltage	10	V
33	30033, 40033	Status change	-	Binary
34	30034, 40034	Alarm	-	Binary
93	30093, 40093	Acc. Motor output	1	kW

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

Emerson Commander

Connections RS485-RJ45:

- RJ45:2 (orange) is connected to B on port 1 or 2
- RJ45:7 (white/brown) is connected to A on port 1 or 2
- Possible termination resistor is connected between RJ45:1 (white/orange) and RJ45:8 (brown).

If Modbus communication is not initialised after powering up, disconnect the termination resistor and try again.

Terminals

- Connect terminal B4 (Drive enabled) to B2 (+24V)
- Connect terminal B5 (Forward) to B2 (+24V)

Parameters

The following parameters must be set from the display of the frequency converter:

- 44: Slave address, set to = 1 (default) for Supply air fan and = 2 for Exhaust air fan
- 43: Baud rate: 9.6 (default: 19.2)
- Default values should be used for remaining parameters.

Changing parameters

- Deactivate the unit. The display should read "iH 0.0". This is performed by opening terminal B4.
- Set parameter 10 to "L3", i.e. all parameters up to and including 95 can then be altered.
- Set parameter 43 to 9.6 (9600 baud).

Emerson frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
114	30114, 40114	Speed selection	-	-
18	30018, 40018	FB Speed reference (SP)	10	%
1038	31038, 41038	FB Status word	-	-
615	30615, 40615	Control switch	-	Binary
501	30501, 40501	Motor frequency	10	Hz
2	30002, 40002	Max speed	10	Hz
504	30504, 40504	Motor speed	1	+/- Rpm
402	30402, 40402	Current	10	A
503	30503, 40503	Output	10	kW
505	30505, 40505	DC voltage	1	V
1040	31040 41040	Status change	-	Binary

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

LS

LS frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

LS iG5A

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
5	30005,40005	FB Speed reference (SP)	10	%
6	30006,40006	FB Status word	-	Binary
10	30010,40010	Motor frequency	100	Hz
31	30031,40031	Torque	100	%
21	30029,40029	RPM	1	Rpm
9	30009,40009	Motor current	10	A
13	30013,40013	Output	10	kW
12	30012,40012	Voltage	10	V
14	30014,40014	Status change	-	Binary
15	30015,40015	Alarm	-	Binary
29	30029,40029	Alarm 2	-	Binary

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

LS iS7

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
5	30005,40005	FB Speed reference (SP)	10	%
6	30006,40006	FB Status word	-	Binary
10	30010,40010	Motor frequency	100	Hz
791	30791,40791	Torque	100	%
786	30786,40786	RPM	1	Rpm
784	30784,40784	Motor current	10	A
790	30790,40790	Output	10	kW
789	30789,40789	Voltage	10	V
14	30014,40014	Status change	-	Binary
816	30816,40816	Alarm	-	Binary
817	30817,40817	Alarm 2	-	Binary

EBM-PAPST

EBM frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
53250	30250,40250	FB Speed reference (SP)	640	%
53249	30249,40249	FB Control word	-	
53265	30265,40265	Torque		Rpm
53266	30226,40266	FB Status word	-	Binary
53267	30267,40267	Status change		Binary
53268	30268,40268	DC voltage		V
53269	30269,40269	Motor current		A

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

Danfoss FC 101

Danfoss frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scaling	Type
3100	33100,43100	FB Speed reference (SP)	100	%
50000	350000,450000	FB Control word	-	
16130	316130,416130	Motor frequency	10	Hz
16140	316140,416140	Current	100	A
16100	316100,416100	Output	1000	kW
16300	316300,416300	DC voltage	1	V
16030	316030,416030	Status change	-	

The variables presented in the display of the Corrigo are:

Frequency (Hz), Current (A), Output (kW), Accumulated power (kWh).

ECBlue

ECBlue frequency converters are controlled via Modbus. Communication, alarms and certain indications can be read.

The following signals can be read/written from/to the frequency converter:

Address	Modbus register	Name	Scale	Type
3	30003,40003	FB Speed reference (SP)	1	%
5	30005,40005	FB Control word	-	0 = Off 3 = On
15	30015,40015	RPM		Rpm
16	30016,40016	Current	100	A
34	30034,40034	Output	1	kW
21	30021,40021	DC voltage	1	V
13	30013,40013	Alarm	-	Error code

REGIN - THE CHALLENGER IN BUILDING AUTOMATION

AB Regin

Head office

Box 116, S-428 22 Källered,
Sweden

Phone: +46 31 720 02 00

Fax: +46 31 720 02 50

info@regin.se

www.regincontrols.com



THE CHALLENGER IN BUILDING AUTOMATION