

Access V4.X Modbus/BACnet manual

Access software version 4.0-1-04

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Table of contents

Chapter 1 Access 4.0 with Modbus and BACnet communication	4
Introduction	4
Software version	4
Signal types	4
Chapter 2 System integration	6
Modbus	6
BACnet	8
Chapter 3 Coil Status Register (0x)	13
Chapter 4 Input Register (3x)	14
Chapter 5 Holding Register (4x)	35
Chapter 6 Input Status Register (1x)	80
Chapter 7 Appendix: Frequency converters	95

Chapter 1 Access 4.0 with Modbus and BACnet communication

Introduction

This document describes all signals that are accessible via Modbus and BACnet.

Software version

<i>Access version</i>	<i>Available</i>
V4.0-1-04 later	BACnet and Modbus are available
NaviPad 1.1.0.184 later	With Ethernet menu, static IP setting

Signal types

All signals accessible from a SCADA system are described further in this document.

Modbus type

The reference for Modbus type of the signals:

0x = Coil Status Register (Modbus function = 1, 5 and 15)

1x = Input Status Register (Modbus function = 2)

4x = Holding Register (Modbus function = 3, 6 and 16)

3x = 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 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

Chapter 2 System integration

Modbus

Addresses

All addresses starts with 0, and due to that some Master devices starts address with 1 (equal to register) it's in that case necessary to add all addresses in this document with +1.

Baudrate

9600, 14 400, 19 200, 28 800, 38 400, 57 600, 76 800, 115 200 bps

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. Integer, Index and Logic always have scale factor 1.

Unit

Real signal values could have an engineering unit according to Unit-column in tables, where T, Q and P represent temperature-, flow- and pressure unit according selected preference setting in the controller.

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.

Configuration

The communication parameters for the Modbus line is the most important thing to configure first. 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 Access 4.0 controller are

Baud rate:	9600 bps
Word length:	8 bit
Parity:	none
Stop bits:	1 bits
Slave address:	1

Access 4.0 is set to slave address 1 as a default. If more air handling units are added, a new Modbus slave address can be set for each air handling unit using the NaviPad.

Transmission mode

Access 4.0 uses the RTU transmission mode for port 1 and port 2 and . 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.

When using Modbus TCP the controller Ethernet port in combination with TCP port setting 502 should be used.

Writing values

To override the Access 4.0 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.

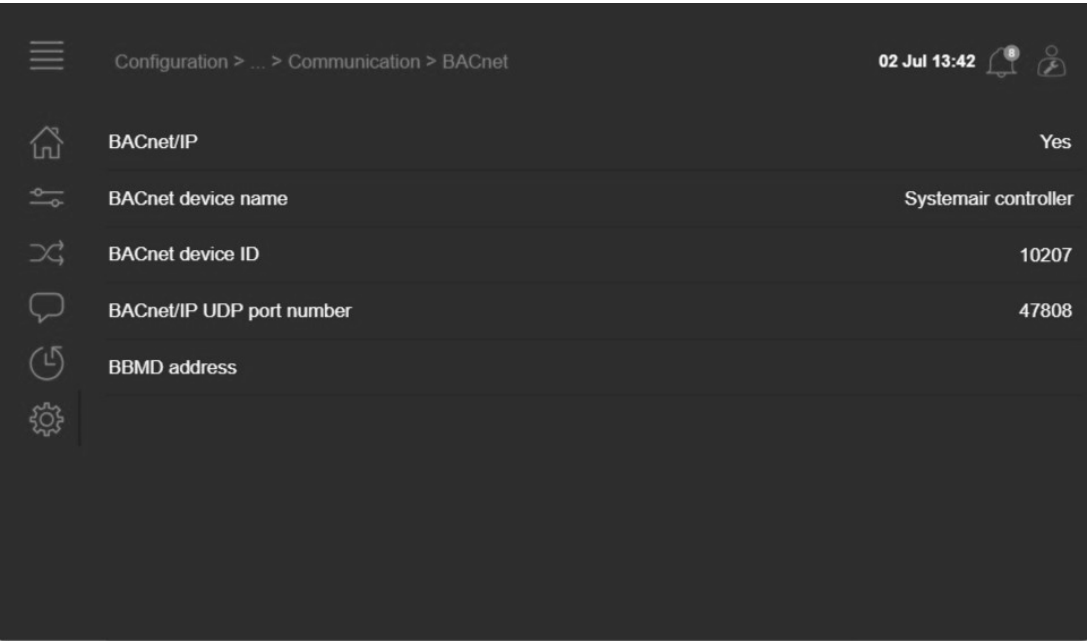
BACnet

Access 4.0-1-04 is capable of communication via the BACnet-ASC (Application Specific Controller) protocol.

In order to connect a Access 4.0 application to a BMS (Building Management System) via BACnet/IP use the TCP/IP port.

BACnet/IP configuration (Activation status of BACnet/IP protocol)

Upon delivery, the BACnet/IP protocol is disabled as a default. To enable BACnet communication, simply change the setting “No” to “Yes”.



BACnet device name

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

BACnet 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.

BBMD address and BACnet/IP port number

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

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 Access 4.0 can be configured to either obtain an IP address from a DHCP server (dynamic) or the address can be set manually (static).

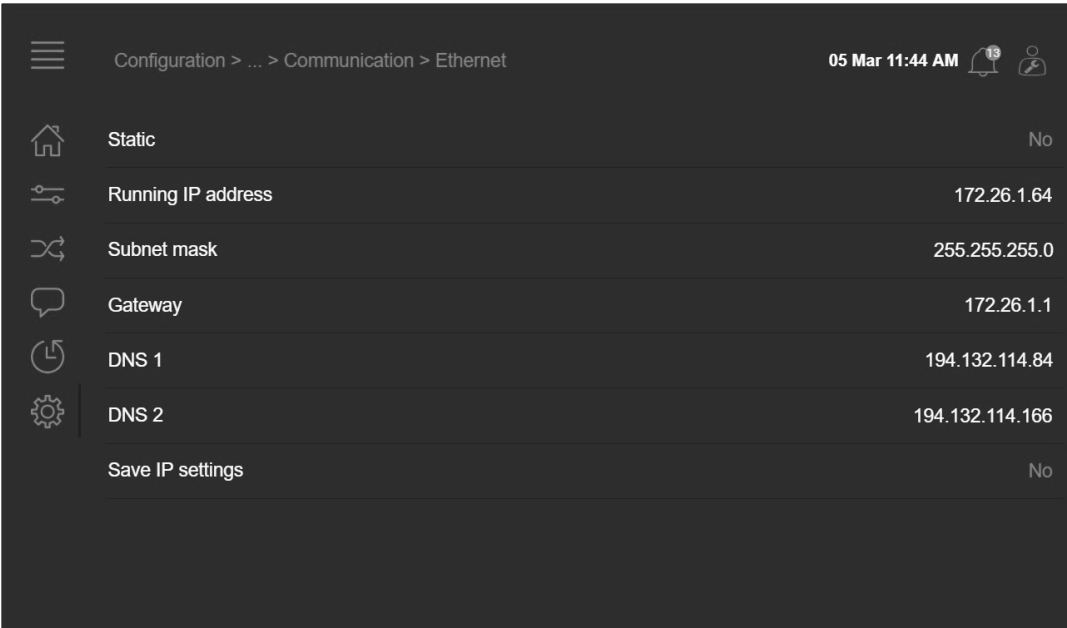
If you wish to set a static IP address for the Access 4.0, simply enter the IP address you wish to use along with the subnet mask, gateway address and DNS server address via the controller webinterface from version 4.0-1-04 [Ethernet setting].

Ethernet setting

Controller addressing and activation of BACnet could be set and activated via controller web menu Configuration / System settings / Communication either with NaviPad or a computer with Chrome browser.

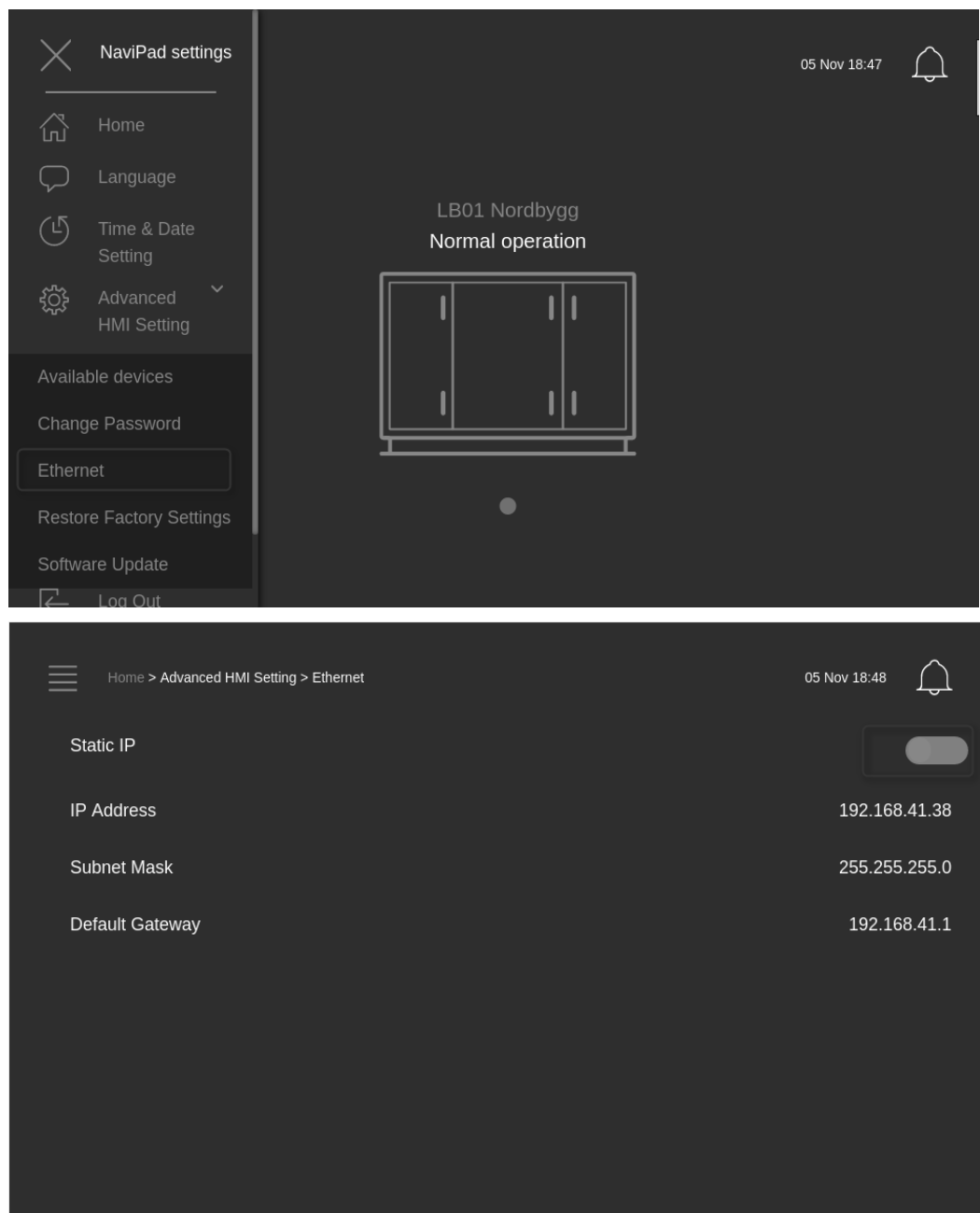
Access controller

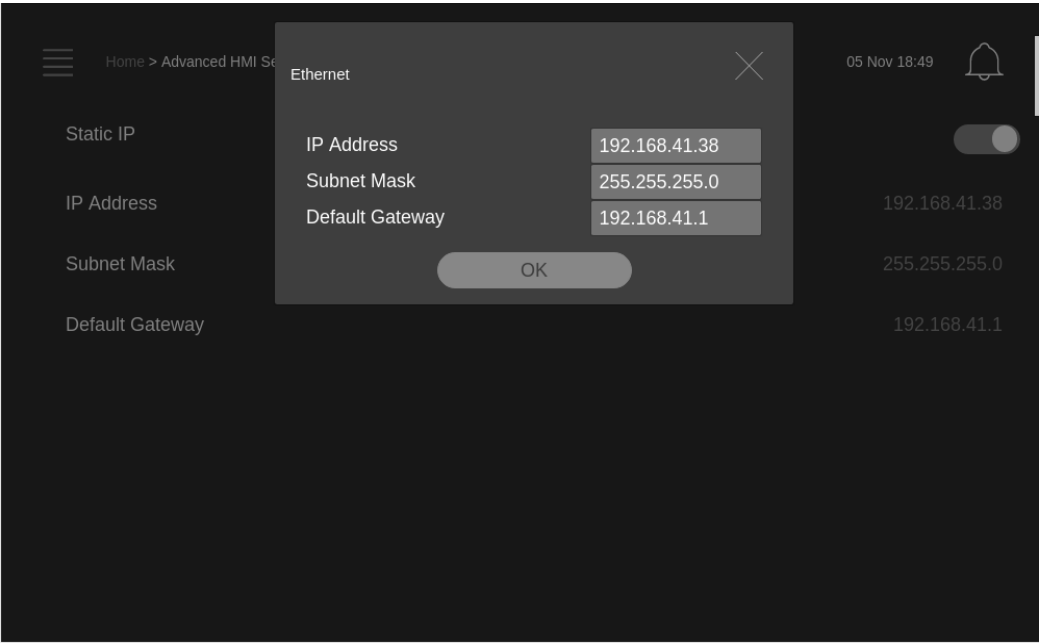
The below picture illustrates the appearance of Ethernet settings for controller in controller web menu from Access Ventilation software version 4.0-1-04:



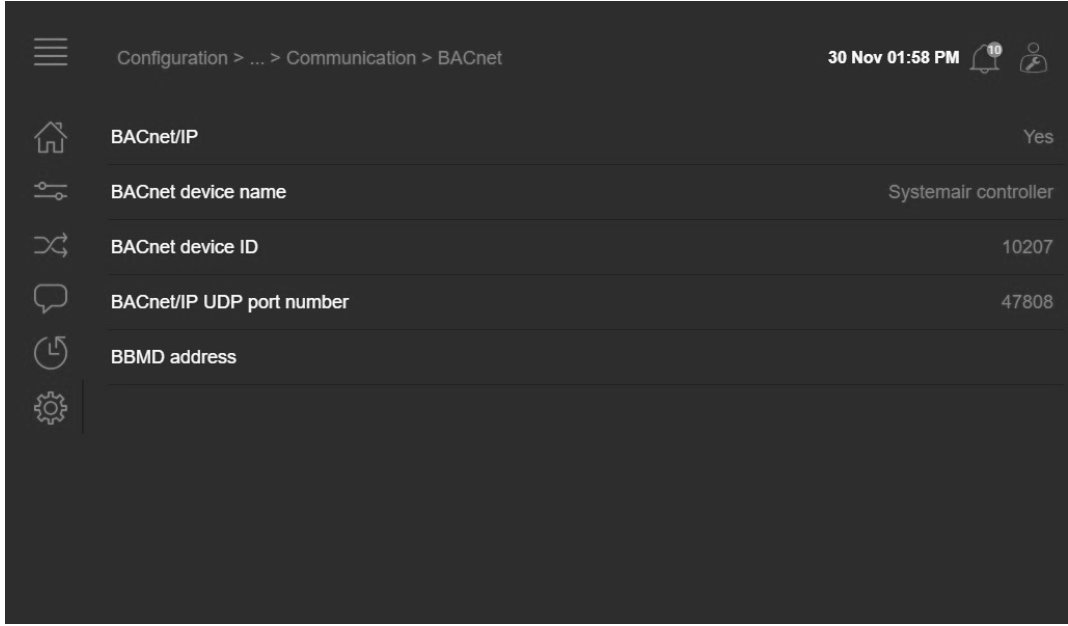
NaviPad

The below picture illustrates the appearance of Ethernet settings for the NaviPad from NaviPad software version 1.1.0.184:





The below picture illustrates the appearance of Bacnet settings for controller in controller web menu:



Chapter 3 Coil Status Register (0x)

Signal name		Modbus address	RW	Bacnet	Function	Description
VentSettings.S_AlaAcknowAll		0000	RW	BV, 1000	Alarm setting	Command to acknowledge all alarms
VentSettings.S_FilterAlarmReset		0001	RW	BV, 1001	Alarm setting	Command to reset the alarm service interval counter

Chapter 4 Input Register (3x)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_MalfunctionSAF1_Status		0000	R		1		Alarm Status	Malfunction supply air fan 1
AlaData.Ala_MalfunctionSAF2_Status		0001	R		1		Alarm Status	Malfunction supply air fan 2
AlaData.Ala_MalfunctionSAF3_Status		0002	R		1		Alarm Status	Malfunction supply air fan 3
AlaData.Ala_MalfunctionSAF4_Status		0003	R		1		Alarm Status	Malfunction supply air fan 4
AlaData.Ala_MalfunctionSAF5_Status		0004	R		1		Alarm Status	Malfunction supply air fan 5
AlaData.Ala_MalfunctionEAF1_Status		0005	R		1		Alarm Status	Malfunction extract air fan 1
AlaData.Ala_MalfunctionEAF2_Status		0006	R		1		Alarm Status	Malfunction extract air fan 2
AlaData.Ala_MalfunctionEAF3_Status		0007	R		1		Alarm Status	Malfunction extract air fan 3
AlaData.Ala_MalfunctionEAF4_Status		0008	R		1		Alarm Status	Malfunction extract air fan 4
AlaData.Ala_MalfunctionEAF5_Status		0009	R		1		Alarm Status	Malfunction extract air fan 5
AlaData.Ala_AlarmSAF1_Status		0010	R		1		Alarm Status	Alarm supply air fan 1
AlaData.Ala_AlarmSAF2_Status		0011	R		1		Alarm Status	Alarm supply air fan 2
AlaData.Ala_AlarmSAF3_Status		0012	R		1		Alarm Status	Alarm supply air fan 3
AlaData.Ala_AlarmSAF4_Status		0013	R		1		Alarm Status	Alarm supply air fan 4
AlaData.Ala_AlarmSAF5_Status		0014	R		1		Alarm Status	Alarm supply air fan 5
AlaData.Ala_AlarmEAF1_Status		0015	R		1		Alarm Status	Alarm extract air fan 1
AlaData.Ala_AlarmEAF2_Status		0016	R		1		Alarm Status	Alarm extract air fan 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_AlarmEAF3_Status		0017	R		1		Alarm Status	Alarm extract air fan 3
AlaData.Ala_AlarmEAF4_Status		0018	R		1		Alarm Status	Alarm extract air fan 4
AlaData.Ala_AlarmEAF5_Status		0019	R		1		Alarm Status	Alarm extract air fan 5
AlaData.Ala_WarningSAF1_Status		0020	R		1		Alarm Status	Warning supply air fan 1
AlaData.Ala_WarningSAF2_Status		0021	R		1		Alarm Status	Warning supply air fan 2
AlaData.Ala_WarningSAF3_Status		0022	R		1		Alarm Status	Warning supply air fan 3
AlaData.Ala_WarningSAF4_Status		0023	R		1		Alarm Status	Warning supply air fan 4
AlaData.Ala_WarningSAF5_Status		0024	R		1		Alarm Status	Warning supply air fan 5
AlaData.Ala_WarningEAF1_Status		0025	R		1		Alarm Status	Warning extract air fan 1
AlaData.Ala_WarningEAF2_Status		0026	R		1		Alarm Status	Warning extract air fan 2
AlaData.Ala_WarningEAF3_Status		0027	R		1		Alarm Status	Warning extract air fan 3
AlaData.Ala_WarningEAF4_Status		0028	R		1		Alarm Status	Warning extract air fan 4
AlaData.Ala_WarningEAF5_Status		0029	R		1		Alarm Status	Warning extract air fan 5
AlaData.Ala_ExternalRunSAF_Status		0030	R		1		Alarm Status	External operation supply air fan
AlaData.Ala_ExternalRunEAF_Status		0031	R		1		Alarm Status	External operation extract air fan
AlaData.Ala_ExternalRunMotor1_Status		0032	R		1		Alarm Status	Extra fan motor 1 running
AlaData.Ala_ExternalRunMotor2_Status		0033	R		1		Alarm Status	Extra fan motor 2 running
AlaData.Ala_MalfunctionPumpHeater_Status		0034	R		1		Alarm Status	Malfunction pump heater
AlaData.Ala_MalfunctionPumpCooler_Status		0035	R		1		Alarm Status	Malfunction pump cooler
AlaData.Ala_MalfunctionPumpExchanger_Status		0036	R		1		Alarm Status	Malfunction pump exchanger
AlaData.Ala_MalfunctionFireDamper_Status		0037	R		1		Alarm Status	Malfunction fire damper
AlaData.Ala_MalfunctionDamper_Status		0038	R		1		Alarm Status	Malfunction damper

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_MalfunctionMotor1_Status		0039	R		1		Alarm Status	Malfunction extra fan motor 1
AlaData.Ala_MalfunctionMotor2_Status		0040	R		1		Alarm Status	Malfunction extra fan motor 2
AlaData.Ala_MalfunctionAdiabaticCooling_Status		0041	R		1		Alarm Status	Malfunction adiabatic cooling
AlaData.Ala_MalfunctionPumpSequence1_Status		0042	R		1		Alarm Status	Malfunction pump sequence-A
AlaData.Ala_MalfunctionPumpSequence2_Status		0043	R		1		Alarm Status	Malfunction pump sequence-B
AlaData.Ala_MalfunctionPumpSequence3_Status		0044	R		1		Alarm Status	Malfunction pump sequence-C
AlaData.Ala_MalfunctionPumpSequence4_Status		0045	R		1		Alarm Status	Malfunction pump sequence-D
AlaData.Ala_MalfunctionPumpSequence5_Status		0046	R		1		Alarm Status	Malfunction pump sequence-E
AlaData.Ala_MalfunctionPumpSequence6_Status		0047	R		1		Alarm Status	Malfunction pump sequence-F
AlaData.Ala_MalfunctionPumpSequence7_Status		0048	R		1		Alarm Status	Malfunction pump sequence-G
AlaData.Ala_MalfunctionPumpSequence8_Status		0049	R		1		Alarm Status	Malfunction pump sequence-H
AlaData.Ala_MalfunctionPumpSequence9_Status		0050	R		1		Alarm Status	Malfunction pump sequence-I
AlaData.Ala_MalfunctionPumpSequence10_Status		0051	R		1		Alarm Status	Malfunction pump sequence-J
AlaData.Ala_FilterGuard1_Status		0052	R		1		Alarm Status	Filter alarm supply air
AlaData.Ala_FilterGuard2_Status		0053	R		1		Alarm Status	Filter alarm extract air
AlaData.Ala_FlowGuard_Status		0054	R		1		Alarm Status	Alarm low air flow
AlaData.Ala_ExternalFrostGuard_Status		0055	R		1		Alarm Status	Freeze protection guard
AlaData.Ala_DeicingGuard_Status		0056	R		1		Alarm Status	Defrosting guard exchanger
AlaData.Ala_FireAlarm_Status		0057	R		1		Alarm Status	Fire alarm
AlaData.Ala_SmokeAlarm_Status		0058	R		1		Alarm Status	Smoke alarm
AlaData.Ala_ExternalSwitch_Status		0059	R		1		Alarm Status	External stop
AlaData.Ala_ExternalAlarm_Status		0060	R		1		Alarm Status	External alarm

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_ServiceStop_Status		0061	R		1		Alarm Status	Service stop
AlaData.Ala_ElectricOverheat_Status		0062	R		1		Alarm Status	Electric heater is overheated
AlaData.Ala_FrostRisk_Status		0063	R		1		Alarm Status	Warning freeze protection
AlaData.Ala_LowEfficiency_Status		0064	R		1		Alarm Status	Low efficiency exchanger
AlaData.Ala_AnalogueDeicing_Status		0065	R		1		Alarm Status	Defrosting alarm
AlaData.Ala_RotationguardExchanger_Status		0066	R		1		Alarm Status	Rotary exchanger alarm
AlaData.Ala_ExtraAlarm1_Status		0067	R		1		Alarm Status	Extra alarm 1
AlaData.Ala_ExtraAlarm2_Status		0068	R		1		Alarm Status	Extra alarm 2
AlaData.Ala_ExtraAlarm3_Status		0069	R		1		Alarm Status	Extra alarm 3
AlaData.Ala_ExtraAlarm4_Status		0070	R		1		Alarm Status	Extra alarm 4
AlaData.Ala_ExtraAlarm5_Status		0071	R		1		Alarm Status	Extra alarm 5
AlaData.Ala_ExtraAlarm6_Status		0072	R		1		Alarm Status	Extra alarm 6
AlaData.Ala_ExtraAlarm7_Status		0073	R		1		Alarm Status	Extra alarm 7
AlaData.Ala_ExtraAlarm8_Status		0074	R		1		Alarm Status	Extra alarm 8
AlaData.Ala_ExtraAlarm9_Status		0075	R		1		Alarm Status	Extra alarm 9
AlaData.Ala_ExtraAlarm10_Status		0076	R		1		Alarm Status	Extra alarm 10
AlaData.Ala_BatteryFail_Status		0077	R		1		Alarm Status	Internal battery error
AlaData.Ala_Service_Status		0078	R		1		Alarm Status	Alarm service interval
AlaData.Ala_RestartBlocked_Status		0079	R		1		Alarm Status	Restart blocked after power on
AlaData.Ala_ControlErrorSupplyTemp_Status		0080	R		1		Alarm Status	Deviation alarm supply air temperature
AlaData.Ala_ControlErrorSAF_Status		0081	R		1		Alarm Status	Deviation alarm supply air fan
AlaData.Ala_ControlErrorEAF_Status		0082	R		1		Alarm Status	Deviation alarm extract air fan

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_ControlErrorHumidity_Status		0083	R		1		Alarm Status	Deviation alarm humidity control
AlaData.Ala_ControlErrorExtraController_Status		0084	R		1		Alarm Status	Deviation alarm extra controller
AlaData.Ala_HighTempSupply_Status		0085	R		1		Alarm Status	High supply air temperature
AlaData.Ala_LowTempSupply_Status		0086	R		1		Alarm Status	Low supply air temperature
AlaData.Ala_MaxLimitTempSupply_Status		0087	R		1		Alarm Status	Supply air temperature max limit
AlaData.Ala_MinLimitTempSupply_Status		0088	R		1		Alarm Status	Supply air temperature min limit
AlaData.Ala_HighTempRoom_Status		0089	R		1		Alarm Status	High room temperature
AlaData.Ala_LowTempRoom_Status		0090	R		1		Alarm Status	Low room temperature
AlaData.Ala_HighTempExtract_Status		0091	R		1		Alarm Status	High extract air temperature
AlaData.Ala_LowTempExtract_Status		0092	R		1		Alarm Status	Low extract air temperature
AlaData.Ala_HighTempOutdoor_Status		0093	R		1		Alarm Status	High outdoor air temperature
AlaData.Ala_LowTempOutdoor_Status		0094	R		1		Alarm Status	Low outdoor air temperature
AlaData.Ala_LowTempFrostGuard1_Status		0095	R		1		Alarm Status	Freeze protection alarm 1
AlaData.Ala_LowTempFrostGuard2_Status		0096	R		1		Alarm Status	Freeze protection alarm 2
AlaData.Ala_LowTempFrostGuard3_Status		0097	R		1		Alarm Status	Freeze protection alarm 3
AlaData.Ala_HighTempExtraSensor1_Status		0098	R		1		Alarm Status	High temperature extra sensor 1
AlaData.Ala_LowTempExtraSensor1_Status		0099	R		1		Alarm Status	Low temperature extra sensor 1
AlaData.Ala_HighTempExtraSensor2_Status		0100	R		1		Alarm Status	High temperature extra sensor 2
AlaData.Ala_LowTempExtraSensor2_Status		0101	R		1		Alarm Status	Low temperature extra sensor 2
AlaData.Ala_HighTempExtraSensor3_Status		0102	R		1		Alarm Status	High temperature extra sensor 3
AlaData.Ala_LowTempExtraSensor3_Status		0103	R		1		Alarm Status	Low temperature extra sensor 3
AlaData.Ala_HighTempExtraSensor4_Status		0104	R		1		Alarm Status	High temperature extra sensor 4

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_LowTempExtraSensor4_Status		0105	R		1		Alarm Status	Low temperature extra sensor 4
AlaData.Ala_HighTempExtraSensor5_Status		0106	R		1		Alarm Status	High temperature extra sensor 5
AlaData.Ala_LowTempExtraSensor5_Status		0107	R		1		Alarm Status	Low temperature extra sensor 5
AlaData.Ala_HighTempSelectedSensor1_Status		0108	R		1		Alarm Status	High temperature selected sensor 1
AlaData.Ala_LowTempSelectedSensor1_Status		0109	R		1		Alarm Status	Low temperature selected sensor 1
AlaData.Ala_HighTempSelectedSensor2_Status		0110	R		1		Alarm Status	High temperature selected sensor 2
AlaData.Ala_LowTempSelectedSensor2_Status		0111	R		1		Alarm Status	Low temperature selected sensor 2
AlaData.Ala_ManualControlUnit_Status		0112	R		1		Alarm Status	Manual operation air handling unit
AlaData.Ala_ManualControlSupply_Status		0113	R		1		Alarm Status	Manual operation supply air
AlaData.Ala_ManualControlSAF_Status		0114	R		1		Alarm Status	Manual operation supply air fan
AlaData.Ala_ManualControlEAF_Status		0115	R		1		Alarm Status	Manual operation extract air fan
AlaData.Ala_ManualControlHeater_Status		0116	R		1		Alarm Status	Manual operation heater
AlaData.Ala_ManualControlExchanger_Status		0117	R		1		Alarm Status	Manual operation exchanger
AlaData.Ala_ManualControlCooler_Status		0118	R		1		Alarm Status	Manual operation cooler
AlaData.Ala_ManualControlDamper_Status		0119	R		1		Alarm Status	Manual operation damper
AlaData.Ala_ManualControlPumpHeater_Status		0120	R		1		Alarm Status	Manual operation pump heater
AlaData.Ala_ManualControlPumpExchanger_Status		0121	R		1		Alarm Status	Manual operation pump exchanger
AlaData.Ala_ManualControlPumpCooler_Status		0122	R		1		Alarm Status	Manual operation pump cooler
AlaData.Ala_ManualControlDamperRecirculation_Status		0123	R		1		Alarm Status	Manual operation damper recirculation
AlaData.Ala_ManualControlDamperOutdoor_Status		0124	R		1		Alarm Status	Manual operation damper outdoor air
AlaData.Ala_ManualControlDamperExhaust_Status		0125	R		1		Alarm Status	Manual operation damper exhaust air
AlaData.Ala_ManualControlDamperFire_Status		0126	R		1		Alarm Status	Manual operation fire damper

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_ManualControlSequence1_Status		0127	R		1		Alarm Status	Manual control sequence-A
AlaData.Ala_ManualControlSequence2_Status		0128	R		1		Alarm Status	Manual control sequence-B
AlaData.Ala_ManualControlSequence3_Status		0129	R		1		Alarm Status	Manual control sequence-C
AlaData.Ala_ManualControlSequence4_Status		0130	R		1		Alarm Status	Manual control sequence-D
AlaData.Ala_ManualControlSequence5_Status		0131	R		1		Alarm Status	Manual control sequence-E
AlaData.Ala_ManualControlSequence6_Status		0132	R		1		Alarm Status	Manual control sequence-F
AlaData.Ala_ManualControlSequence7_Status		0133	R		1		Alarm Status	Manual control sequence-G
AlaData.Ala_ManualControlSequence8_Status		0134	R		1		Alarm Status	Manual control sequence-H
AlaData.Ala_ManualControlSequence9_Status		0135	R		1		Alarm Status	Manual control sequence-I
AlaData.Ala_ManualControlSequence10_Status		0136	R		1		Alarm Status	Manual control sequence-J
AlaData.Ala_ManualControlOutput_Status		0137	R		1		Alarm Status	Output in manual operation
AlaData.Ala_ManualControlInput_Status		0138	R		1		Alarm Status	Input in manual operation
AlaData.Ala_ManualControlExtraController_Status		0139	R		1		Alarm Status	Manual operation extra controller
AlaData.Ala_ManualControlMotor1_Status		0140	R		1		Alarm Status	Manual operation external fan motor 1
AlaData.Ala_ManualControlMotor2_Status		0141	R		1		Alarm Status	Manual operation external fan motor 2
AlaData.Ala_ManualControlPretreatment_Status		0142	R		1		Alarm Status	Manual operation pretreatment
AlaData.Ala_SensorErrorTempOutdoor_Status		0143	R		1		Alarm Status	Sensor error outdoor air temperature
AlaData.Ala_SensorErrorTempIntake_Status		0144	R		1		Alarm Status	Sensor error intake air temperature
AlaData.Ala_SensorErrorTempSupply_Status		0145	R		1		Alarm Status	Sensor error supply air temperature
AlaData.Ala_SensorErrorTempExhaust_Status		0146	R		1		Alarm Status	Sensor error exhaust air temperature
AlaData.Ala_SensorErrorTempExtract_Status		0147	R		1		Alarm Status	Sensor error extract air temperature
AlaData.Ala_SensorErrorTempRoom1_Status		0148	R		1		Alarm Status	Sensor error room temperature 1

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_SensorErrorTempRoom2_Status		0149	R		1		Alarm Status	Sensor error room temperature 2
AlaData.Ala_SensorErrorTempRoom3_Status		0150	R		1		Alarm Status	Sensor error room temperature 3
AlaData.Ala_SensorErrorTempRoom4_Status		0151	R		1		Alarm Status	Sensor error room temperature 4
AlaData.Ala_SensorErrorPressureSAF_Status		0152	R		1		Alarm Status	Sensor error pressure supply air
AlaData.Ala_SensorErrorPressureEAF_Status		0153	R		1		Alarm Status	Sensor error pressure extract air
AlaData.Ala_SensorErrorFlowSAF_Status		0154	R		1		Alarm Status	Sensor error flow supply air
AlaData.Ala_SensorErrorFlowEAF_Status		0155	R		1		Alarm Status	Sensor error flow extract air
AlaData.Ala_SensorPressureExchangerSAF_Status		0156	R		1		Alarm Status	Sensor error flow exchanger supply air
AlaData.Ala_SensorPressureExchangerEAF_Status		0157	R		1		Alarm Status	Sensor error pressure exchanger extract air
AlaData.Ala_SensorErrorTempDeicing_Status		0158	R		1		Alarm Status	Sensor error defrosting temperature
AlaData.Ala_SensorErrorTempFrost1_Status		0159	R		1		Alarm Status	Sensor error freeze protection temperature 1
AlaData.Ala_SensorErrorTempFrost2_Status		0160	R		1		Alarm Status	Sensor error freeze protection temperature 2
AlaData.Ala_SensorErrorTempFrost3_Status		0161	R		1		Alarm Status	Sensor error freeze protection temperature 3
AlaData.Ala_SensorErrorCO2_Status		0162	R		1		Alarm Status	Sensor error CO2 room/extract air
AlaData.Ala_SensorErrorHumidityRoom_Status		0163	R		1		Alarm Status	Sensor error humidity room/extract air
AlaData.Ala_SensorErrorHumidityDuct_Status		0164	R		1		Alarm Status	Sensor error humidity supply air
AlaData.Ala_SensorErrorTempExtraController_Status		0165	R		1		Alarm Status	Sensor error extra controller
AlaData.Ala_SensorErrorExtCtrlSAF_Status		0166	R		1		Alarm Status	Signal error external control supply air fan
AlaData.Ala_SensorErrorExtCtrlEAF_Status		0167	R		1		Alarm Status	Signal error external control extract air fan
AlaData.Ala_SensorErrorHumidityOutdoor_Status		0168	R		1		Alarm Status	Sensor error humidity outdoor
AlaData.Ala_SensorErrorTempExtraSensor1_Status		0169	R		1		Alarm Status	Sensor error extra sensor 1
AlaData.Ala_SensorErrorTempExtraSensor2_Status		0170	R		1		Alarm Status	Sensor error extra sensor 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_SensorErrorTempExtraSensor3_Status		0171	R		1		Alarm Status	Sensor error extra sensor 3
AlaData.Ala_SensorErrorTempExtraSensor4_Status		0172	R		1		Alarm Status	Sensor error extra sensor 4
AlaData.Ala_SensorErrorTempExtraSensor5_Status		0173	R		1		Alarm Status	Sensor error extra sensor 5
AlaData.Ala_SensorErrorExtSupplySetp_Status		0174	R		1		Alarm Status	Sensor error external temperature setpoint
AlaData.Ala_SensorErrorExtFlowSetpoint_Status		0175	R		1		Alarm Status	Signal error external flow setpoint
AlaData.Ala_SensorErrorFilterGuard1_Status		0176	R		1		Alarm Status	Sensor error pressure filter supply air
AlaData.Ala_SensorErrorFilterGuard2_Status		0177	R		1		Alarm Status	Sensor error pressure filter extract air
AlaData.Ala_SensorErrorTempEfficiency_Status		0178	R		1		Alarm Status	Sensor error efficiency temp
AlaData.Ala_CommErrorDevice_Status		0179	R		1		Alarm Status	Fault communication device
AlaData.Ala_MalfunctionExtraController_Status		0180	R		1		Alarm Status	Malfunction Extra Controller
AlaData.Ala_InternalError_Status		0181	R		1		Alarm Status	Internal error
AlaData.Ala_SmokeDetectorService_Status		0182	R		1		Alarm Status	Smoke detector service
AlaData.Ala_SmokeDetectorError_Status		0183	R		1		Alarm Status	Smoke detector connection error
VentActual.A_AnalogInput(1)		0250	R	AV, 40250	10		Analogue input	Actual value AI1
VentActual.A_AnalogInput(2)		0251	R	AV, 40251	10		Analogue input	Actual value AI2
VentActual.A_AnalogInput(3)		0252	R	AV, 40252	10		Analogue input	Actual value AI3
VentActual.A_AnalogInput(4)		0253	R	AV, 40253	10		Analogue input	Actual value AI4
VentActual.A_AnalogInput(5)		0254	R	AV, 40254	10		Universal input	Actual value analog UI1
VentActual.A_AnalogInput(6)		0255	R	AV, 40255	10		Universal input	Actual value analog UI2
VentActual.A_AnalogInput(7)		0256	R	AV, 40256	10		Universal input	Actual value analog UI3
VentActual.A_AnalogInput(8)		0257	R	AV, 40257	10		Universal input	Actual value analog UI4
VentActual.A_AnalogInputExp1(1)		0258	R	AV, 40258	10		Analogue input	Actual value exp.unit 1 AI1

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_AnalogInputExp1(2)		0259	R	AV, 40259	10		Analogue input	Actual value exp.unit 1 AI2
VentActual.A_AnalogInputExp1(3)		0260	R	AV, 40260	10		Analogue input	Actual value exp.unit 1 AI3
VentActual.A_AnalogInputExp1(4)		0261	R	AV, 40261	10		Analogue input	Actual value exp.unit 1 AI4
VentActual.A_AnalogInputExp1(5)		0262	R	AV, 40262	10		Universal input	Actual value exp.unit 1 analog UI1
VentActual.A_AnalogInputExp1(6)		0263	R	AV, 40263	10		Universal input	Actual value exp.unit 1 analog UI2
VentActual.A_AnalogInputExp1(7)		0264	R	AV, 40264	10		Universal input	Actual value exp.unit 1 analog UI3
VentActual.A_AnalogInputExp1(8)		0265	R	AV, 40265	10		Universal input	Actual value exp.unit 1 analog UI4
VentActual.A_AnalogInputExp2(1)		0266	R	AV, 40266	10		Analogue input	Actual value exp.unit 2 AI1
VentActual.A_AnalogInputExp2(2)		0267	R	AV, 40267	10		Analogue input	Actual value exp.unit 2 AI2
VentActual.A_AnalogInputExp2(3)		0268	R	AV, 40268	10		Analogue input	Actual value exp.unit 2 AI3
VentActual.A_AnalogInputExp2(4)		0269	R	AV, 40269	10		Analogue input	Actual value exp.unit 2 AI4
VentActual.A_AnalogInputExp2(5)		0270	R	AV, 40270	10		Universal input	Actual value exp.unit 2 analog UI1
VentActual.A_AnalogInputExp2(6)		0271	R	AV, 40271	10		Universal input	Actual value exp.unit 2 analog UI2
VentActual.A_AnalogInputExp2(7)		0272	R	AV, 40272	10		Universal input	Actual value exp.unit 2 analog UI3
VentActual.A_AnalogInputExp2(8)		0273	R	AV, 40273	10		Universal input	Actual value exp.unit 2 analog UI4
VentActual.A_AI_OutDoorTemp		0290	R	AV, 40290	10	T	AI function	Actual value outdoor temperature
VentActual.A_AI_IntakeAirTemp		0291	R	AV, 40291	10	T	AI function	Actual value intake air temperature
VentActual.A_AI_SupplyAirTemp		0292	R	AV, 40292	10	T	AI function	Actual value supply air temperature
VentActual.A_AI_ExhaustAirTemp		0293	R	AV, 40293	10	T	AI function	Actual value exhaust air temperature
VentActual.A_AI_ExtractAirTemp		0294	R	AV, 40294	10	T	AI function	Actual value extract air temperature
VentActual.A_AI_RoomTemp1(0)		0295	R	AV, 40295	10		AI function	Actual value room temperature 1
VentActual.A_AI_RoomTemp2		0296	R	AV, 40296	10		AI function	Actual value room temperature 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_AI_RoomTemp3		0297	R	AV, 40297	10		AI function	Actual value room temperature 3
VentActual.A_AI_RoomTemp4		0298	R	AV, 40298	10		AI function	Actual value room temperature 4
VentActual.A_AI_SAFPressure		0299	R	AV, 40299	10	P	AI function	Actual value supply air pressure
VentActual.A_AI_EAFPressure		0300	R	AV, 40300	10	P	AI function	Actual value extract air pressure
VentActual.A_AI_SAFFlow		0301	R	AV, 40301	10	Q	AI function	Actual value supply air flow
VentActual.A_AI_EAFFlow		0302	R	AV, 40302	10	Q	AI function	Actual value extract air flow
VentActual.A_AI_ExchPressureSAF		0303	R	AV, 40303	10		AI function	Actual value exchanger supply flow
VentActual.A_AI_ExchPressureEAF		0304	R	AV, 40304	10		AI function	Actual value exchanger extract pressure
VentActual.A_AI_DeIcingTemp		0305	R	AV, 40305	10		AI function	Actual value defrosting temperature
VentActual.A_AI_FrostprotTemp1(0)		0306	R	AV, 40306	10	T	AI function	Actual value freeze protection temperature 1
VentActual.A_AI_FrostprotTemp2		0307	R	AV, 40307	10	T	AI function	Actual value freeze protection temperature 2
VentActual.A_AI_FrostprotTemp3		0308	R	AV, 40308	10	T	AI function	Actual value freeze protection temperature 3
VentActual.A_AI_CO2		0309	R	AV, 40309	10	ppm	AI function	Actual value CO ₂ room/extract air
VentActual.A_AI_HumidityRoom		0310	R	AV, 40310	10	%	AI function	Actual value humidity room/extract air
VentActual.A_AI_HumidityDuct		0311	R	AV, 40311	10	%	AI function	Actual value humidity duct
VentActual.A_AI_HumidityOutDoor		0312	R	AV, 40312	10	%	AI function	Actual value humidity outdoor
VentActual.A_AI_ExtraControllerTemp		0313	R	AV, 40313	10		AI function	Actual value extra controller temperature
VentActual.A_AI_ExtSAFControl		0314	R	AV, 40314	10		AI function	Actual value external control supply air fan
VentActual.A_AI_ExtEAFControl		0315	R	AV, 40315	10		AI function	Actual value external control extract air fan
VentActual.A_AI_ExtraSensor1(0)		0316	R	AV, 40316	10		AI function	Actual value extra sensor 1
VentActual.A_AI_ExtraSensor2		0317	R	AV, 40317	10		AI function	Actual value extra sensor 2
VentActual.A_AI_ExtraSensor3		0318	R	AV, 40318	10		AI function	Actual value extra sensor 3

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_AI_ExtraSensor4		0319	R	AV, 40319	10		AI function	Actual value extra sensor 4
VentActual.A_AI_ExtraSensor5		0320	R	AV, 40320	10		AI function	Actual value extra sensor 5
VentActual.A_AI_ExternalSupplySetP		0321	R	AV, 40321	10		AI function	Actual value external temperature setpoint
VentActual.A_AI_ExternalFlowSetP		0322	R	AV, 40322	10		AI function	Actual value external supply air flow setpoint
VentActual.A_AI_FilterGuard1(0)		0323	R	AV, 40323	10		AI function	Actual value supply air filter pressure
VentActual.A_AI_FilterGuard2		0324	R	AV, 40324	10		AI function	Actual value extract air filter pressure
VentActual.A_AI_EfficiencyTemp		0325	R	AV, 40325	10		AI function	Actual value efficiency temperature
VentActual.A_RoomTemp		0336	R	AV, 40336	10	T	AI function	Calculated average temperature of room sensor 1 to 4
VentActual.A_SAFAirFlow		0337	R	AV, 40337	10	m³/h	AI function	Calculated flow supply air
VentActual.A_EAFAirFlow		0338	R	AV, 40338	10	m³/h	AI function	Calculated flow extract air
VentActual.A_ExchAirFlowSAF		0339	R	AV, 40339	10	P/Q	AI function	Calculated flow exchanger supply air
VentActual.A_ExchAirFlowEAF		0340	R	AV, 40340	10	P/Q	AI function	Calculated flow exchanger extract air
VentActual.A_AO_SequenceY1		0341	R	AV, 40341	10	%	AO function	Actual value SEQ-A
VentActual.A_AO_SequenceY2		0342	R	AV, 40342	10	%	AO function	Actual value SEQ-B
VentActual.A_AO_SequenceY3		0343	R	AV, 40343	10	%	AO function	Actual value SEQ-C
VentActual.A_AO_SequenceY4		0344	R	AV, 40344	10	%	AO function	Actual value SEQ-D
VentActual.A_AO_SequenceY5		0345	R	AV, 40345	10	%	AO function	Actual value SEQ-E
VentActual.A_AO_SequenceY6		0346	R	AV, 40346	10	%	AO function	Actual value SEQ-F
VentActual.A_AO_SequenceY7		0347	R	AV, 40347	10	%	AO function	Actual value SEQ-G
VentActual.A_AO_SequenceY8		0348	R	AV, 40348	10	%	AO function	Actual value SEG-H
VentActual.A_AO_SequenceY9		0349	R	AV, 40349	10	%	AO function	Actual value SEQ-I

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_AO_SequenceY10		0350	R	AV, 40350	10	%	AO function	Actual value SEQ-J
VentActual.A_AO_ChangeOver1		0351	R	AV, 40351	10	%	AO function	Actual value changeover 1
VentActual.A_AO_ChangeOver2		0352	R	AV, 40352	10	%	AO function	Actual value changeover 2
VentActual.A_AO_SAF(0)		0353	R	AV, 40353	10	%	AO function	Actual value supply air fan
VentActual.A_AO_EAF		0354	R	AV, 40354	10	%	AO function	Actual value extract air fan
VentActual.A_AO_Humidity		0355	R	AV, 40355	10	%	AO function	Actual value humidity
VentActual.A_AO_StepController1		0356	R	AV, 40356	10	%	AO function	Actual value step controller 1
VentActual.A_AO_StepController2		0357	R	AV, 40357	10	%	AO function	Actual value step controller 2
VentActual.A_AO_ExtraController		0358	R	AV, 40358	10	%	AO function	Actual value extra controller
VentActual.A_AO_AISignalOutput		0359	R	AV, 40359	10	%	AO function	Actual value output from analog input signal
VentActual.A_AnalogOutput(1)		0370	R	AV, 40370	10	V	Analogue output	Raw value AO1
VentActual.A_AnalogOutput(2)		0371	R	AV, 40371	10	V	Analogue output	Raw value AO2
VentActual.A_AnalogOutput(3)		0372	R	AV, 40372	10	V	Analogue output	Raw value AO3
VentActual.A_AnalogOutput(4)		0373	R	AV, 40373	10	V	Analogue output	Raw value AO4
VentActual.A_AnalogOutput(5)		0374	R	AV, 40374	10	V	Analogue output	Raw value AO5
VentActual.A_Exp1AnalogOutput(1)		0375	R	AV, 40375	10	V	Analogue output	Raw value exp.unit 1 AO1
VentActual.A_Exp1AnalogOutput(2)		0376	R	AV, 40376	10	V	Analogue output	Raw value exp.unit 1 AO2
VentActual.A_Exp1AnalogOutput(3)		0377	R	AV, 40377	10	V	Analogue output	Raw value exp.unit 1 AO3
VentActual.A_Exp1AnalogOutput(4)		0378	R	AV, 40378	10	V	Analogue output	Raw value exp.unit 1 AO4
VentActual.A_Exp1AnalogOutput(5)		0379	R	AV, 40379	10	V	Analogue output	Raw value exp.unit 1 AO5
VentActual.A_Exp2AnalogOutput(1)		0380	R	AV, 40380	10	V	Analogue output	Raw value exp.unit 2 AO1
VentActual.A_Exp2AnalogOutput(2)		0381	R	AV, 40381	10	V	Analogue output	Raw value exp.unit 2 AO2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_Exp2AnalogOutput(3)		0382	R	AV, 40382	10	V	Analogue output	Raw value exp.unit 2 AO3
VentActual.A_Exp2AnalogOutput(4)		0383	R	AV, 40383	10	V	Analogue output	Raw value exp.unit 2 AO4
VentActual.A_Exp2AnalogOutput(5)		0384	R	AV, 40384	10	V	Analogue output	Raw value exp.unit 2 AO5
VentActual.A_Efficiency		0395	R	AV, 40395	10	%	AI function	Calculated temperature efficiency exchanger
VentActual.A_UnitMode		0396	R	MSV, 40396	1	-	Unit information	Actual unit mode <u>Modbus</u> 0=Stop 1=Starting up 2=Low speed 3=Normal speed 4=High speed 5=Support heating 6=Support cooling 7=CO ₂ 8=Free cooling 9=Cool down 10=Fire 11=Smoke 12=Recirculation 13=Defrosting <u>Bacnet</u> +1 offset for corresponding Modbus
VentActual.A_UnitModeControl		0397	R	MSV, 40397	1		Unit information	Indicates what is triggering the current run mode <u>Modbus</u> 1=Time schedule 2=Manual run 3=Digital Input 4=Alarm 5=External control 6=Service stop

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
								<u>Bacnet</u> +1 offset for corresponding Modbus
VentActual.A_ActiveSeqType		0398	R	MSV, 40398	1	-	Unit information	Active seq. type <u>Modbus</u> 0 =Heating 1 =Cooling <u>Bacnet</u> +1 offset for corresponding Modbus
VentActual.A_ActiveHeatSeqStep		0399	R	AV, 40399	1	-	Unit information	Active heat sequence
VentActual.A_ActiveCoolSeqStep		0400	R	AV, 40400	1	-	Unit information	Active cool sequence
VentActual.A_ActiveYSeq		0401	R	AV, 40401	1	-	Unit information	Active sequence (SEQ-A to SEQ-J) 1=SEQ-A ... 10=SEQ-J
VentActual.A_SAFRunTime		0402	R	AV, 40402	10	-	Unit information	Total run time supply air fan (hours)
VentActual.A_EAFRunTime		0403	R	AV, 40403	10	-	Unit information	Total run time extract air fan (hours)
VentActual.A_DeIcingTime		0404	R	AV, 40404	1		Unit information	Run time in defrosting mode (minutes)
VentActual.A_NeedRunTime		0405	R	AV, 40405	1		Unit information	Run time in support control mode (minutes)
VentActual.A_CO2RunTime		0406	R	AV, 40406	1		Unit information	Run time in CO ₂ mode (minutes)
VentActual.A_Y1Sequence		0408	R	AV, 40408	10	%	PID output	Control signal sequence-A
VentActual.A_Y2Sequence		0409	R	AV, 40409	10	%	PID output	Control signal sequence-B
VentActual.A_Y3Sequence		0410	R	AV, 40410	10	%	PID output	Control signal sequence-C
VentActual.A_Y4Sequence		0411	R	AV, 40411	10	%	PID output	Control signal sequence-D
VentActual.A_Y5Sequence		0412	R	AV, 40412	10	%	PID output	Control signal sequence-E
VentActual.A_Y6Sequence		0413	R	AV, 40413	10	%	PID output	Control signal sequence-F

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_Y7Sequence		0414	R	AV, 40414	10	%	PID output	Control signal sequence-G
VentActual.A_Y8Sequence		0415	R	AV, 40415	10	%	PID output	Control signal sequence-H
VentActual.A_Y9Sequence		0416	R	AV, 40416	10	%	PID output	Control signal sequence-I
VentActual.A_Y10Sequence		0417	R	AV, 40417	10	%	PID output	Control signal sequence-J
VentActual.A_SAF		0418	R	AV, 40418	10	%	PID output	Control signal supply air fan
VentActual.A_EAF		0419	R	AV, 40419	10	%	PID output	Control signal extract air fan
VentActual.A_SAFSpeed		0420	R	MSV, 40420	1	-	Unit information	Actual level supply air fan <u>Modbus</u> 0=Off 1=Low speed 2=Normal speed 3=High speed 4=Manual setpoint 5=Manual output <u>Bacnet</u> +1 offset for corresponding Modbus
VentActual.A_EAFSpeed		0421	R	MSV, 40421	1	-	Unit information	Actual level extract air fan (See signal list for A_SAFSpeed)
VentActual.A_CompLowSpeedSAF(0)		0422	R	AV, 40422	10	P	Unit information	Pressure/flow compensation low speed supply air fan
VentActual.A_CompNormalSpeedSAF		0423	R	AV, 40423	10	P	Unit information	Pressure/flow compensation normal speed supply air fan
VentActual.A_CompHighSpeedSAF		0424	R	AV, 40424	10	P	Unit information	Pressure/flow compensation high speed supply air fan
VentActual.A_CompLowSpeedEAF(0)		0425	R	AV, 40425	10	P	Unit information	Pressure/flow compensation low speed extract air fan
VentActual.A_CompNormalSpeedEAF		0426	R	AV, 40426	10	P	Unit information	Pressure/flow compensation normal speed extract air fan

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentActual.A_CompHighSpeedEAF		0427	R	AV, 40427	10	P	Unit information	Pressure/flow compensation high speed extract air fan
VentActual.A_AlarmACount(0)		0428	R	AV, 40428	1	-	Unit information	Number of unacknowledged A-alarms
VentActual.A_AlarmBCount		0429	R	AV, 40429	1	-	Unit information	Number of unacknowledged B-alarms
VentActual.A_AlarmCCount		0430	R	AV, 40430	1	-	Unit information	Number of unacknowledged C-alarms
VentActual.A_SumAlarm1Count		0431	R	AV, 40431	1		Unit information	Number of SumAlarm1 alarms
VentActual.A_SumAlarm2Count		0432	R	AV, 40432	1		Unit information	Number of SumAlarm2 alarms
VentActual.A_SupplyPID_SetP		0433	R	AV, 40433	10	T	PID Setpoint	Actual setpoint supply air temperature
VentActual.A_SAFPID_SetP		0434	R	AV, 40434	10	P/Q	PID Setpoint	Actual setpoint supply air fan
VentActual.A_EAFPID_SetP		0435	R	AV, 40435	10	P/Q	PID Setpoint	Actual setpoint extract air fan
VentActual.A_FrostPID1_Output(0)		0436	R	AV, 40436	10	%	PID output	Control signal frost protection 1
VentActual.A_FrostPID2_Output		0437	R	AV, 40437	10	%	PID output	Control signal frost protection 2
VentActual.A_FrostPID3_Output		0438	R	AV, 40438	10	%	PID output	Control signal frost protection 3
VentActual.A_CO2PID_Output		0439	R	AV, 40439	10	%	PID output	Control signal CO ₂
VentActual.A_DeIcePID_Output		0440	R	AV, 40440	10	%	PID output	Control signal defrosting
VentActual.A_HumidityPID_Output		0441	R	AV, 40441	10	%	PID output	Control signal humidity
VentActual.A_SFP		0443	R	AV, 40443	10	-	Unit information	Actual SFP
VentActual.A_SFPDay		0444	R	AV, 40444	10	-	Unit information	Average SFP (day)
VentActual.A_SFPMonth		0445	R	AV, 40445	10	-	Unit information	Average SFP (30 days)
VentComActual.CA_MotorSpeedHzSAF(1)		0446	R	AV, 40446	10	Hz	Fan data	Motor speed frequency supply air fan 1
VentComActual.CA_MotorSpeedHzSAF(2)		0447	R	AV, 40447	10	Hz	Fan data	Motor speed frequency supply air fan 2
VentComActual.CA_MotorSpeedHzSAF(3)		0448	R	AV, 40448	10	Hz	Fan data	Motor speed frequency supply air fan 3

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentComActual.CA_MotorSpeedHzSAF(4)		0449	R	AV, 40449	10	Hz	Fan data	Motor speed frequency supply air fan 4
VentComActual.CA_MotorSpeedHzSAF(5)		0450	R	AV, 40450	10	Hz	Fan data	Motor speed frequency supply air fan 5
VentComActual.CA_MotorSpeedHzEAF(1)		0451	R	AV, 40451	10	Hz	Fan data	Motor speed frequency extract air fan 1
VentComActual.CA_MotorSpeedHzEAF(2)		0452	R	AV, 40452	10	Hz	Fan data	Motor speed frequency extract air fan 2
VentComActual.CA_MotorSpeedHzEAF(3)		0453	R	AV, 40453	10	Hz	Fan data	Motor speed frequency extract air fan 3
VentComActual.CA_MotorSpeedHzEAF(4)		0454	R	AV, 40454	10	Hz	Fan data	Motor speed frequency extract air fan 4
VentComActual.CA_MotorSpeedHzEAF(5)		0455	R	AV, 40455	10	Hz	Fan data	Motor speed frequency extract air fan 5
VentComActual.CA_MotorSpeedRpmSAF(1)		0456	R	AV, 40456	10	rpm	Fan data	Motor speed rpm supply air fan 1
VentComActual.CA_MotorSpeedRpmSAF(2)		0457	R	AV, 40457	10	rpm	Fan data	Motor speed rpm supply air fan 2
VentComActual.CA_MotorSpeedRpmSAF(3)		0458	R	AV, 40458	10	rpm	Fan data	Motor speed rpm supply air fan 3
VentComActual.CA_MotorSpeedRpmSAF(4)		0459	R	AV, 40459	10	rpm	Fan data	Motor speed rpm supply air fan 4
VentComActual.CA_MotorSpeedRpmSAF(5)		0460	R	AV, 40460	10	rpm	Fan data	Motor speed rpm supply air fan 5
VentComActual.CA_MotorSpeedRpmEAF(1)		0461	R	AV, 40461	10	rpm	Fan data	Motor speed rpm extract air fan 1
VentComActual.CA_MotorSpeedRpmEAF(2)		0462	R	AV, 40462	10	rpm	Fan data	Motor speed rpm extract air fan 2
VentComActual.CA_MotorSpeedRpmEAF(3)		0463	R	AV, 40463	10	rpm	Fan data	Motor speed rpm extract air fan 3
VentComActual.CA_MotorSpeedRpmEAF(4)		0464	R	AV, 40464	10	rpm	Fan data	Motor speed rpm extract air fan 4
VentComActual.CA_MotorSpeedRpmEAF(5)		0465	R	AV, 40465	10	rpm	Fan data	Motor speed rpm extract air fan 5
VentComActual.CA_MotorCurrentSAF(1)		0466	R	AV, 40466	10	A	Fan data	Motor current supply air fan 1
VentComActual.CA_MotorCurrentSAF(2)		0467	R	AV, 40467	10	A	Fan data	Motor current supply air fan 2
VentComActual.CA_MotorCurrentSAF(3)		0468	R	AV, 40468	10	A	Fan data	Motor current supply air fan 3
VentComActual.CA_MotorCurrentSAF(4)		0469	R	AV, 40469	10	A	Fan data	Motor current supply air fan 4
VentComActual.CA_MotorCurrentSAF(5)		0470	R	AV, 40470	10	A	Fan data	Motor current supply air fan 5

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentComActual.CA_MotorCurrentEAF(1)		0471	R	AV, 40471	10	A	Fan data	Motor current extract air fan 1
VentComActual.CA_MotorCurrentEAF(2)		0472	R	AV, 40472	10	A	Fan data	Motor current extract air fan 2
VentComActual.CA_MotorCurrentEAF(3)		0473	R	AV, 40473	10	A	Fan data	Motor current extract air fan 3
VentComActual.CA_MotorCurrentEAF(4)		0474	R	AV, 40474	10	A	Fan data	Motor current extract air fan 4
VentComActual.CA_MotorCurrentEAF(5)		0475	R	AV, 40475	10	A	Fan data	Motor current extract air fan 5
VentComActual.CA_MotorPowerSAF(1)		0476	R	AV, 40476	10		Fan data	Motor power supply air fan 1
VentComActual.CA_MotorPowerSAF(2)		0477	R	AV, 40477	10		Fan data	Motor power supply air fan 2
VentComActual.CA_MotorPowerSAF(3)		0478	R	AV, 40478	10		Fan data	Motor power supply air fan 3
VentComActual.CA_MotorPowerSAF(4)		0479	R	AV, 40479	10		Fan data	Motor power supply air fan 4
VentComActual.CA_MotorPowerSAF(5)		0480	R	AV, 40480	10		Fan data	Motor power supply air fan 5
VentComActual.CA_MotorPowerEAF(1)		0481	R	AV, 40481	10		Fan data	Motor power extract air fan 1
VentComActual.CA_MotorPowerEAF(2)		0482	R	AV, 40482	10		Fan data	Motor power extract air fan 2
VentComActual.CA_MotorPowerEAF(3)		0483	R	AV, 40483	10		Fan data	Motor power extract air fan 3
VentComActual.CA_MotorPowerEAF(4)		0484	R	AV, 40484	10		Fan data	Motor power extract air fan 4
VentComActual.CA_MotorPowerEAF(5)		0485	R	AV, 40485	10		Fan data	Motor power extract air fan 5
VentComActual.CA_ActiveFaultSAF(1)		0486	R	AV, 40486	1		Fan data	Error code supply air fan 1
VentComActual.CA_ActiveFaultSAF(2)		0487	R	AV, 40487	1		Fan data	Error code supply air fan 2
VentComActual.CA_ActiveFaultSAF(3)		0488	R	AV, 40488	1		Fan data	Error code supply air fan 3
VentComActual.CA_ActiveFaultSAF(4)		0489	R	AV, 40489	1		Fan data	Error code supply air fan 4
VentComActual.CA_ActiveFaultSAF(5)		0490	R	AV, 40490	1		Fan data	Error code supply air fan 5
VentComActual.CA_ActiveFaultEAF(1)		0491	R	AV, 40491	1		Fan data	Error code extract air fan 1
VentComActual.CA_ActiveFaultEAF(2)		0492	R	AV, 40492	1		Fan data	Error code extract air fan 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentComActual.CA_ActiveFaultEAF(3)		0493	R	AV, 40493	1		Fan data	Error code extract air fan 3
VentComActual.CA_ActiveFaultEAF(4)		0494	R	AV, 40494	1		Fan data	Error code extract air fan 4
VentComActual.CA_ActiveFaultEAF(5)		0495	R	AV, 40495	1		Fan data	Error code extract air fan 5
VentComActual.CA_ActualSpeedSAF(1)		0496	R	AV, 40496	10		Fan data	Actual speed supply air fan 1
VentComActual.CA_ActualSpeedSAF(2)		0497	R	AV, 40497	10		Fan data	Actual speed supply air fan 2
VentComActual.CA_ActualSpeedSAF(3)		0498	R	AV, 40498	10		Fan data	Actual speed supply air fan 3
VentComActual.CA_ActualSpeedSAF(4)		0499	R	AV, 40499	10		Fan data	Actual speed supply air fan 4
VentComActual.CA_ActualSpeedSAF(5)		0500	R	AV, 40500	10		Fan data	Actual speed supply air fan 5
VentComActual.CA_ActualSpeedEAF(1)		0501	R	AV, 40501	10		Fan data	Actual speed extract air fan 1
VentComActual.CA_ActualSpeedEAF(2)		0502	R	AV, 40502	10		Fan data	Actual speed extract air fan 2
VentComActual.CA_ActualSpeedEAF(3)		0503	R	AV, 40503	10		Fan data	Actual speed extract air fan 3
VentComActual.CA_ActualSpeedEAF(4)		0504	R	AV, 40504	10		Fan data	Actual speed extract air fan 4
VentComActual.CA_ActualSpeedEAF(5)		0505	R	AV, 40505	10		Fan data	Actual speed extract air fan 5
VentComActual.CA_AccumPowerSAF(1)		0506	R	AV, 40506	10		Fan data	Accumulated power supply air fan 1
VentComActual.CA_AccumPowerSAF(2)		0507	R	AV, 40507	10		Fan data	Accumulated power supply air fan 2
VentComActual.CA_AccumPowerSAF(3)		0508	R	AV, 40508	10		Fan data	Accumulated power supply air fan 3
VentComActual.CA_AccumPowerSAF(4)		0509	R	AV, 40509	10		Fan data	Accumulated power supply air fan 4
VentComActual.CA_AccumPowerSAF(5)		0510	R	AV, 40510	10		Fan data	Accumulated power supply air fan 5
VentComActual.CA_AccumPowerEAF(1)		0511	R	AV, 40511	10		Fan data	Accumulated power extract air fan 1
VentComActual.CA_AccumPowerEAF(2)		0512	R	AV, 40512	10		Fan data	Accumulated power extract air fan 2
VentComActual.CA_AccumPowerEAF(3)		0513	R	AV, 40513	10		Fan data	Accumulated power extract air fan 3
VentComActual.CA_AccumPowerEAF(4)		0514	R	AV, 40514	10		Fan data	Accumulated power extract air fan 4

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentComActual.CA_AccumPowerEAF(5)		0515	R	AV, 40515	10		Fan data	Accumulated power extract air fan 5
VentComActual.CA_VVXFault		0516	R	AV, 40516	1		Exchanger data	Error code exchanger
VentComActual.CA_DamperActPos(1)		0517	R	AV, 40517	10	%	Damper data	Actual position damper 1
VentComActual.CA_DamperActPos(2)		0518	R	AV, 40518	10	%	Damper data	Actual position damper 2
VentComActual.CA_DamperActPos(3)		0519	R	AV, 40519	10	%	Damper data	Actual position damper 3
VentComActual.CA_DamperActPos(4)		0520	R	AV, 40520	10	%	Damper data	Actual position damper 4
VentComActual.CA_DamperActPos(5)		0521	R	AV, 40521	10	%	Damper data	Actual position damper 5
VentComActual.CA_DamperFault(1)		0522	R	AV, 40522	1		Damper data	Error code damper 1
VentComActual.CA_DamperFault(2)		0523	R	AV, 40523	1		Damper data	Error code damper 2
VentComActual.CA_DamperFault(3)		0524	R	AV, 40524	1		Damper data	Error code damper 3
VentComActual.CA_DamperFault(4)		0525	R	AV, 40525	1		Damper data	Error code damper 4
VentComActual.CA_DamperFault(5)		0526	R	AV, 40526	1		Damper data	Error code damper 5

Chapter 5 Holding Register (4x)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(0).T1		0000	RW		100		Time channel	Low speed Monday start time 1 (HH.MM)
TimeDp.Posts(0).T2		0001	RW		100		Time channel	Low speed Monday stop time 1
TimeDp.Posts(0).T3		0002	RW		100		Time channel	Low speed Monday start time 2
TimeDp.Posts(0).T4		0003	RW		100		Time channel	Low speed Monday stop time 2
TimeDp.Posts(1).T1		0004	RW		100		Time channel	Low speed Tuesday start time 1 (HH.MM)
TimeDp.Posts(1).T2		0005	RW		100		Time channel	Low speed Tuesday stop time 1
TimeDp.Posts(1).T3		0006	RW		100		Time channel	Low speed Tuesday start time 2
TimeDp.Posts(1).T4		0007	RW		100		Time channel	Low speed Tuesday stop time 2
TimeDp.Posts(2).T1		0008	RW		100		Time channel	Low speed Wednesday start time 1 (HH.MM)
TimeDp.Posts(2).T2		0009	RW		100		Time channel	Low speed Wednesday stop time 1
TimeDp.Posts(2).T3		0010	RW		100		Time channel	Low speed Wednesday start time 2
TimeDp.Posts(2).T4		0011	RW		100		Time channel	Low speed Wednesday stop time 2
TimeDp.Posts(3).T1		0012	RW		100		Time channel	Low speed Thursday start time 1 (HH.MM)
TimeDp.Posts(3).T2		0013	RW		100		Time channel	Low speed Thursday stop time 1
TimeDp.Posts(3).T3		0014	RW		100		Time channel	Low speed Thursday start time 2
TimeDp.Posts(3).T4		0015	RW		100		Time channel	Low speed Thursday stop time 2
TimeDp.Posts(4).T1		0016	RW		100		Time channel	Low speed Friday start time 1 (HH.MM)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(4).T2		0017	RW		100		Time channel	Low speed Friday stop time 1
TimeDp.Posts(4).T3		0018	RW		100		Time channel	Low speed Friday start time 2
TimeDp.Posts(4).T4		0019	RW		100		Time channel	Low speed Friday stop time 2
TimeDp.Posts(5).T1		0020	RW		100		Time channel	Low speed Saturday start time 1 (HH.MM)
TimeDp.Posts(5).T2		0021	RW		100		Time channel	Low speed Saturday stop time 1
TimeDp.Posts(5).T3		0022	RW		100		Time channel	Low speed Saturday start time 2
TimeDp.Posts(5).T4		0023	RW		100		Time channel	Low speed Saturday stop time 2
TimeDp.Posts(6).T1		0024	RW		100		Time channel	Low speed Sunday start time 1 (HH.MM)
TimeDp.Posts(6).T2		0025	RW		100		Time channel	Low speed Sunday stop time 1
TimeDp.Posts(6).T3		0026	RW		100		Time channel	Low speed Sunday start time 2
TimeDp.Posts(6).T4		0027	RW		100		Time channel	Low speed Sunday stop time 2
TimeDp.Posts(7).T1		0028	RW		100		Time channel	Low speed holiday start time 1 (HH.MM)
TimeDp.Posts(7).T2		0029	RW		100		Time channel	Low speed holiday stop time 1
TimeDp.Posts(7).T3		0030	RW		100		Time channel	Low speed holiday start time 2
TimeDp.Posts(7).T4		0031	RW		100		Time channel	Low speed holiday stop time 2
TimeDp.Posts(8).T1		0032	RW		100		Time channel	Normal speed Monday start time 1 (HH.MM)
TimeDp.Posts(8).T2		0033	RW		100		Time channel	Normal speed Monday stop time 1
TimeDp.Posts(8).T3		0034	RW		100		Time channel	Normal speed Monday start time 2
TimeDp.Posts(8).T4		0035	RW		100		Time channel	Normal speed Monday stop time 2
TimeDp.Posts(9).T1		0036	RW		100		Time channel	Normal speed Tuesday start time 1 (HH.MM)
TimeDp.Posts(9).T2		0037	RW		100		Time channel	Normal speed Tuesday stop time 1
TimeDp.Posts(9).T3		0038	RW		100		Time channel	Normal speed Tuesday start time 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(9).T4		0039	RW		100		Time channel	Normal speed Tuesday stop time 2
TimeDp.Posts(10).T1		0040	RW		100		Time channel	Normal speed Wednesday start time 1 (HH.MM)
TimeDp.Posts(10).T2		0041	RW		100		Time channel	Normal speed Wednesday stop time 1
TimeDp.Posts(10).T3		0042	RW		100		Time channel	Normal speed Wednesday start time 2
TimeDp.Posts(10).T4		0043	RW		100		Time channel	Normal speed Wednesday stop time 2
TimeDp.Posts(11).T1		0044	RW		100		Time channel	Normal speed Thursday start time 1 (HH.MM)
TimeDp.Posts(11).T2		0045	RW		100		Time channel	Normal speed Thursday stop time 1
TimeDp.Posts(11).T3		0046	RW		100		Time channel	Normal speed Thursday start time 2
TimeDp.Posts(11).T4		0047	RW		100		Time channel	Normal speed Thursday stop time 2
TimeDp.Posts(12).T1		0048	RW		100		Time channel	Normal speed Friday start time 1 (HH.MM)
TimeDp.Posts(12).T2		0049	RW		100		Time channel	Normal speed Friday stop time 1
TimeDp.Posts(12).T3		0050	RW		100		Time channel	Normal speed Friday start time 2
TimeDp.Posts(12).T4		0051	RW		100		Time channel	Normal speed Friday stop time 2
TimeDp.Posts(13).T1		0052	RW		100		Time channel	Normal speed Saturday start time 1 (HH.MM)
TimeDp.Posts(13).T2		0053	RW		100		Time channel	Normal speed Saturday stop time 1
TimeDp.Posts(13).T3		0054	RW		100		Time channel	Normal speed Saturday start time 2
TimeDp.Posts(13).T4		0055	RW		100		Time channel	Normal speed Saturday stop time 2
TimeDp.Posts(14).T1		0056	RW		100		Time channel	Normal speed Sunday start time 1 (HH.MM)
TimeDp.Posts(14).T2		0057	RW		100		Time channel	Normal speed Sunday stop time 1
TimeDp.Posts(14).T3		0058	RW		100		Time channel	Normal speed Sunday start time 2
TimeDp.Posts(14).T4		0059	RW		100		Time channel	Normal speed Sunday stop time 2
TimeDp.Posts(15).T1		0060	RW		100		Time channel	Normal speed holiday start time 1 (HH.MM)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(15).T2		0061	RW		100		Time channel	Normal speed holiday stop time 1
TimeDp.Posts(15).T3		0062	RW		100		Time channel	Normal speed holiday start time 2
TimeDp.Posts(15).T4		0063	RW		100		Time channel	Normal speed holiday stop time 2
TimeDp.Posts(16).T1		0064	RW		100		Time channel	High speed Monday start time 1 (HH.MM)
TimeDp.Posts(16).T2		0065	RW		100		Time channel	High speed Monday stop time 1
TimeDp.Posts(16).T3		0066	RW		100		Time channel	High speed Monday start time 2
TimeDp.Posts(16).T4		0067	RW		100		Time channel	High speed Monday stop time 2
TimeDp.Posts(17).T1		0068	RW		100		Time channel	High speed Tuesday start time 1 (HH.MM)
TimeDp.Posts(17).T2		0069	RW		100		Time channel	High speed Tuesday stop time 1
TimeDp.Posts(17).T3		0070	RW		100		Time channel	High speed Tuesday start time 2
TimeDp.Posts(17).T4		0071	RW		100		Time channel	High speed Tuesday stop time 2
TimeDp.Posts(18).T1		0072	RW		100		Time channel	High speed Wednesday start time 1 (HH.MM)
TimeDp.Posts(18).T2		0073	RW		100		Time channel	High speed Wednesday stop time 1
TimeDp.Posts(18).T3		0074	RW		100		Time channel	High speed Wednesday start time 2
TimeDp.Posts(18).T4		0075	RW		100		Time channel	High speed Wednesday stop time 2
TimeDp.Posts(19).T1		0076	RW		100		Time channel	High speed Thursday start time 1 (HH.MM)
TimeDp.Posts(19).T2		0077	RW		100		Time channel	High speed Thursday stop time 1
TimeDp.Posts(19).T3		0078	RW		100		Time channel	High speed Thursday start time 2
TimeDp.Posts(19).T4		0079	RW		100		Time channel	High speed Thursday stop time 2
TimeDp.Posts(20).T1		0080	RW		100		Time channel	High speed Friday start time 1 (HH.MM)
TimeDp.Posts(20).T2		0081	RW		100		Time channel	High speed Friday stop time 1
TimeDp.Posts(20).T3		0082	RW		100		Time channel	High speed Friday start time 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(20).T4		0083	RW		100		Time channel	High speed Friday stop time 2
TimeDp.Posts(21).T1		0084	RW		100		Time channel	High speed Saturday start time 1 (HH.MM)
TimeDp.Posts(21).T2		0085	RW		100		Time channel	High speed Saturday stop time 1
TimeDp.Posts(21).T3		0086	RW		100		Time channel	High speed Saturday start time 2
TimeDp.Posts(21).T4		0087	RW		100		Time channel	High speed Saturday stop time 2
TimeDp.Posts(22).T1		0088	RW		100		Time channel	High speed Sunday start time 1 (HH.MM)
TimeDp.Posts(22).T2		0089	RW		100		Time channel	High speed Sunday stop time 1
TimeDp.Posts(22).T3		0090	RW		100		Time channel	High speed Sunday start time 2
TimeDp.Posts(22).T4		0091	RW		100		Time channel	High speed Sunday stop time 2
TimeDp.Posts(23).T1		0092	RW		100		Time channel	High speed holiday start time 1 (HH.MM)
TimeDp.Posts(23).T2		0093	RW		100		Time channel	High speed holiday stop time 1
TimeDp.Posts(23).T3		0094	RW		100		Time channel	High speed holiday start time 2
TimeDp.Posts(23).T4		0095	RW		100		Time channel	High speed holiday stop time 2
TimeDp.Posts(24).T1		0096	RW		100		Time channel	Extra time channel 1 Monday start time 1 (HH.MM)
TimeDp.Posts(24).T2		0097	RW		100		Time channel	Extra time channel 1 Monday stop time 1
TimeDp.Posts(24).T3		0098	RW		100		Time channel	Extra time channel 1 Monday start time 2
TimeDp.Posts(24).T4		0099	RW		100		Time channel	Extra time channel 1 Monday stop time 2
TimeDp.Posts(25).T1		0100	RW		100		Time channel	Extra time channel 1 Tuesday start time 1 (HH.MM)
TimeDp.Posts(25).T2		0101	RW		100		Time channel	Extra time channel 1 Tuesday stop time 1
TimeDp.Posts(25).T3		0102	RW		100		Time channel	Extra time channel 1 Tuesday start time 2
TimeDp.Posts(25).T4		0103	RW		100		Time channel	Extra time channel 1 Tuesday stop time 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(26).T1		0104	RW		100		Time channel	Extra time channel 1 Wednesday start time 1 (HH.MM)
TimeDp.Posts(26).T2		0105	RW		100		Time channel	Extra time channel 1 Wednesday stop time 1
TimeDp.Posts(26).T3		0106	RW		100		Time channel	Extra time channel 1 Wednesday start time 2
TimeDp.Posts(26).T4		0107	RW		100		Time channel	Extra time channel 1 Wednesday stop time 2
TimeDp.Posts(27).T1		0108	RW		100		Time channel	Extra time channel 1 Thursday start time 1 (HH.MM)
TimeDp.Posts(27).T2		0109	RW		100		Time channel	Extra time channel 1 Thursday stop time 1
TimeDp.Posts(27).T3		0110	RW		100		Time channel	Extra time channel 1 Thursday start time 2
TimeDp.Posts(27).T4		0111	RW		100		Time channel	Extra time channel 1 Thursday stop time 2
TimeDp.Posts(28).T1		0112	RW		100		Time channel	Extra time channel 1 Friday start time 1 (HH.MM)
TimeDp.Posts(28).T2		0113	RW		100		Time channel	Extra time channel 1 Friday stop time 1
TimeDp.Posts(28).T3		0114	RW		100		Time channel	Extra time channel 1 Friday start time 2
TimeDp.Posts(28).T4		0115	RW		100		Time channel	Extra time channel 1 Friday stop time 2
TimeDp.Posts(29).T1		0116	RW		100		Time channel	Extra time channel 1 Saturday start time 1 (HH.MM)
TimeDp.Posts(29).T2		0117	RW		100		Time channel	Extra time channel 1 Saturday stop time 1
TimeDp.Posts(29).T3		0118	RW		100		Time channel	Extra time channel 1 Saturday start time 2
TimeDp.Posts(29).T4		0119	RW		100		Time channel	Extra time channel 1 Saturday stop time 2
TimeDp.Posts(30).T1		0120	RW		100		Time channel	Extra time channel 1 Sunday start time 1 (HH.MM)
TimeDp.Posts(30).T2		0121	RW		100		Time channel	Extra time channel 1 Sunday stop time 1
TimeDp.Posts(30).T3		0122	RW		100		Time channel	Extra time channel 1 Sunday start time 2
TimeDp.Posts(30).T4		0123	RW		100		Time channel	Extra time channel 1 Sunday stop time 2
TimeDp.Posts(31).T1		0124	RW		100		Time channel	Extra time channel 1 holiday start time 1 (HH.MM)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(31).T2		0125	RW		100		Time channel	Extra time channel 1 holiday stop time 1
TimeDp.Posts(31).T3		0126	RW		100		Time channel	Extra time channel 1 holiday start time 2
TimeDp.Posts(31).T4		0127	RW		100		Time channel	Extra time channel 1 holiday stop time 2
TimeDp.Posts(32).T1		0128	RW		100		Time channel	Extra time channel 2 Monday start time 1 (HH.MM)
TimeDp.Posts(32).T2		0129	RW		100		Time channel	Extra time channel 2 Monday stop time 1
TimeDp.Posts(32).T3		0130	RW		100		Time channel	Extra time channel 2 Monday start time 2
TimeDp.Posts(32).T4		0131	RW		100		Time channel	Extra time channel 2 Monday stop time 2
TimeDp.Posts(33).T1		0132	RW		100		Time channel	Extra time channel 2 Tuesday start time 1 (HH.MM)
TimeDp.Posts(33).T2		0133	RW		100		Time channel	Extra time channel 2 Tuesday stop time 1
TimeDp.Posts(33).T3		0134	RW		100		Time channel	Extra time channel 2 Tuesday start time 2
TimeDp.Posts(33).T4		0135	RW		100		Time channel	Extra time channel 2 Tuesday stop time 2
TimeDp.Posts(34).T1		0136	RW		100		Time channel	Extra time channel 2 Wednesday start time 1 (HH.MM)
TimeDp.Posts(34).T2		0137	RW		100		Time channel	Extra time channel 2 Wednesday stop time 1
TimeDp.Posts(34).T3		0138	RW		100		Time channel	Extra time channel 2 Wednesday start time 2
TimeDp.Posts(34).T4		0139	RW		100		Time channel	Extra time channel 2 Wednesday stop time 2
TimeDp.Posts(35).T1		0140	RW		100		Time channel	Extra time channel 2 Thursday start time 1 (HH.MM)
TimeDp.Posts(35).T2		0141	RW		100		Time channel	Extra time channel 2 Thursday stop time 1
TimeDp.Posts(35).T3		0142	RW		100		Time channel	Extra time channel 2 Thursday start time 2
TimeDp.Posts(35).T4		0143	RW		100		Time channel	Extra time channel 2 Thursday stop time 2
TimeDp.Posts(36).T1		0144	RW		100		Time channel	Extra time channel 2 Friday start time 1 (HH.MM)
TimeDp.Posts(36).T2		0145	RW		100		Time channel	Extra time channel 2 Friday stop time 1

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(36).T3		0146	RW		100		Time channel	Extra time channel 2 Friday start time 2
TimeDp.Posts(36).T4		0147	RW		100		Time channel	Extra time channel 2 Friday stop time 2
TimeDp.Posts(37).T1		0148	RW		100		Time channel	Extra time channel 2 Saturday start time 1 (HH.MM)
TimeDp.Posts(37).T2		0149	RW		100		Time channel	Extra time channel 2 Saturday stop time 1
TimeDp.Posts(37).T3		0150	RW		100		Time channel	Extra time channel 2 Saturday start time 2
TimeDp.Posts(37).T4		0151	RW		100		Time channel	Extra time channel 2 Saturday stop time 2
TimeDp.Posts(38).T1		0152	RW		100		Time channel	Extra time channel 2 Sunday start time 1 (HH.MM)
TimeDp.Posts(38).T2		0153	RW		100		Time channel	Extra time channel 2 Sunday stop time 1
TimeDp.Posts(38).T3		0154	RW		100		Time channel	Extra time channel 2 Sunday start time 2
TimeDp.Posts(38).T4		0155	RW		100		Time channel	Extra time channel 2 Sunday stop time 2
TimeDp.Posts(39).T1		0156	RW		100		Time channel	Extra time channel 2 holiday start time 1 (HH.MM)
TimeDp.Posts(39).T2		0157	RW		100		Time channel	Extra time channel 2 holiday stop time 1
TimeDp.Posts(39).T3		0158	RW		100		Time channel	Extra time channel 2 holiday start time 2
TimeDp.Posts(39).T4		0159	RW		100		Time channel	Extra time channel 2 holiday stop time 2
TimeDp.Posts(40).T1		0160	RW		100		Time channel	Extra time channel 3 Monday start time 1 (HH.MM)
TimeDp.Posts(40).T2		0161	RW		100		Time channel	Extra time channel 3 Monday stop time 1
TimeDp.Posts(40).T3		0162	RW		100		Time channel	Extra time channel 3 Monday start time 2
TimeDp.Posts(40).T4		0163	RW		100		Time channel	Extra time channel 3 Monday stop time 2
TimeDp.Posts(41).T1		0164	RW		100		Time channel	Extra time channel 3 Tuesday start time 1 (HH.MM)
TimeDp.Posts(41).T2		0165	RW		100		Time channel	Extra time channel 3 Tuesday stop time 1
TimeDp.Posts(41).T3		0166	RW		100		Time channel	Extra time channel 3 Tuesday start time 2
TimeDp.Posts(41).T4		0167	RW		100		Time channel	Extra time channel 3 Tuesday stop time 2

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(42).T1		0168	RW		100		Time channel	Extra time channel 3 Wednesday start time 1 (HH.MM)
TimeDp.Posts(42).T2		0169	RW		100		Time channel	Extra time channel 3 Wednesday stop time 1
TimeDp.Posts(42).T3		0170	RW		100		Time channel	Extra time channel 3 Wednesday start time 2
TimeDp.Posts(42).T4		0171	RW		100		Time channel	Extra time channel 3 Wednesday stop time 2
TimeDp.Posts(43).T1		0172	RW		100		Time channel	Extra time channel 3 Thursday start time 1 (HH.MM)
TimeDp.Posts(43).T2		0173	RW		100		Time channel	Extra time channel 3 Thursday stop time 1
TimeDp.Posts(43).T3		0174	RW		100		Time channel	Extra time channel 3 Thursday start time 2
TimeDp.Posts(43).T4		0175	RW		100		Time channel	Extra time channel 3 Thursday stop time 2
TimeDp.Posts(44).T1		0176	RW		100		Time channel	Extra time channel 3 Friday start time 1 (HH.MM)
TimeDp.Posts(44).T2		0177	RW		100		Time channel	Extra time channel 3 Friday stop time 1
TimeDp.Posts(44).T3		0178	RW		100		Time channel	Extra time channel 3 Friday start time 2
TimeDp.Posts(44).T4		0179	RW		100		Time channel	Extra time channel 3 Friday stop time 2
TimeDp.Posts(45).T1		0180	RW		100		Time channel	Extra time channel 3 Saturday start time 1 (HH.MM)
TimeDp.Posts(45).T2		0181	RW		100		Time channel	Extra time channel 3 Saturday stop time 1
TimeDp.Posts(45).T3		0182	RW		100		Time channel	Extra time channel 3 Saturday start time 2
TimeDp.Posts(45).T4		0183	RW		100		Time channel	Extra time channel 3 Saturday stop time 2
TimeDp.Posts(46).T1		0184	RW		100		Time channel	Extra time channel 3 Sunday start time 1 (HH.MM)
TimeDp.Posts(46).T2		0185	RW		100		Time channel	Extra time channel 3 Sunday stop time 1
TimeDp.Posts(46).T3		0186	RW		100		Time channel	Extra time channel 3 Sunday start time 2
TimeDp.Posts(46).T4		0187	RW		100		Time channel	Extra time channel 3 Sunday stop time 2
TimeDp.Posts(47).T1		0188	RW		100		Time channel	Extra time channel 3 holiday start time 1 (HH.MM)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(47).T2		0189	RW		100		Time channel	Extra time channel 3 holiday stop time 1
TimeDp.Posts(47).T3		0190	RW		100		Time channel	Extra time channel 3 holiday start time 2
TimeDp.Posts(47).T4		0191	RW		100		Time channel	Extra time channel 3 holiday stop time 2
TimeDp.Posts(48).T1		0192	RW		100		Time channel	Extra time channel 4 Monday start time 1 (HH.MM)
TimeDp.Posts(48).T2		0193	RW		100		Time channel	Extra time channel 4 Monday stop time 1
TimeDp.Posts(48).T3		0194	RW		100		Time channel	Extra time channel 4 Monday start time 2
TimeDp.Posts(48).T4		0195	RW		100		Time channel	Extra time channel 4 Monday stop time 2
TimeDp.Posts(49).T1		0196	RW		100		Time channel	Extra time channel 4 Tuesday start time 1 (HH.MM)
TimeDp.Posts(49).T2		0197	RW		100		Time channel	Extra time channel 4 Tuesday stop time 1
TimeDp.Posts(49).T3		0198	RW		100		Time channel	Extra time channel 4 Tuesday start time 2
TimeDp.Posts(49).T4		0199	RW		100		Time channel	Extra time channel 4 Tuesday stop time 2
TimeDp.Posts(50).T1		0200	RW		100		Time channel	Extra time channel 4 Wednesday start time 1 (HH.MM)
TimeDp.Posts(50).T2		0201	RW		100		Time channel	Extra time channel 4 Wednesday stop time 1
TimeDp.Posts(50).T3		0202	RW		100		Time channel	Extra time channel 4 Wednesday start time 2
TimeDp.Posts(50).T4		0203	RW		100		Time channel	Extra time channel 4 Wednesday stop time 2
TimeDp.Posts(51).T1		0204	RW		100		Time channel	Extra time channel 4 Thursday start time 1 (HH.MM)
TimeDp.Posts(51).T2		0205	RW		100		Time channel	Extra time channel 4 Thursday stop time 1
TimeDp.Posts(51).T3		0206	RW		100		Time channel	Extra time channel 4 Thursday start time 2
TimeDp.Posts(51).T4		0207	RW		100		Time channel	Extra time channel 4 Thursday stop time 2
TimeDp.Posts(52).T1		0208	RW		100		Time channel	Extra time channel 4 Friday start time 1 (HH.MM)
TimeDp.Posts(52).T2		0209	RW		100		Time channel	Extra time channel 4 Friday stop time 1

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeDp.Posts(52).T3		0210	RW		100		Time channel	Extra time channel 4 Friday start time 2
TimeDp.Posts(52).T4		0211	RW		100		Time channel	Extra time channel 4 Friday stop time 2
TimeDp.Posts(53).T1		0212	RW		100		Time channel	Extra time channel 4 Saturday start time 1 (HH.MM)
TimeDp.Posts(53).T2		0213	RW		100		Time channel	Extra time channel 4 Saturday stop time 1
TimeDp.Posts(53).T3		0214	RW		100		Time channel	Extra time channel 4 Saturday start time 2
TimeDp.Posts(53).T4		0215	RW		100		Time channel	Extra time channel 4 Saturday stop time 2
TimeDp.Posts(54).T1		0216	RW		100		Time channel	Extra time channel 4 Sunday start time 1 (HH.MM)
TimeDp.Posts(54).T2		0217	RW		100		Time channel	Extra time channel 4 Sunday stop time 1
TimeDp.Posts(54).T3		0218	RW		100		Time channel	Extra time channel 4 Sunday start time 2
TimeDp.Posts(54).T4		0219	RW		100		Time channel	Extra time channel 4 Sunday stop time 2
TimeDp.Posts(55).T1		0220	RW		100		Time channel	Extra time channel 4 holiday start time 1 (HH.MM)
TimeDp.Posts(55).T2		0221	RW		100		Time channel	Extra time channel 4 holiday stop time 1
TimeDp.Posts(55).T3		0222	RW		100		Time channel	Extra time channel 4 holiday start time 2
TimeDp.Posts(55).T4		0223	RW		100		Time channel	Extra time channel 4 holiday stop time 2
TimeHp.Posts(0).FromDate		0224	RW		100		Time channel	Holiday period 1 start date (MM.DD)
TimeHp.Posts(0).ToDate		0225	RW		100		Time channel	Holiday period 1 end date (MM.DD)
TimeHp.Posts(1).FromDate		0226	RW		100		Time channel	Holiday period 2 start date (MM.DD)
TimeHp.Posts(1).ToDate		0227	RW		100		Time channel	Holiday period 2 end date (MM.DD)
TimeHp.Posts(2).FromDate		0228	RW		100		Time channel	Holiday period 3 start date (MM.DD)
TimeHp.Posts(2).ToDate		0229	RW		100		Time channel	Holiday period 3 end date (MM.DD)
TimeHp.Posts(3).FromDate		0230	RW		100		Time channel	Holiday period 4 start date (MM.DD)
TimeHp.Posts(3).ToDate		0231	RW		100		Time channel	Holiday period 4 end date (MM.DD)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeHp.Posts(4).FromDate		0232	RW		100		Time channel	Holiday period 5 start date (MM.DD)
TimeHp.Posts(4).ToDate		0233	RW		100		Time channel	Holiday period 5 end date (MM.DD)
TimeHp.Posts(5).FromDate		0234	RW		100		Time channel	Holiday period 6 start date (MM.DD)
TimeHp.Posts(5).ToDate		0235	RW		100		Time channel	Holiday period 6 end date (MM.DD)
TimeHp.Posts(6).FromDate		0236	RW		100		Time channel	Holiday period 7 start date (MM.DD)
TimeHp.Posts(6).ToDate		0237	RW		100		Time channel	Holiday period 7 end date (MM.DD)
TimeHp.Posts(7).FromDate		0238	RW		100		Time channel	Holiday period 8 start date (MM.DD)
TimeHp.Posts(7).ToDate		0239	RW		100		Time channel	Holiday period 8 end date (MM.DD)
TimeHp.Posts(8).FromDate		0240	RW		100		Time channel	Holiday period 9 start date (MM.DD)
TimeHp.Posts(8).ToDate		0241	RW		100		Time channel	Holiday period 9 end date (MM.DD)
TimeHp.Posts(9).FromDate		0242	RW		100		Time channel	Holiday period 10 start date (MM.DD)
TimeHp.Posts(9).ToDate		0243	RW		100		Time channel	Holiday period 10 end date (MM.DD)
TimeHp.Posts(10).FromDate		0244	RW		100		Time channel	Holiday period 11 start date (MM.DD)
TimeHp.Posts(10).ToDate		0245	RW		100		Time channel	Holiday period 11 end date (MM.DD)
TimeHp.Posts(11).FromDate		0246	RW		100		Time channel	Holiday period 12 start date (MM.DD)
TimeHp.Posts(11).ToDate		0247	RW		100		Time channel	Holiday period 12 end date (MM.DD)
TimeHp.Posts(12).FromDate		0248	RW		100		Time channel	Holiday period 13 start date (MM.DD)
TimeHp.Posts(12).ToDate		0249	RW		100		Time channel	Holiday period 13 end date (MM.DD)
TimeHp.Posts(13).FromDate		0250	RW		100		Time channel	Holiday period 14 start date (MM.DD)
TimeHp.Posts(13).ToDate		0251	RW		100		Time channel	Holiday period 14 end date (MM.DD)
TimeHp.Posts(14).FromDate		0252	RW		100		Time channel	Holiday period 15 start date (MM.DD)
TimeHp.Posts(14).ToDate		0253	RW		100		Time channel	Holiday period 15 end date (MM.DD)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
TimeHp.Posts(15).FromDate		0254	RW		100		Time channel	Holiday period 16 start date (MM.DD)
TimeHp.Posts(15).ToDate		0255	RW		100		Time channel	Holiday period 16 end date (MM.DD)
TimeHp.Posts(16).FromDate		0256	RW		100		Time channel	Holiday period 17 start date (MM.DD)
TimeHp.Posts(16).ToDate		0257	RW		100		Time channel	Holiday period 17 end date (MM.DD)
TimeHp.Posts(17).FromDate		0258	RW		100		Time channel	Holiday period 18 start date (MM.DD)
TimeHp.Posts(17).ToDate		0259	RW		100		Time channel	Holiday period 18 end date (MM.DD)
TimeHp.Posts(18).FromDate		0260	RW		100		Time channel	Holiday period 19 start date (MM.DD)
TimeHp.Posts(18).ToDate		0261	RW		100		Time channel	Holiday period 19 end date (MM.DD)
TimeHp.Posts(19).FromDate		0262	RW		100		Time channel	Holiday period 20 start date (MM.DD)
TimeHp.Posts(19).ToDate		0263	RW		100		Time channel	Holiday period 20 end date (MM.DD)
TimeHp.Posts(20).FromDate		0264	RW		100		Time channel	Holiday period 21 start date (MM.DD)
TimeHp.Posts(20).ToDate		0265	RW		100		Time channel	Holiday period 21 end date (MM.DD)
TimeHp.Posts(21).FromDate		0266	RW		100		Time channel	Holiday period 22 start date (MM.DD)
TimeHp.Posts(21).ToDate		0267	RW		100		Time channel	Holiday period 22 end date (MM.DD)
TimeHp.Posts(22).FromDate		0268	RW		100		Time channel	Holiday period 23 start date (MM.DD)
TimeHp.Posts(22).ToDate		0269	RW		100		Time channel	Holiday period 23 end date (MM.DD)
TimeHp.Posts(23).FromDate		0270	RW		100		Time channel	Holiday period 24 start date (MM.DD)
TimeHp.Posts(23).ToDate		0271	RW		100		Time channel	Holiday period 24 end date (MM.DD)
TimePro.TC_FanLowSpeed_Status		0272	RW	MSV, 30272	1		Operation override	Manual/Auto Low Speed time channel Modbus 0=Manual off 1=Manual on 2=Forced off 3=Forced on

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
								4=Auto Bacnet +1 offset for corresponding Modbus
TimePro.TC_FanNormalSpeed_Status		0273	RW	MSV, 30273	1		Operation override	Manual/Auto Normal Speed time channel (See signal list for FanLowSpeed_Status)
TimePro.TC_FanHighSpeed_Status		0274	RW	MSV, 30274	1		Operation override	Manual/Auto High Speed time channel (See signal list for FanLowSpeed_Status)
TimePro.TC_Extra1_Status		0275	RW	MSV, 30275	1		Operation override	Manual/Auto Timer output 1 (See signal list for FanLowSpeed_Status)
TimePro.TC_Extra2_Status		0276	RW	MSV, 30276	1		Operation override	Manual/Auto Timer output 2 (See signal list for FanLowSpeed_Status)
TimePro.TC_Extra3_Status		0277	RW	MSV, 30277	1		Operation override	Manual/Auto Timer output 3 (See signal list for FanLowSpeed_Status)
TimePro.TC_Extra4_Status		0278	RW	MSV, 30278	1		Operation override	Manual/Auto Timer output 4 (See signal list for FanLowSpeed_Status)
QSystem.Minute		0280	RW	AV, 30280	1		Real Time Clock	Real time clock: Minute 0-59
QSystem.Hour		0281	RW	AV, 30281	1		Real Time Clock	Real time clock: Hour 0-23
QSystem.WDay		0282	RW	AV, 30282	1		Real Time Clock	Real time clock: Day of Week 1-7, 1=Monday
QSystem.Week		0283	RW	AV, 30283	1		Real Time Clock	Real time clock: Week number 1-53
QSystem.Date		0284	RW	AV, 30284	1		Real Time Clock	Real time clock: Day of month 1-31
QSystem.Month		0285	RW	AV, 30285	1		Real Time Clock	Real time clock: Month 1-12
QSystem.Year		0286	RW	AV, 30286	1		Real Time Clock	Real time clock: Year 0-99
AlaData.Ala_MalfunctionSAF1_DelayValue		0287	RW		1		Alarm setting	Alarm delay malfunction supply air fan 1
AlaData.Ala_MalfunctionSAF2_DelayValue		0288	RW		1		Alarm setting	Alarm delay malfunction supply air fan 2
AlaData.Ala_MalfunctionSAF3_DelayValue		0289	RW		1		Alarm setting	Alarm delay malfunction supply air fan 3
AlaData.Ala_MalfunctionSAF4_DelayValue		0290	RW		1		Alarm setting	Alarm delay malfunction supply air fan 4

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_MalfunctionSAF5_DelayValue		0291	RW		1		Alarm setting	Alarm delay malfunction supply air fan 5
AlaData.Ala_MalfunctionEAF1_DelayValue		0292	RW		1		Alarm setting	Alarm delay malfunction extract air fan 1
AlaData.Ala_MalfunctionEAF2_DelayValue		0293	RW		1		Alarm setting	Alarm delay malfunction extract air fan 2
AlaData.Ala_MalfunctionEAF3_DelayValue		0294	RW		1		Alarm setting	Alarm delay malfunction extract air fan 3
AlaData.Ala_MalfunctionEAF4_DelayValue		0295	RW		1		Alarm setting	Alarm delay malfunction extract air fan 4
AlaData.Ala_MalfunctionEAF5_DelayValue		0296	RW		1		Alarm setting	Alarm delay malfunction extract air fan 5
AlaData.Ala_AlarmSAF1_DelayValue		0297	RW		1		Alarm setting	Alarm delay alarm supply air fan 1
AlaData.Ala_AlarmSAF2_DelayValue		0298	RW		1		Alarm setting	Alarm delay alarm supply air fan 2
AlaData.Ala_AlarmSAF3_DelayValue		0299	RW		1		Alarm setting	Alarm delay alarm supply air fan 3
AlaData.Ala_AlarmSAF4_DelayValue		0300	RW		1		Alarm setting	Alarm delay alarm supply air fan 4
AlaData.Ala_AlarmSAF5_DelayValue		0301	RW		1		Alarm setting	Alarm delay alarm supply air fan 5
AlaData.Ala_AlarmEAF1_DelayValue		0302	RW		1		Alarm setting	Alarm delay alarm extract air fan 1
AlaData.Ala_AlarmEAF2_DelayValue		0303	RW		1		Alarm setting	Alarm delay alarm extract air fan 2
AlaData.Ala_AlarmEAF3_DelayValue		0304	RW		1		Alarm setting	Alarm delay alarm extract air fan 3
AlaData.Ala_AlarmEAF4_DelayValue		0305	RW		1		Alarm setting	Alarm delay alarm extract air fan 4
AlaData.Ala_AlarmEAF5_DelayValue		0306	RW		1		Alarm setting	Alarm delay alarm extract air fan 5
AlaData.Ala_WarningSAF1_DelayValue		0307	RW		1		Alarm setting	Alarm delay warning supply air fan 1
AlaData.Ala_WarningSAF2_DelayValue		0308	RW		1		Alarm setting	Alarm delay warning supply air fan 2
AlaData.Ala_WarningSAF3_DelayValue		0309	RW		1		Alarm setting	Alarm delay warning supply air fan 3
AlaData.Ala_WarningSAF4_DelayValue		0310	RW		1		Alarm setting	Alarm delay warning supply air fan 4
AlaData.Ala_WarningSAF5_DelayValue		0311	RW		1		Alarm setting	Alarm delay warning supply air fan 5
AlaData.Ala_WarningEAF1_DelayValue		0312	RW		1		Alarm setting	Alarm delay warning extract air fan 1

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_WarningEAF2_DelayValue		0313	RW		1		Alarm setting	Alarm delay warning extract air fan 2
AlaData.Ala_WarningEAF3_DelayValue		0314	RW		1		Alarm setting	Alarm delay warning extract air fan 3
AlaData.Ala_WarningEAF4_DelayValue		0315	RW		1		Alarm setting	Alarm delay warning extract air fan 4
AlaData.Ala_WarningEAF5_DelayValue		0316	RW		1		Alarm setting	Alarm delay warning extract air fan 5
AlaData.Ala_ExternalRunSAF_DelayValue		0317	RW		1		Alarm setting	Alarm delay external operation supply air fan
AlaData.Ala_ExternalRunEAF_DelayValue		0318	RW		1		Alarm setting	Alarm delay external operation extract air fan
AlaData.Ala_ExternalRunMotor1_DelayValue		0319	RW		1		Alarm setting	Alarm delay extra fan motor 1 running
AlaData.Ala_ExternalRunMotor2_DelayValue		0320	RW		1		Alarm setting	Alarm delay extra fan motor 2 running
AlaData.Ala_MalfunctionPumpHeater_DelayValue		0321	RW		1		Alarm setting	Alarm delay malfunction pump heater
AlaData.Ala_MalfunctionPumpCooler_DelayValue		0322	RW		1		Alarm setting	Alarm delay malfunction pump cooler
AlaData.Ala_MalfunctionPumpExchanger_DelayValue		0323	RW		1		Alarm setting	Alarm delay malfunction pump exchanger
AlaData.Ala_MalfunctionFireDamper_DelayValue		0324	RW		1		Alarm setting	Alarm delay malfunction fire damper
AlaData.Ala_MalfunctionDamper_DelayValue		0325	RW		1		Alarm setting	Alarm delay malfunction damper
AlaData.Ala_MalfunctionMotor1_DelayValue		0326	RW		1		Alarm setting	Alarm delay malfunction extra fan motor 1
AlaData.Ala_MalfunctionMotor2_DelayValue		0327	RW		1		Alarm setting	Alarm delay malfunction extra fan motor 2
AlaData.Ala_MalfunctionAdiabaticCooling_DelayValue		0328	RW		1		Alarm setting	Alarm delay malfunction adiabatic cooling
AlaData.Ala_MalfunctionPumpSequence1_DelayValue		0329	RW		1		Alarm setting	Alarm delay malfunction pump sequence-A
AlaData.Ala_MalfunctionPumpSequence2_DelayValue		0330	RW		1		Alarm setting	Alarm delay malfunction pump sequence-B
AlaData.Ala_MalfunctionPumpSequence3_DelayValue		0331	RW		1		Alarm setting	Alarm delay malfunction pump sequence-C
AlaData.Ala_MalfunctionPumpSequence4_DelayValue		0332	RW		1		Alarm setting	Alarm delay malfunction pump sequence-D
AlaData.Ala_MalfunctionPumpSequence5_DelayValue		0333	RW		1		Alarm setting	Alarm delay malfunction pump sequence-E
AlaData.Ala_MalfunctionPumpSequence6_DelayValue		0334	RW		1		Alarm setting	Alarm delay malfunction pump sequence-F

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_MalfunctionPumpSequence7_DelayValue		0335	RW		1		Alarm setting	Alarm delay malfunction pump sequence-G
AlaData.Ala_MalfunctionPumpSequence8_DelayValue		0336	RW		1		Alarm setting	Alarm delay malfunction pump sequence-H
AlaData.Ala_MalfunctionPumpSequence9_DelayValue		0337	RW		1		Alarm setting	Alarm delay malfunction pump sequence-I
AlaData.Ala_MalfunctionPumpSequence10_DelayValue		0338	RW		1		Alarm setting	Alarm delay malfunction pump sequence-J
AlaData.Ala_FilterGuard1_DelayValue		0339	RW		1		Alarm setting	Alarm delay filter alarm supply air
AlaData.Ala_FilterGuard2_DelayValue		0340	RW		1		Alarm setting	Alarm delay filter alarm extract air
AlaData.Ala_FlowGuard_DelayValue		0341	RW		1		Alarm setting	Alarm delay alarm low air flow
AlaData.Ala_ExternalFrostGuard_DelayValue		0342	RW		1		Alarm setting	Alarm delay freeze protection guard
AlaData.Ala_DeicingGuard_DelayValue		0343	RW		1		Alarm setting	Alarm delay defrosting guard exchanger
AlaData.Ala_FireAlarm_DelayValue		0344	RW		1		Alarm setting	Alarm delay fire alarm
AlaData.Ala_SmokeAlarm_DelayValue		0345	RW		1		Alarm setting	Alarm delay smoke alarm
AlaData.Ala_ExternalSwitch_DelayValue		0346	RW		1		Alarm setting	Alarm delay external stop
AlaData.Ala_ExternalAlarm_DelayValue		0347	RW		1		Alarm setting	Alarm delay external alarm
AlaData.Ala_ServiceStop_DelayValue		0348	RW		1		Alarm setting	Alarm delay service stop
AlaData.Ala_ElectricOverheat_DelayValue		0349	RW		1		Alarm setting	Alarm delay electric heater is overheated
AlaData.Ala_FrostRisk_DelayValue		0350	RW		1		Alarm setting	Alarm delay warning freeze protection
AlaData.Ala_LowEfficiency_DelayValue		0351	RW		1		Alarm setting	Alarm delay low efficiency exchanger
AlaData.Ala_AnalogueDeicing_DelayValue		0352	RW		1		Alarm setting	Alarm delay defrosting alarm
AlaData.Ala_RotationguardExchanger_DelayValue		0353	RW		1		Alarm setting	Alarm delay rotary exchanger alarm
AlaData.Ala_ExtraAlarm1_DelayValue		0354	RW		1		Alarm setting	Alarm delay extra alarm 1
AlaData.Ala_ExtraAlarm2_DelayValue		0355	RW		1		Alarm setting	Alarm delay extra alarm 2
AlaData.Ala_ExtraAlarm3_DelayValue		0356	RW		1		Alarm setting	Alarm delay extra alarm 3

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_ExtraAlarm4_DelayValue		0357	RW		1		Alarm setting	Alarm delay extra alarm 4
AlaData.Ala_ExtraAlarm5_DelayValue		0358	RW		1		Alarm setting	Alarm delay extra alarm 5
AlaData.Ala_ExtraAlarm6_DelayValue		0359	RW		1		Alarm setting	Alarm delay extra alarm 6
AlaData.Ala_ExtraAlarm7_DelayValue		0360	RW		1		Alarm setting	Alarm delay extra alarm 7
AlaData.Ala_ExtraAlarm8_DelayValue		0361	RW		1		Alarm setting	Alarm delay extra alarm 8
AlaData.Ala_ExtraAlarm9_DelayValue		0362	RW		1		Alarm setting	Alarm delay extra alarm 9
AlaData.Ala_ExtraAlarm10_DelayValue		0363	RW		1		Alarm setting	Alarm delay extra alarm 10
AlaData.Ala_BatteryFail_DelayValue		0364	RW		1		Alarm setting	Alarm delay internal battery error
AlaData.Ala_Service_DelayValue		0365	RW		1		Alarm setting	Alarm delay alarm service interval
AlaData.Ala_RestartBlocked_DelayValue		0366	RW		1		Alarm setting	Alarm delay restart blocked after power on
AlaData.Ala_ControlErrorSupplyTemp_DelayValue		0367	RW		1		Alarm setting	Alarm delay deviation alarm supply air temperature
AlaData.Ala_ControlErrorSAF_DelayValue		0368	RW		1		Alarm setting	Alarm delay deviation alarm supply air fan
AlaData.Ala_ControlErrorEAF_DelayValue		0369	RW		1		Alarm setting	Alarm delay deviation alarm extract air fan
AlaData.Ala_ControlErrorHumidity_DelayValue		0370	RW		1		Alarm setting	Alarm delay deviation alarm humidity control
AlaData.Ala_ControlErrorExtraController_DelayValue		0371	RW		1		Alarm setting	Alarm delay deviation alarm extra controller
AlaData.Ala_HighTempSupply_DelayValue		0372	RW		1		Alarm setting	Alarm delay high supply air temperature
AlaData.Ala_LowTempSupply_DelayValue		0373	RW		1		Alarm setting	Alarm delay low supply air temperature
AlaData.Ala_MaxLimitTempSupply_DelayValue		0374	RW		1		Alarm setting	Alarm delay supply air temperature max limit
AlaData.Ala_MinLimitTempSupply_DelayValue		0375	RW		1		Alarm setting	Alarm delay supply air temperature min limit
AlaData.Ala_HighTempRoom_DelayValue		0376	RW		1		Alarm setting	Alarm delay high room temperature
AlaData.Ala_LowTempRoom_DelayValue		0377	RW		1		Alarm setting	Alarm delay low room temperature
AlaData.Ala_HighTempExtract_DelayValue		0378	RW		1		Alarm setting	Alarm delay high extract air temperature

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_LowTempExtract_DelayValue		0379	RW		1		Alarm setting	Alarm delay low extract air temperature
AlaData.Ala_HighTempOutdoor_DelayValue		0380	RW		1		Alarm setting	Alarm delay high outdoor air temperature
AlaData.Ala_LowTempOutdoor_DelayValue		0381	RW		1		Alarm setting	Alarm delay low outdoor air temperature
AlaData.Ala_LowTempFrostGuard1_DelayValue		0382	RW		1		Alarm setting	Alarm delay freeze protection alarm 1
AlaData.Ala_LowTempFrostGuard2_DelayValue		0383	RW		1		Alarm setting	Alarm delay freeze protection alarm 2
AlaData.Ala_LowTempFrostGuard3_DelayValue		0384	RW		1		Alarm setting	Alarm delay freeze protection alarm 3
AlaData.Ala_HighTempExtraSensor1_DelayValue		0385	RW		1		Alarm setting	Alarm delay high temperature extra sensor 1
AlaData.Ala_LowTempExtraSensor1_DelayValue		0386	RW		1		Alarm setting	Alarm delay low temperature extra sensor 1
AlaData.Ala_HighTempExtraSensor2_DelayValue		0387	RW		1		Alarm setting	Alarm delay high temperature extra sensor 2
AlaData.Ala_LowTempExtraSensor2_DelayValue		0388	RW		1		Alarm setting	Alarm delay low temperature extra sensor 2
AlaData.Ala_HighTempExtraSensor3_DelayValue		0389	RW		1		Alarm setting	Alarm delay high temperature extra sensor 3
AlaData.Ala_LowTempExtraSensor3_DelayValue		0390	RW		1		Alarm setting	Alarm delay low temperature extra sensor 3
AlaData.Ala_HighTempExtraSensor4_DelayValue		0391	RW		1		Alarm setting	Alarm delay high temperature extra sensor 4
AlaData.Ala_LowTempExtraSensor4_DelayValue		0392	RW		1		Alarm setting	Alarm delay low temperature extra sensor 4
AlaData.Ala_HighTempExtraSensor5_DelayValue		0393	RW		1		Alarm setting	Alarm delay high temperature extra sensor 5
AlaData.Ala_LowTempExtraSensor5_DelayValue		0394	RW		1		Alarm setting	Alarm delay low temperature extra sensor 5
AlaData.Ala_HighTempSelectedSensor1_DelayValue		0395	RW		1		Alarm setting	Alarm delay high temperature selected sensor 1
AlaData.Ala_LowTempSelectedSensor1_DelayValue		0396	RW		1		Alarm setting	Alarm delay low temperature selected sensor 1
AlaData.Ala_HighTempSelectedSensor2_DelayValue		0397	RW		1		Alarm setting	Alarm delay high temperature selected sensor 2
AlaData.Ala_LowTempSelectedSensor2_DelayValue		0398	RW		1		Alarm setting	Alarm delay low temperature selected sensor 2
AlaData.Ala_ManualControlUnit_DelayValue		0399	RW		1		Alarm setting	Alarm delay manual operation air handling unit
AlaData.Ala_ManualControlSupply_DelayValue		0400	RW		1		Alarm setting	Alarm delay manual operation supply air

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_ManualControlSAF_DelayValue		0401	RW		1		Alarm setting	Alarm delay manual operation supply air fan
AlaData.Ala_ManualControlEAF_DelayValue		0402	RW		1		Alarm setting	Alarm delay manual operation extract air fan
AlaData.Ala_ManualControlHeater_DelayValue		0403	RW		1		Alarm setting	Alarm delay manual operation heater
AlaData.Ala_ManualControlExchanger_DelayValue		0404	RW		1		Alarm setting	Alarm delay manual operation exchanger
AlaData.Ala_ManualControlCooler_DelayValue		0405	RW		1		Alarm setting	Alarm delay manual operation cooler
AlaData.Ala_ManualControlDamper_DelayValue		0406	RW		1		Alarm setting	Alarm delay manual operation damper
AlaData.Ala_ManualControlPumpHeater_DelayValue		0407	RW		1		Alarm setting	Alarm delay manual operation pump heater
AlaData.Ala_ManualControlPumpExchanger_DelayValue		0408	RW		1		Alarm setting	Alarm delay manual operation pump exchanger
AlaData.Ala_ManualControlPumpCooler_DelayValue		0409	RW		1		Alarm setting	Alarm delay manual operation pump cooler
AlaData.Ala_ManualControlDamperRecirculation_DelayValue		0410	RW		1		Alarm setting	Alarm delay manual operation damper recirculation
AlaData.Ala_ManualControlDamperOutdoor_DelayValue		0411	RW		1		Alarm setting	Alarm delay manual operation damper outdoor air
AlaData.Ala_ManualControlDamperExhaust_DelayValue		0412	RW		1		Alarm setting	Alarm delay manual operation damper exhaust air
AlaData.Ala_ManualControlDamperFire_DelayValue		0413	RW		1		Alarm setting	Alarm delay manual operation fire damper
AlaData.Ala_ManualControlSequence1_DelayValue		0414	RW		1		Alarm setting	Alarm delay manual control sequence-A
AlaData.Ala_ManualControlSequence2_DelayValue		0415	RW		1		Alarm setting	Alarm delay manual control sequence-B
AlaData.Ala_ManualControlSequence3_DelayValue		0416	RW		1		Alarm setting	Alarm delay manual control sequence-C
AlaData.Ala_ManualControlSequence4_DelayValue		0417	RW		1		Alarm setting	Alarm delay manual control sequence-D
AlaData.Ala_ManualControlSequence5_DelayValue		0418	RW		1		Alarm setting	Alarm delay manual control sequence-E
AlaData.Ala_ManualControlSequence6_DelayValue		0419	RW		1		Alarm setting	Alarm delay manual control sequence-F
AlaData.Ala_ManualControlSequence7_DelayValue		0420	RW		1		Alarm setting	Alarm delay manual control sequence-G

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_ManualControlSequence8_DelayValue		0421	RW		1		Alarm setting	Alarm delay manual control sequence-H
AlaData.Ala_ManualControlSequence9_DelayValue		0422	RW		1		Alarm setting	Alarm delay manual control sequence-I
AlaData.Ala_ManualControlSequence10_DelayValue		0423	RW		1		Alarm setting	Alarm delay manual control sequence-J
AlaData.Ala_ManualControlOutput_DelayValue		0424	RW		1		Alarm setting	Alarm delay output in manual operation
AlaData.Ala_ManualControlInput_DelayValue		0425	RW		1		Alarm setting	Alarm delay input in manual operation
AlaData.Ala_ManualControlExtraController_DelayValue		0426	RW		1		Alarm setting	Alarm delay manual operation extra controller
AlaData.Ala_ManualControlMotor1_DelayValue		0427	RW		1		Alarm setting	Alarm delay manual operation external fan motor 1
AlaData.Ala_ManualControlMotor2_DelayValue		0428	RW		1		Alarm setting	Alarm delay manual operation external fan motor 2
AlaData.Ala_ManualControlPretreatment_DelayValue		0429	RW		1		Alarm setting	Alarm delay manual operation pretreatment
AlaData.Ala_SensorErrorTempOutdoor_DelayValue		0430	RW		1		Alarm setting	Alarm delay sensor error outdoor air temperature
AlaData.Ala_SensorErrorTempIntake_DelayValue		0431	RW		1		Alarm setting	Alarm delay sensor error intake air temperature
AlaData.Ala_SensorErrorTempSupply_DelayValue		0432	RW		1		Alarm setting	Alarm delay sensor error supply air temperature
AlaData.Ala_SensorErrorTempExhaust_DelayValue		0433	RW		1		Alarm setting	Alarm delay sensor error exhaust air temperature
AlaData.Ala_SensorErrorTempExtract_DelayValue		0434	RW		1		Alarm setting	Alarm delay sensor error extract air temperature
AlaData.Ala_SensorErrorTempRoom1_DelayValue		0435	RW		1		Alarm setting	Alarm delay sensor error room temperature 1
AlaData.Ala_SensorErrorTempRoom2_DelayValue		0436	RW		1		Alarm setting	Alarm delay sensor error room temperature 2
AlaData.Ala_SensorErrorTempRoom3_DelayValue		0437	RW		1		Alarm setting	Alarm delay sensor error room temperature 3
AlaData.Ala_SensorErrorTempRoom4_DelayValue		0438	RW		1		Alarm setting	Alarm delay sensor error room temperature 4
AlaData.Ala_SensorErrorPressureSAF_DelayValue		0439	RW		1		Alarm setting	Alarm delay sensor error pressure supply air
AlaData.Ala_SensorErrorPressureEAF_DelayValue		0440	RW		1		Alarm setting	Alarm delay sensor error pressure extract air
AlaData.Ala_SensorErrorFlowSAF_DelayValue		0441	RW		1		Alarm setting	Alarm delay sensor error flow supply air

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_SensorErrorFlowEAF_DelayValue		0442	RW		1		Alarm setting	Alarm delay sensor error flow extract air
AlaData.Ala_SensorPressureExchangerSAF_DelayValue		0443	RW		1		Alarm setting	Alarm delay sensor error flow exchanger supply air
AlaData.Ala_SensorPressureExchangerEAF_DelayValue		0444	RW		1		Alarm setting	Alarm delay sensor error pressure exchanger extract air
AlaData.Ala_SensorErrorTempDeicing_DelayValue		0445	RW		1		Alarm setting	Alarm delay sensor error defrosting temperature
AlaData.Ala_SensorErrorTempFrost1_DelayValue		0446	RW		1		Alarm setting	Alarm delay sensor error freeze protection temperature 1
AlaData.Ala_SensorErrorTempFrost2_DelayValue		0447	RW		1		Alarm setting	Alarm delay sensor error freeze protection temperature 2
AlaData.Ala_SensorErrorTempFrost3_DelayValue		0448	RW		1		Alarm setting	Alarm delay sensor error freeze protection temperature 3
AlaData.Ala_SensorErrorCO2_DelayValue		0449	RW		1		Alarm setting	Alarm delay sensor error CO2 room/extract air
AlaData.Ala_SensorErrorHumidityRoom_DelayValue		0450	RW		1		Alarm setting	Alarm delay sensor error humidity room/extract air
AlaData.Ala_SensorErrorHumidityDuct_DelayValue		0451	RW		1		Alarm setting	Alarm delay sensor error humidity supply air
AlaData.Ala_SensorErrorTempExtraController_DelayValue		0452	RW		1		Alarm setting	Alarm delay sensor error extra controller
AlaData.Ala_SensorErrorExtCtrlSAF_DelayValue		0453	RW		1		Alarm setting	Alarm delay signal error external control supply air fan
AlaData.Ala_SensorErrorExtCtrlEAF_DelayValue		0454	RW		1		Alarm setting	Alarm delay signal error external control extract air fan
AlaData.Ala_SensorErrorHumidityOutdoor_DelayValue		0455	RW		1		Alarm setting	Alarm delay sensor error humidity outdoor
AlaData.Ala_SensorErrorTempExtraSensor1_DelayValue		0456	RW		1		Alarm setting	Alarm delay sensor error extra sensor 1
AlaData.Ala_SensorErrorTempExtraSensor2_DelayValue		0457	RW		1		Alarm setting	Alarm delay sensor error extra sensor 2
AlaData.Ala_SensorErrorTempExtraSensor3_DelayValue		0458	RW		1		Alarm setting	Alarm delay sensor error extra sensor 3

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
AlaData.Ala_SensorErrorTempExtraSensor4_DelayValue		0459	RW		1		Alarm setting	Alarm delay sensor error extra sensor 4
AlaData.Ala_SensorErrorTempExtraSensor5_DelayValue		0460	RW		1		Alarm setting	Alarm delay sensor error extra sensor 5
AlaData.Ala_SensorErrorExtSupplySetp_DelayValue		0461	RW		1		Alarm setting	Alarm delay sensor error external temperature setpoint
AlaData.Ala_SensorErrorExtFlowSetpoint_DelayValue		0462	RW		1		Alarm setting	Alarm delay signal error external flow setpoint
AlaData.Ala_SensorErrorFilterGuard1_DelayValue		0463	RW		1		Alarm setting	Alarm delay sensor error pressure filter supply air
AlaData.Ala_SensorErrorFilterGuard2_DelayValue		0464	RW		1		Alarm setting	Alarm delay sensor error pressure filter extract air
AlaData.Ala_SensorErrorTempEfficiency_DelayValue		0465	RW		1		Alarm setting	Alarm delay sensor error efficiency temperature exchanger
AlaData.Ala_FireDamperExerciseStop_DelayValue		0466	RW		1		Alarm setting	Alarm delay fire damper exercise stop alarm delay
AlaData.Ala_CommErrorFrequencySAF_DelayValue		0467	RW		1		Alarm setting	Alarm delay communication error supply air fan
AlaData.Ala_CommErrorFrequencyEAF_DelayValue		0468	RW		1		Alarm setting	Alarm delay communication error extract air fan
AlaData.Ala_CommErrorModbus1_DelayValue		0469	RW		1		Alarm setting	Alarm delay communication error device 1
AlaData.Ala_CommErrorModbus2_DelayValue		0470	RW		1		Alarm setting	Alarm delay communication error device 2
AlaData.Ala_CommErrorModbus3_DelayValue		0471	RW		1		Alarm setting	Alarm delay communication error device 3
AlaData.Ala_CommErrorModbus4_DelayValue		0472	RW		1		Alarm setting	Alarm delay communication error device 4
AlaData.Ala_CommErrorModbus5_DelayValue		0473	RW		1		Alarm setting	Alarm delay communication error device 5
AlaData.Ala_CommErrorModbus6_DelayValue		0474	RW		1		Alarm setting	Alarm delay communication error device 6
AlaData.Ala_CommErrorModbus7_DelayValue		0475	RW		1		Alarm setting	Alarm delay communication error device 7
AlaData.Ala_CommErrorModbus8_DelayValue		0476	RW		1		Alarm setting	Alarm delay communication error device 8
AlaData.Ala_CommErrorModbus9_DelayValue		0477	RW		1		Alarm setting	Alarm delay communication error device 9
AlaData.Ala_CommErrorModbus10_DelayValue		0478	RW		1		Alarm setting	Alarm delay communication error device 10

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_AirFlowK(10)		0537	RW	AV, 30537	10		Flow calculation	K-constant for calculating air flow: SAF pressure airflow = S_AirFlowK * A_AI_SAFPressure^S_AirFlowx
VentSettings.S_AirFlowX(10)		0538	RW	AV, 30538	100		Flow calculation	X-constant for calculating air flow: SAF pressure
VentSettings.S_AirFlowK(11)		0539	RW	AV, 30539	10		Flow calculation	K-constant for calculating air flow: EAF pressure
VentSettings.S_AirFlowX(11)		0540	RW	AV, 30540	100		Flow calculation	X-constant for calculating air flow: EAF pressure
VentSettings.S_AirFlowK(12)		0541	RW	AV, 30541	10		Flow calculation	K-constant for calculating air flow: Supply air flow
VentSettings.S_AirFlowX(12)		0542	RW	AV, 30542	100		Flow calculation	X-constant for calculating air flow: Supply air flow
VentSettings.S_AirFlowK(13)		0543	RW	AV, 30543	10		Flow calculation	K-constant for calculating air flow: Extract air flow
VentSettings.S_AirFlowX(13)		0544	RW	AV, 30544	100		Flow calculation	X-constant for calculating air flow: Extract air flow
VentSettings.S_AirFlowK(14)		0545	RW	AV, 30545	10		Flow calculation	K-constant for calculating air flow: Exchanger supply flow
VentSettings.S_AirFlowX(14)		0546	RW	AV, 30546	100		Flow calculation	X-constant for calculating air flow: Exchanger supply flow
VentSettings.S_AirFlowK(15)		0547	RW	AV, 30547	10		Flow calculation	K-constant for calculating air flow: Exchanger extract pressure
VentSettings.S_AirFlowX(15)		0548	RW	AV, 30548	0		Flow calculation	X-constant for calculating air flow: Exchanger extract pressure
VentSettings.S_DOSelect_SeqPumpY1(0)		0549	RW	MSV, 30549	1		Operation override	Running mode pump sequence-A Modbus 0=Manual off 1=Manual on 2=Auto Bacnet +1 offset for corresponding Modbus
VentSettings.S_DOSelect_SeqPumpY2		0550	RW	MSV, 30550	1		Operation override	Running mode pump sequence-B (See signal list for DOSelect_SeqPumpY1(0))

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_DOSelect_SeqPumpY3		0551	RW	MSV, 30551	1		Operation override	Running mode pump sequence-C (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY4		0552	RW	MSV, 30552	1		Operation override	Running mode pump sequence-D (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY5		0553	RW	MSV, 30553	1		Operation override	Running mode pump sequence-E (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY6		0554	RW	MSV, 30554	1		Operation override	Running mode pump sequence-F (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY7		0555	RW	MSV, 30555	1		Operation override	Running mode pump sequence-G (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY8		0556	RW	MSV, 30556	1		Operation override	Running mode pump sequence-H (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY9		0557	RW	MSV, 30557	1		Operation override	Running mode pump sequence-I (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_SeqPumpY10		0558	RW	MSV, 30558	1		Operation override	Running mode pump sequence-J (See signal list for DOSelect_SeqPumpY1(0))
VentSettings.S_DOSelect_RecirculationAirDamper		0559	RW	MSV, 30559	1		Operation override	Running mode recirculation damper: Modbus 0=Close 1=Open 2=Auto Bacnet +1 offset for corresponding Modbus
VentSettings.S_DOSelect_OutdoorAirDamper		0560	RW	MSV, 30560	1		Operation override	Running mode outdoor air damper: (See signal list for DOSelect_RecirculationAirDamper)
VentSettings.S_DOSelect_ExhaustAirDamper		0561	RW	MSV, 30561	1		Operation override	Running mode exhaust air damper: (See signal list for DOSelect_RecirculationAirDamper)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_DOSelect_HumidityStart		0562	RW	MSV, 30562	1		Operation override	Running mode humidity start signal (See signal list for DOSelect_RecirculationAirDamper)
VentSettings.S_DOSelect_ChangeOver1		0563	RW	MSV, 30563	1		Operation override	Select changeOver 1 External Modbus 0=Heating 1=Cooling 2=Auto Bacnet +1 offset for corresponding Modbus
VentSettings.S_DOSelect_ChangeOver2		0564	RW	MSV, 30564	1		Operation override	Select changeOver 2 External (See signal list for DOSelect_ChangeOver1)
VentSettings.S_AirUnitAutoMode		0565	RW	MSV, 30565	1		Operation override	Running mode air handling unit: Modbus 0=Off 1=Manual mode 2=Auto 3=Low speed 4=Normal speed 5=High speed Bacnet +1 offset for corresponding Modbus
VentSettings.S_AirUnitManual		0566	RW	MSV, 30566	1		Operation override	Mode selection for air handling unit in running mode: manual mode Modbus 0=Stop 1=Starting up 2=Low speed run 3=Normal speed run 4=High speed run 5=Heating support run

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
								6=Cooling support run 7=CO ₂ Run 8=Free cool run 9=Fan stop run 10=Fire run 11=Smoke run 12=Recirculation run 13=DeIcing run Bacnet +1 offset for corresponding Modbus
VentSettings.S_SAFAutoMode		0567	RW	MSV, 30567	1		Operation override	Running mode supply air fan: 0=Off, 1=Manual output, 2=Auto, 3=Manual setpoint, 4=Low speed, 5=Normal speed, 6=High speed Bacnet +1 offset for corresponding Modbus
VentSettings.S_SAFManualSetpoint		0568	RW	AV, 30568	10	P/Q	Operation override	Manual setpoint supply air fan if running mode: Manual setpoint
VentSettings.S_SAFManualOutput		0569	RW	AV, 30569	10	%	Operation override	Manual output supply air fan if running mode: Manual output
VentSettings.S_EAFAutoMode		0570	RW	MSV, 30570	1		Operation override	Running mode extract air fan: (See signal list for SAFAutoMode)
VentSettings.S_EAFManualSetpoint		0571	RW	AV, 30571	10	P/Q	Operation override	Manual setpoint extract air fan if running mode: Manual setpoint
VentSettings.S_EAFManualOutput		0572	RW	AV, 30572	10	%	Operation override	Manual output extract air fan if running mode: Manual output

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_ExternalControl		0573	RW	MSV, 30573	1		Operation override	External control: Modbus 0=No External control, 1=Extended run speed 1, 2=Extended run speed 2, 3=Extended run speed 3, 4=External stop, 5=External stop with support control, 6=Start Free cooling, 7 = Recirculation Bacnet +1 offset for corresponding Modbus
VentSettings.S_AirUnitServiceStop		0574	RW	MSV, 30574	1		Operation override	Stop the air handling unit with No 1 prio. Modbus 0 = No 1 = Yes Bacnet +1 offset for corresponding Modbus
VentSettings.S_SeqPumpOutdLimitYx(1)		0575	RW	AV, 30575	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-A
VentSettings.S_SeqPumpOutdLimitYx(2)		0576	RW	AV, 30576	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-B
VentSettings.S_SeqPumpOutdLimitYx(3)		0577	RW	AV, 30577	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-C
VentSettings.S_SeqPumpOutdLimitYx(4)		0578	RW	AV, 30578	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-D
VentSettings.S_SeqPumpOutdLimitYx(5)		0579	RW	AV, 30579	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-E
VentSettings.S_SeqPumpOutdLimitYx(6)		0580	RW	AV, 30580	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-F

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_SeqPumpOutdLimitYx(7)		0581	RW	AV, 30581	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-G
VentSettings.S_SeqPumpOutdLimitYx(8)		0582	RW	AV, 30582	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-H
VentSettings.S_SeqPumpOutdLimitYx(9)		0583	RW	AV, 30583	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-I
VentSettings.S_SeqPumpOutdLimitYx(10)		0584	RW	AV, 30584	10		Unit setting	Outdoor temperature limit to allow pump stop sequence-J
VentSettings.S_VentControl		0585	RW	MSV, 30585	1		Temperature setting	Select temperature control type: Modbus 0=Supply air 1=Supply air outdoor compensated 2=Room cascade 3=Extract air cascade 4=Room (summer) else supply air 5=Extract air (summer) else supply air 6=Room cascade outdoor compensated 7=Extract air cascade outdoor compensated 8=Extract air dependent supply air temperature Bacnet +1 offset for corresponding Modbus
VentSettings.S_FanType		0586	RW	MSV, 30586	1		Fan setting	Select fan control type: Modbus 0=Pressure 1=Flow 2=Manual 3=External 4=Supply air pressure with extract air fan slave 5=Supply air pressure with extract air flow slave 6=Extract air pressure with supply air fan slave 7=Extract air pressure with supply air flow slave

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
								Bacnet +1 offset for corresponding Modbus
VentSettings.S_CascadeTemp		0587	RW	AV, 30587	10		Temperature setting	Outdoor temp for switching between outdoor compensated or cascade control if S_VentControl = 4 or 5 (if higher outdoor temp then cascade control)
VentSettings.S_SupplySetpoint		0588	RW	AV, 30588	10		Temperature setting	Setpoint supply air temperature when constant supply air temperature function
VentSettings.S_ExtractSetpoint		0589	RW	AV, 30589	10		Temperature setting	Setpoint extract air temperature if extract control
VentSettings.S_SupplySetpointMax		0590	RW	AV, 30590	10		Temperature setting	Max limit supply temperature setpoint if cascade control
VentSettings.S_SupplySetpointMin		0591	RW	AV, 30591	10		Temperature setting	Min limit supply temperature setpoint if cascade control
VentSettings.S_SupplySetpOffsetLow		0592	RW	AV, 30592	10		Temperature setting	Offset temperature setpoint if low speed
VentSettings.S_SupplySetpOffsetHigh		0593	RW	AV, 30593	10		Temperature setting	Offset temperature setpoint if high speed
VentSettings.S_Curve1_X1		0594	RW	AV, 30594	10	T	Temperature setting	Outdoor compensation curve point 1 sensor value
VentSettings.S_Curve1_X2		0595	RW	AV, 30595	10	T	Temperature setting	Outdoor compensation curve point 2 sensor value
VentSettings.S_Curve1_X3		0596	RW	AV, 30596	10	T	Temperature setting	Outdoor compensation curve point 3 sensor value
VentSettings.S_Curve1_X4		0597	RW	AV, 30597	10	T	Temperature setting	Outdoor compensation curve point 4 sensor value
VentSettings.S_Curve1_X5		0598	RW	AV, 30598	10	T	Temperature setting	Outdoor compensation curve point 5 sensor value
VentSettings.S_Curve1_X6		0599	RW	AV, 30599	10	T	Temperature setting	Outdoor compensation curve point 6 sensor value
VentSettings.S_Curve1_X7		0600	RW	AV, 30600	10	T	Temperature setting	Outdoor compensation curve point 7 sensor value

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_Curve1_X8		0601	RW	AV, 30601	10	T	Temperature setting	Outdoor compensation curve point 8 sensor value
VentSettings.S_Curve1_Y1		0602	RW	AV, 30602	10	T	Temperature setting	Outdoor compensation curve point 1 setpoint
VentSettings.S_Curve1_Y2		0603	RW	AV, 30603	10	T	Temperature setting	Outdoor compensation curve point 2 setpoint
VentSettings.S_Curve1_Y3		0604	RW	AV, 30604	10	T	Temperature setting	Outdoor compensation curve point 3 setpoint
VentSettings.S_Curve1_Y4		0605	RW	AV, 30605	10	T	Temperature setting	Outdoor compensation curve point 4 setpoint
VentSettings.S_Curve1_Y5		0606	RW	AV, 30606	10	T	Temperature setting	Outdoor compensation curve point 5 setpoint
VentSettings.S_Curve1_Y6		0607	RW	AV, 30607	10	T	Temperature setting	Outdoor compensation curve point 6 setpoint
VentSettings.S_Curve1_Y7		0608	RW	AV, 30608	10	T	Temperature setting	Outdoor compensation curve point 7 setpoint
VentSettings.S_Curve1_Y8		0609	RW	AV, 30609	10	T	Temperature setting	Outdoor compensation curve point 8 setpoint
VentSettings.S_SAFSetpointSelect		0610	RW	MSV, 30610	1		Fan setting	Setpoint selection supply air fan: Modbus 0=Constant setpoints 1=Offset of normal speed setpoint Bacnet +1 offset for corresponding Modbus
VentSettings.S_EAFSetpointSelect		0611	RW	MSV, 30611	1		Fan setting	Setpoint selection extract air fan: (See signal list for SAFSetpointSelect)
VentSettings.S_SAFLowSpeedPressure(0)		0612	RW	AV, 30612	10	P	Fan setting	Pressure setpoint supply air fan low speed
VentSettings.S_SAFNormalSpeedPressure		0613	RW	AV, 30613	10	P	Fan setting	Pressure setpoint supply air fan normal speed
VentSettings.S_SAFHighSpeedPressure		0614	RW	AV, 30614	10	P	Fan setting	Pressure setpoint supply air fan high speed

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_EAFLowSpeedPressure(0)		0615	RW	AV, 30615	10	P	Fan setting	Pressure setpoint extract air fan low speed
VentSettings.S_EAFNormalSpeedPressure		0616	RW	AV, 30616	10	P	Fan setting	Pressure setpoint extract air fan normal speed
VentSettings.S_EAFHighSpeedPressure		0617	RW	AV, 30617	10	P	Fan setting	Pressure setpoint extract air fan high speed
VentSettings.S_SAFLowSpeedAirFlow(0)		0618	RW	AV, 30618	10	Q	Fan setting	Flow setpoint supply air fan low speed
VentSettings.S_SAFNormalSpeedAirFlow		0619	RW	AV, 30619	10	Q	Fan setting	Flow setpoint supply air fan normal speed
VentSettings.S_SAFHighSpeedAirFlow		0620	RW	AV, 30620	10	Q	Fan setting	Flow setpoint supply air fan high speed
VentSettings.S_EAFLowSpeedAirFlow(0)		0621	RW	AV, 30621	10	Q	Fan setting	Flow setpoint extract air fan low speed
VentSettings.S_EAFNormalSpeedAirFlow		0622	RW	AV, 30622	10	Q	Fan setting	Flow setpoint extract air fan normal speed
VentSettings.S_EAFHighSpeedAirFlow		0623	RW	AV, 30623	10	Q	Fan setting	Flow setpoint extract air fan high speed
VentSettings.S_SAFLowSpeedOutput(0)		0624	RW	AV, 30624	10	%	Fan setting	Output signal supply air fan low speed if manual control
VentSettings.S_SAFNormalSpeedOutput		0625	RW	AV, 30625	10	%	Fan setting	Output signal supply air fan normal speed if manual control
VentSettings.S_SAFHighSpeedOutput		0626	RW	AV, 30626	10	%	Fan setting	Output signal supply air fan high speed if manual control
VentSettings.S_EAFLowSpeedOutput(0)		0627	RW	AV, 30627	10	%	Fan setting	Output signal extract air fan low speed if manual control
VentSettings.S_EAFNormalSpeedOutput		0628	RW	AV, 30628	10	%	Fan setting	Output signal extract air fan normal speed if manual control
VentSettings.S_EAFHighSpeedOutput		0629	RW	AV, 30629	10	%	Fan setting	Output signal extract air fan high speed if manual control
VentSettings.S_SAFLowSpeedPressureOffset		0630	RW	AV, 30630	10	P	Fan setting	Offset supply air fan low speed if pressure control
VentSettings.S_SAFHighSpeedPressureOffset		0631	RW	AV, 30631	10	P	Fan setting	Offset supply air fan high speed if pressure control
VentSettings.S_SAFLowSpeedAirFlowOffset		0632	RW	AV, 30632	10	Q	Fan setting	Offset supply air fan low speed if flow control
VentSettings.S_SAFHighSpeedAirFlowOffset		0633	RW	AV, 30633	10	Q	Fan setting	Offset supply air fan high speed if flow control

Signal name	Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_SAFLowSpeedOutputOffset	0634	RW	AV, 30634	10	%	Fan setting	Offset supply air fan low speed if manual control
VentSettings.S_SAFHighSpeedOutputOffset	0635	RW	AV, 30635	10	%	Fan setting	Offset supply air fan high speed if manual control
VentSettings.S_EAFLowSpeedPressureOffset	0636	RW	AV, 30636	10	P	Fan setting	Offset extract air fan low speed if pressure control
VentSettings.S_EAFHighSpeedPressureOffset	0637	RW	AV, 30637	10	P	Fan setting	Offset extract air fan high speed if pressure control
VentSettings.S_EAFLowSpeedAirFlowOffset	0638	RW	AV, 30638	10	Q	Fan setting	Offset extract air fan low speed if flow control
VentSettings.S_EAFHighSpeedAirFlowOffset	0639	RW	AV, 30639	10	Q	Fan setting	Offset extract air fan high speed if flow control
VentSettings.S_EAFLowSpeedOutputOffset	0640	RW	AV, 30640	10	%	Fan setting	Offset extract air fan low speed if manual control
VentSettings.S_EAFHighSpeedOutputOffset	0641	RW	AV, 30641	10	%	Fan setting	Offset extract air fan high speed if manual control
VentSettings.S_SAFModeFreeCool	0642	RW	MSV, 30642	1		Operation override	Selected speed in free cooling mode supply air fan: Modbus 0=Off/Auto, normal setpoint 1=Manual setpoint 2=Manual output 3=Low speed setpoint 4=Normal speed setpoint 5=High speed setpoint Bacnet +1 offset for corresponding Modbus
VentSettings.S_SAFManSetpFreeCool	0643	RW	AV, 30643	10	P/Q	Operation override	Manual setpoint in free cooling mode supply air fan
VentSettings.S_SAFManOutFreeCool	0644	RW	AV, 30644	10	%	Operation override	Manual output in free cooling mode supply air fan
VentSettings.S_SAFModeFire	0645	RW	MSV, 30645	1		Operation override	Selected speed in fire mode supply air fan: (See signal list for SAFModeFreeCool)
VentSettings.S_SAFManSetpFire	0646	RW	AV, 30646	10	P/Q	Operation override	Manual setpoint in fire mode supply air fan
VentSettings.S_SAFManOutFire	0647	RW	AV, 30647	10	%	Operation override	Manual output in fire mode supply air fan
VentSettings.S_SAFModeSmoke	0648	RW	MSV, 30648	1		Operation override	Selected speed in smoke mode supply air fan: (See signal list for SAFModeFreeCool)

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_SAFManSetpSmoke		0649	RW	AV, 30649	10	P/Q	Operation override	Manual setpoint in smoke mode supply air fan
VentSettings.S_SAFManOutSmoke		0650	RW	AV, 30650	10	%	Operation override	Manual output in smoke mode supply air fan
VentSettings.S_SAFModeRecirculation		0651	RW	MSV, 30651	1		Operation override	Selected speed in recirculation mode supply air fan: (See signal list for SAFModeFreeCool)
VentSettings.S_SAFManSetpRecirculation		0652	RW	AV, 30652	10	P/Q	Operation override	Manual setpoint in recirculation mode supply air fan
VentSettings.S_SAFManOutRecirculation		0653	RW	AV, 30653	10	%	Operation override	Manual output in recirculation mode supply air fan
VentSettings.S_EAFModeFreeCool		0654	RW	MSV, 30654	1		Operation override	Selected speed in freecool mode extract air fan: (See signal list for SAFModeFreeCool)
VentSettings.S_EAFManSetpFreeCool		0655	RW	AV, 30655	10	P/Q	Operation override	Manual setpoint in freecool mode extract air fan
VentSettings.S_EAFManOutFreeCool		0656	RW	AV, 30656	10	%	Operation override	Manual output in freecool mode extract air fan
VentSettings.S_EAFModeFire		0657	RW	MSV, 30657	1		Operation override	Selected speed in fire mode extract air fan: (See signal list for SAFModeFreeCool)
VentSettings.S_EAFManSetpFire		0658	RW	AV, 30658	10	P/Q	Operation override	Manual setpoint in fire mode extract air fan
VentSettings.S_EAFManOutFire		0659	RW	AV, 30659	10	%	Operation override	Manual output in fire mode extract air fan
VentSettings.S_EAFModeSmoke		0660	RW	MSV, 30660	1		Operation override	Selected speed in smoke mode extract air fan: (See signal list for SAFModeFreeCool)
VentSettings.S_EAFManSetpSmoke		0661	RW	AV, 30661	10	P/Q	Operation override	Manual setpoint in smoke mode extract air fan
VentSettings.S_EAFManOutSmoke		0662	RW	AV, 30662	10	%	Operation override	Manual output in smoke mode extract air fan
VentSettings.S_EAFModeRecirculation		0663	RW	MSV, 30663	1		Operation override	Selected speed in recirculation mode extract air fan: (See signal list for SAFModeFreeCool)
VentSettings.S_EAFManSetpRecirculation		0664	RW	AV, 30664	10	P/Q	Operation override	Manual setpoint in recirculation mode extract air fan
VentSettings.S_EAFManOutRecirculation		0665	RW	AV, 30665	10	%	Operation override	Manual output in recirculation mode extract air fan
VentSettings.S_EAFFrequencyFact		0666	RW	AV, 30666	10		Fan setting	Flow slave factor extract air fan if fan control type: Supply air pressure with extract air flow slave
VentSettings.S_ExtractPID_Pband		0667	RW	AV, 30667	10		PID setting	P-band extract air temperature

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_ExtractPID_Itime		0668	RW	AV, 30668	1		PID setting	I-time extract air temperature
VentSettings.S_SAFPID_Pband		0669	RW	AV, 30669	10		PID setting	P-band pressure supply air fan
VentSettings.S_SAFPID_Itime		0670	RW	AV, 30670	1		PID setting	I-time pressure supply air fan
VentSettings.S_EAFPID_Pband		0671	RW	AV, 30671	10		PID setting	P-band pressure extract air fan
VentSettings.S_EAFPID_Itime		0672	RW	AV, 30672	1		PID setting	I-time pressure extract air fan
VentSettings.S_FrostPID1_PBand(0)		0673	RW	AV, 30673	10		PID setting	P-band freeze protection 1
VentSettings.S_FrostPID1_ITime(0)		0674	RW	AV, 30674	1		PID setting	I-time freeze protection 1
VentSettings.S_FrostPID2_Pband		0675	RW	AV, 30675	10		PID setting	P-band freeze protection 2
VentSettings.S_FrostPID2_ITime		0676	RW	AV, 30676	1		PID setting	I-time freeze protection 2
VentSettings.S_FrostPID3_Pband		0677	RW	AV, 30677	10		PID setting	P-band freeze protection 3
VentSettings.S_FrostPID3_ITime		0678	RW	AV, 30678	1		PID setting	I-time freeze protection 3
VentSettings.S_CO2PID_Pband		0679	RW	AV, 30679	10		PID setting	P-band CO ₂
VentSettings.S_CO2PID_Itime		0680	RW	AV, 30680	1		PID setting	I-time CO ₂
VentSettings.S_RoomPID_Pband		0681	RW	AV, 30681	10		PID setting	P-band room temperature
VentSettings.S_RoomPID_Itime		0682	RW	AV, 30682	1		PID setting	I-time room temperature
VentSettings.S_DeIcePID_Pband		0683	RW	AV, 30683	10		PID setting	P-band defrosting
VentSettings.S_DeIcePID_Itime		0684	RW	AV, 30684	1		PID setting	I-time defrosting
VentSettings.S_HumidityPID_Pband		0685	RW	AV, 30685	10		PID setting	P-band humidity control
VentSettings.S_HumidityPID_Itime		0686	RW	AV, 30686	1		PID setting	I-time humidity control
VentSettings.S_ExtraPID_Pband		0687	RW	AV, 30687	10		PID setting	P-band extra controller
VentSettings.S_ExtraPID_Itime		0688	RW	AV, 30688	1		PID setting	I-time extra controller
VentSettings.S_SAFAirFlowPID_Pband		0689	RW	AV, 30689	10		PID setting	P-band flow supply air fan

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_SAFPID_Itime		0690	RW	AV, 30690	1		PID setting	I-time flow supply air fan
VentSettings.S_EAFAirFlowPID_Pband		0691	RW	AV, 30691	10		PID setting	P-band flow extract air fan
VentSettings.S_EAFPID_Itime		0692	RW	AV, 30692	1		PID setting	I-time flow extract air fan
VentSettings.S_SeqY1PID_Pband		0693	RW	AV, 30693	10		PID setting	P-band sequence-A
VentSettings.S_SeqY1PID_ITime		0694	RW	AV, 30694	1		PID setting	I-time sequence-A
VentSettings.S_SeqY2PID_Pband		0695	RW	AV, 30695	10		PID setting	P-band sequence-B
VentSettings.S_SeqY2PID_ITime		0696	RW	AV, 30696	1		PID setting	I-time sequence-B
VentSettings.S_SeqY3PID_Pband		0697	RW	AV, 30697	10		PID setting	P-band sequence-C
VentSettings.S_SeqY3PID_ITime		0698	RW	AV, 30698	1		PID setting	I-time sequence-C
VentSettings.S_SeqY4PID_Pband		0699	RW	AV, 30699	10		PID setting	P-band sequence-D
VentSettings.S_SeqY4PID_ITime		0700	RW	AV, 30700	1		PID setting	I-time sequence-D
VentSettings.S_SeqY5PID_Pband		0701	RW	AV, 30701	10		PID setting	P-band sequence-E
VentSettings.S_SeqY5PID_ITime		0702	RW	AV, 30702	1		PID setting	I-time sequence-E
VentSettings.S_SeqY6PID_Pband		0703	RW	AV, 30703	10		PID setting	P-band sequence-F
VentSettings.S_SeqY6PID_ITime		0704	RW	AV, 30704	1		PID setting	I-time sequence-F
VentSettings.S_SeqY7PID_Pband		0705	RW	AV, 30705	10		PID setting	P-band sequence-G
VentSettings.S_SeqY7PID_ITime		0706	RW	AV, 30706	1		PID setting	I-time sequence-G
VentSettings.S_SeqY8PID_Pband		0707	RW	AV, 30707	10		PID setting	P-band sequence-H
VentSettings.S_SeqY8PID_ITime		0708	RW	AV, 30708	1		PID setting	I-time sequence-H
VentSettings.S_SeqY9PID_Pband		0709	RW	AV, 30709	10		PID setting	P-band sequence-I
VentSettings.S_SeqY9PID_ITime		0710	RW	AV, 30710	1		PID setting	I-time sequence-I
VentSettings.S_SeqY10PID_Pband		0711	RW	AV, 30711	10		PID setting	P-band sequence-J

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_SeqY10PID_ITime		0712	RW	AV, 30712	1		PID setting	I-time sequence-J
VentSettings.S_HumidityPID_Select		0713	RW	MSV, 30713	1		Operation override	Control mode humidity control: Modbus 0=Off 1=Manual 2=Auto Bacnet +1 offset for corresponding Modbus
VentSettings.S_HumidityPID_ManSet		0714	RW	AV, 30714	10		Operation override	Control signal humidity control if manual mode
VentSettings.S_ExtraPID_Select		0715	RW	MSV, 30715	1		Operation override	Control mode extra controller: (See signal list for HumidityPID_Select)
VentSettings.S_ExtraPID_ManSet		0716	RW	AV, 30716	10		Operation override	Control signal extra controller if manual mode
VentSettings.S_SeqY1PID_Select		0717	RW	MSV, 30717	1		Operation override	Control mode SEQ-A: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY1PID_ManSet		0718	RW	AV, 30718	10		Operation override	Control signal SEQ-A if manual mode
VentSettings.S_SeqY2PID_Select		0719	RW	MSV, 30719	1		Operation override	Control mode SEQ-B: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY2PID_ManSet		0720	RW	AV, 30720	10		Operation override	Control signal SEQ-B if manual mode
VentSettings.S_SeqY3PID_Select		0721	RW	MSV, 30721	1		Operation override	Control mode SEQ-C: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY3PID_ManSet		0722	RW	AV, 30722	10		Operation override	Control signal SEQ-C if manual mode
VentSettings.S_SeqY4PID_Select		0723	RW	MSV, 30723	1		Operation override	Control mode SEQ-D: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY4PID_ManSet		0724	RW	AV, 30724	10		Operation override	Control signal SEQ-D if manual mode
VentSettings.S_SeqY5PID_Select		0725	RW	MSV, 30725	1		Operation override	Control mode SEQ-E: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY5PID_ManSet		0726	RW	AV, 30726	10		Operation override	Control signal SEQ-E if manual mode

Signal name	Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_SeqY6PID_Select	0727	RW	MSV, 30727	1		Operation override	Control mode SEQ-F: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY6PID_ManSet	0728	RW	AV, 30728	10		Operation override	Control signal SEQ-F if manual mode
VentSettings.S_SeqY7PID_Select	0729	RW	MSV, 30729	1		Operation override	Control mode SEQ-G: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY7PID_ManSet	0730	RW	AV, 30730	10		Operation override	Control signal SEQ-G if manual mode
VentSettings.S_SeqY8PID_Select	0731	RW	MSV, 30731	1		Operation override	Control mode SEQ-H: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY8PID_ManSet	0732	RW	AV, 30732	10		Operation override	Control signal SEQ-H if manual mode
VentSettings.S_SeqY9PID_Select	0733	RW	MSV, 30733	1		Operation override	Control mode SEQ-I: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY9PID_ManSet	0734	RW	AV, 30734	10		Operation override	Control signal SEQ-I if manual mode
VentSettings.S_SeqY10PID_Select	0735	RW	MSV, 30735	1		Operation override	Control mode SEQ-J: (See signal list for HumidityPID_Select)
VentSettings.S_SeqY10PID_ManSet	0736	RW	AV, 30736	10		Operation override	Control signal SEQ-J if manual mode
VentSettings.S_FreeCoolDayLimit	0737	RW	AV, 30737	10	T	Free cooling	Outdoor temperature min limit during day to allow start of free cooling
VentSettings.S_FreeCoolHighLimit	0738	RW	AV, 30738	10	T	Free cooling	Outdoor temperature max limit during night to stop free cooling
VentSettings.S_FreeCoolLowLimit	0739	RW	AV, 30739	10	T	Free cooling	Outdoor temperature min limit during night to stop free cooling
VentSettings.S_FreeCoolRoomLimit	0740	RW	AV, 30740	10	T	Free cooling	Room temperature min limit during night to stop free cooling
VentSettings.S_FreeCoolStartTime	0741	RW	AV, 30741	1		Free cooling	Start hour free cooling (00-24)
VentSettings.S_FreeCoolStopTime	0742	RW	AV, 30742	1		Free cooling	Stop hour free cooling (00-24)
VentSettings.S_FreeCoolHeatBlockTime	0743	RW	AV, 30743	1	min	Free cooling	Time to block heat output after free cooling
VentSettings.S_CO2StartLimit	0744	RW	AV, 30744	10	ppm	CO ₂	Start limit CO ₂ fan start/stop function

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_CO2DemandDiff		0745	RW	AV, 30745	10	ppm	CO ₂	Hysteresis to stop CO ₂ fan start/stop function
VentSettings.S_CO2Setpoint		0746	RW	AV, 30746	10	ppm	CO ₂	Setpoint CO ₂ mixing damper function
VentSettings.S_CO2MinTime		0747	RW	AV, 30747	1	min	CO ₂	Min run time CO ₂ fan start/stop function
VentSettings.S_NeedControl		0748	RW	AV, 30748	1		Support control	Enable support control if the unit is stopped
VentSettings.S_NeedHeatStart		0749	RW	AV, 30749	10	T	Support control	Room temperature to start the unit if support heating is active
VentSettings.S_NeedHeatStop		0750	RW	AV, 30750	10	T	Support control	Room temperature to stop the unit if support heating is active
VentSettings.S_NeedCoolStart		0751	RW	AV, 30751	10	T	Support control	Room temperature to start the unit if support cooling is active
VentSettings.S_NeedCoolStop		0752	RW	AV, 30752	10	T	Support control	Room temperature for stop the unit if support cooling is active
VentSettings.S_NeedMinTime		0753	RW	AV, 30753	1	min	Support control	Min run time support control
VentSettings.S_FireDampersAutoMode		0754	RW	MSV, 30754	1	-	Operation override	Running mode fire damper: Modbus 0=Close 1=Open 2=Auto Bacnet +1 offset for corresponding Modbus
VentSettings.S_DeIcingSetpoint		0755	RW	AV, 30756	10	T	Unit setting	Setpoint temperature defrosting
VentSettings.S_DeIcingHyst		0756	RW	AV, 30757	10	T	Unit setting	Hysteresis to stop defrosting
VentSettings.S_DeIcingMinTime		0757	RW	AV, 30758	1		Unit setting	Min run time defrosting
VentSettings.S_DeIcingSAFTempStop		0758	RW	AV, 30758	10	T	Unit setting	Outdoor temperature min limit to stop supply air fan when defrosting
VentSettings.S_HumiditySetpoint		0759	RW	AV, 30759	10	%R H	Humidity control	Setpoint humidity room/extract air

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_HumidityMaxDuct		0760	RW	AV, 30760	10	%RH	Humidity control	Max limit humidity supply air
VentSettings.S_HumidityHyst		0761	RW	AV, 30761	10	%RH	Humidity control	Hysteresis to start humidity control after stop max limitation
VentSettings.S_HumidityMaxDiff		0762	RW	AV, 30762	10	%RH	Alarm setting	Alarm limit deviation alarm humidity control
VentSettings.S_HumidityStartLimit		0763	RW	AV, 30763	10	%	Humidity control	Step start point humidity control
VentSettings.S_HumidityStopLimit		0764	RW	AV, 30764	10	%	Humidity control	Step stop point humidity control
VentSettings.S_RoomSetP		0765	RW	AV, 30765	10	T	Temperature setting	Setpoint room temperature if room temperature control
VentSettings.S_FrostProtSPRun(0)		0766	RW	AV, 30766	10	T	Alarm setting	Alarm limit freeze protection alarm 1
VentSettings.S_FrostProtSPStop(0)		0767	RW	AV, 30767	10	T	Unit setting	Setpoint freeze protection 1 if standby mode
VentSettings.S_FrostProtPGain(0)		0768	RW	AV, 30768	10	T	Unit setting	P-band freeze protection 1 if running mode (setpoint=alarm limit+P-band)
VentSettings.S_FrostProtSPRun(1)		0769	RW	AV, 30769	10		Alarm setting	Alarm limit freeze protection alarm 2
VentSettings.S_FrostProtSPStop(1)		0770	RW	AV, 30770	10		Unit setting	Setpoint freeze protection 2 if standby mode
VentSettings.S_FrostProtPGain(1)		0771	RW	AV, 30771	10		Unit setting	P-band freeze protection 2 if running mode (setpoint=alarm limit+P-band)
VentSettings.S_FrostProtSPRun(2)		0772	RW	AV, 30772	10		Alarm setting	Alarm limit freeze protection alarm 3
VentSettings.S_FrostProtSPStop(2)		0773	RW	AV, 30773	10		Unit setting	Setpoint freeze protection 3 if standby mode
VentSettings.S_FrostProtPGain(2)		0774	RW	AV, 30774	10		Unit setting	P-band freeze protection 3 if running mode (setpoint=alarm limit+P-band)
VentSettings.S_ExtraControllerSetP		0775	RW	AV, 30775	10	T	Extra controller	Setpoint extra controller
VentSettings.S_ExtraControllerMode		0776	RW	MSV, 30776	1		Extra controller	Control mode extra controller Modbus 0=Heating Controller 1=Cooling Controller

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
								Bacnet +1 offset for corresponding Modbus
VentSettings.S_SumAlarm1(0)		0777	RW	MSV, 30777	1		Unit setting	Setting for sum alarm 1 (alarm levels) Modbus 0=Off 1=A+B+C 2=A+B 3=B+C 4=A+C 5=A 6=B 7=C Bacnet +1 offset for corresponding Modbus
VentSettings.S_SumAlarm2		0778	RW	MSV, 30778	1		Unit setting	Setting for sum alarm 2 (alarm levels) (See signal list for SumAlarm1(0))
VentSettings.S_AlarmOutput		0779	RW	AV, 30779	1		Unit setting	Setting of alarm number used for universal alarm output Status: 0=Off 1=AlaPt(1)=Ala_MalfunctionSAF1 2=AlaPt(2)=Ala_MalfunctionSAF2 etc.
VentSettings.S_SupplyMaxDiff		0780	RW	AV, 30780	10	T	Alarm setting	Alarm limit deviation alarm supply air temperature
VentSettings.S_SupplyHighAlarmLimit		0781	RW	AV, 30781	10	T	Alarm setting	Alarm limit high supply air temperature
VentSettings.S_SupplyLowAlarmLimit		0782	RW	AV, 30782	10	T	Alarm setting	Alarm limit low supply air temperature
VentSettings.S_EfficiencyLowLimit		0783	RW	AV, 30783	10	%	Alarm setting	Alarm limit low efficiency exchanger
VentSettings.S_RoomHighLimit		0784	RW	AV, 30784	10	T	Alarm setting	Alarm limit high room temperature
VentSettings.S_RoomLowLimit		0785	RW	AV, 30785	10	T	Alarm setting	Alarm limit low room temperature

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_ExtractAirTempHigh		0786	RW	AV, 30786	10	T	Alarm setting	Alarm limit high extract air temperature
VentSettings.S_ExtractAirTempLow		0787	RW	AV, 30787	10	T	Alarm setting	Alarm limit low extract air temperature
VentSettings.S_SAFMaxDiffPressure		0788	RW	AV, 30788	10	P	Alarm setting	Alarm limit deviation alarm supply air fan
VentSettings.S_EAFMaxDiffPressure		0789	RW	AV, 30789	10	P	Alarm setting	Alarm limit deviation alarm extract air fan
VentSettings.S_RecircSetP		0790	RW	AV, 30790	10		Recirculation	Setpoint recirculation if temperature control
VentSettings.S_RecircTempControl		0791	RW	MSV, 30791	1		Recirculation	Supply air temperature control if recirculation: Modbus 0=No temperature control 1=Heating/cooling 2=Only heating 3=Only cooling Bacnet +1 offset for corresponding Modbus
VentSettings.S_RecircMaxRoomTemp		0792	RW	AV, 30792	10		Recirculation	If higher room temp when Recirculation run recirculation damper is closed and fresh air damper is open
VentSettings.S_RecircFreeCool		0793	RW	AV, 30793	1		Recirculation	Allow free cooling if recirculation
VentSettings.S_RecircSAFOffset		0794	RW	AV, 30794	10		Recirculation	Offset pressure/flow supply air fan if recirculation
VentSettings.S_RecircEAFOffset		0795	RW	AV, 30795	10		Recirculation	Offset pressure/flow extract air fan if recirculation (this is not used)
VentSettings.S_RecircSetPOffset		0796	RW	AV, 30796	10		Recirculation	Offset for recirculation setpoint
VentSettings.S_FilterAlarmTime		0797	RW	AV, 30797	1		Alarm setting	Time (in months) for alarm service interval counter
VentSettings.S_ExtraSensor1HighLimit(0)		0798	RW	AV, 30798	10	T	Alarm setting	Alarm limit high temperature extra sensor 1
VentSettings.S_ExtraSensor2HighLimit		0799	RW	AV, 30799	10	T	Alarm setting	Alarm limit high temperature extra sensor 2
VentSettings.S_ExtraSensor3HighLimit		0800	RW	AV, 30800	10	T	Alarm setting	Alarm limit high temperature extra sensor 3
VentSettings.S_ExtraSensor4HighLimit		0801	RW	AV, 30801	10	T	Alarm setting	Alarm limit high temperature extra sensor 4

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_ExtraSensor5HighLimit		0802	RW	AV, 30802	10	T	Alarm setting	Alarm limit high temperature extra sensor 5
VentSettings.S_ExtraSensor1LowLimit(0)		0803	RW	AV, 30803	10	T	Alarm setting	Alarm limit low temperature extra sensor 1
VentSettings.S_ExtraSensor2LowLimit		0804	RW	AV, 30804	10	T	Alarm setting	Alarm limit low temperature extra sensor 2
VentSettings.S_ExtraSensor3LowLimit		0805	RW	AV, 30805	10	T	Alarm setting	Alarm limit low temperature extra sensor 3
VentSettings.S_ExtraSensor4LowLimit		0806	RW	AV, 30806	10	T	Alarm setting	Alarm limit low temperature extra sensor 4
VentSettings.S_ExtraSensor5LowLimit		0807	RW	AV, 30807	10	T	Alarm setting	Alarm limit low temperature extra sensor 5
VentSettings.S_SelectedSensor1(0)		0808	RW	AV, 30808	1		Alarm setting	Select sensor 1 for high & low temperature selected sensor alarm 0 = Not active 1 = A_AI_OutDoorTemp
VentSettings.S_SelectedSensor1HighLimit(0)		0809	RW	AV, 30809	10		Alarm setting	Alarm limit high temperature selected sensor 1
VentSettings.S_SelectedSensor1LowLimit(0)		0810	RW	AV, 30810	10		Alarm setting	Alarm limit low temperature selected sensor 1
VentSettings.S_SelectedSensor2		0811	RW	AV, 30811	1		Alarm setting	Select sensor 2 for high & low temperature selected sensor alarm 0 = Not active 1 = A_AI_OutDoorTemp
VentSettings.S_SelectedSensor2HighLimit		0812	RW	AV, 30812	10		Alarm setting	Alarm limit high temperature selected sensor 2
VentSettings.S_SelectedSensor2LowLimit		0813	RW	AV, 30813	10		Alarm setting	Alarm limit low temperature selected sensor 2
VentSettings.S_SupplyPIDFreeze		0814	RW	MSV, 30814	1		Unit setting	Freeze supply temperature PID control
VentSettings.S_FanComp1X1(0)		0815	RW	AV, 30815	10		Fan compensation curve	Curve 1 point 1 sensor value
VentSettings.S_FanComp1Y1(0)		0816	RW	AV, 30816	10		Fan compensation curve	Curve 1 point 1 setpoint compensation

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_FanComp1X2(0)		0817	RW	AV, 30817	10		Fan compensation curve	Curve 1 point 2 sensor value
VentSettings.S_FanComp1Y2(0)		0818	RW	AV, 30818	10		Fan compensation curve	Curve 1 point 2 setpoint compensation
VentSettings.S_FanComp1X3(0)		0819	RW	AV, 30819	10		Fan compensation curve	Curve 1 point 3 sensor value
VentSettings.S_FanComp1Y3(0)		0820	RW	AV, 30820	10		Fan compensation curve	Curve 1 point 3 setpoint compensation
VentSettings.S_FanComp2X1		0821	RW	AV, 30821	10		Fan compensation curve	Curve 2 point 1 sensor value
VentSettings.S_FanComp2Y1		0822	RW	AV, 30822	10		Fan compensation curve	Curve 2 point 1 setpoint compensation
VentSettings.S_FanComp2X2		0823	RW	AV, 30823	10		Fan compensation curve	Curve 2 point 2 sensor value
VentSettings.S_FanComp2Y2		0824	RW	AV, 30824	10		Fan compensation curve	Curve 2 point 2 setpoint compensation
VentSettings.S_FanComp2X3		0825	RW	AV, 30825	10		Fan compensation curve	Curve 2 point 3 sensor value
VentSettings.S_FanComp2Y3		0826	RW	AV, 30826	10		Fan compensation curve	Curve 2 point 3 setpoint compensation
VentSettings.S_FanComp3X1		0827	RW	AV, 30827	10		Fan compensation curve	Curve 3 point 1 sensor value
VentSettings.S_FanComp3Y1		0828	RW	AV, 30828	10		Fan compensation curve	Curve 3 point 1 setpoint compensation
VentSettings.S_FanComp3X2		0829	RW	AV, 30829	10		Fan compensation curve	Curve 3 point 2 sensor value
VentSettings.S_FanComp3Y2		0830	RW	AV, 30830	10		Fan compensation curve	Curve 3 point 2 setpoint compensation
VentSettings.S_FanComp3X3		0831	RW	AV, 30831	10		Fan compensation curve	Curve 3 point 3 sensor value

Signal name		Modbus address	RW	Bacnet	Scale factor	Unit	Function	Description
VentSettings.S_FanComp3Y3		0832	RW	AV, 30832	10		Fan compensation curve	Curve 3 point 3 setpoint compensation
VentSettings.S_NeutralZone		0833	RW	AV, 30833	10	T	Unit setting	Neutral zone around supply setpoint before heating and cooling.
VentSettings.S_FreeCoolSAFOffset		0834	RW	AV, 30834	10	P/Q	Free cooling	Setpoint offset supply air fan if free cooling
VentSettings.S_FreeCoolEAFOffset		0835	RW	AV, 30835	10	P/Q	Free cooling	Setpoint offset extract air fan if free cooling
VentSettings.S_FilterGuard1Limit_X1(0)		0836	RW	AV, 30836	10	Q	Alarm setting	Limit X1 filter guard supply
VentSettings.S_FilterGuard1Limit_Y1		0837	RW	AV, 30837	10	P	Alarm setting	Limit Y1 filter guard supply
VentSettings.S_FilterGuard1Limit_X2		0838	RW	AV, 30838	10	Q	Alarm setting	Limit X2 filter guard supply
VentSettings.S_FilterGuard1Limit_Y2		0839	RW	AV, 30839	10	P	Alarm setting	Limit Y2 filter guard supply
VentSettings.S_FilterGuard2Limit_X1(0)		0840	RW	AV, 30840	10	Q	Alarm setting	Limit X1 filter guard extract
VentSettings.S_FilterGuard2Limit_Y1		0841	RW	AV, 30841	10	P	Alarm setting	Limit Y1 filter guard extract
VentSettings.S_FilterGuard2Limit_X2		0842	RW	AV, 30842	10	Q	Alarm setting	Limit X2 filter guard extract
VentSettings.S_FilterGuard2Limit_Y2		0843	RW	AV, 30843	10	P	Alarm setting	Limit Y2 filter guard extract

Chapter 6 Input Status Register (1x)

Signal name		Modbus address	RW	Bacnet	Function	Description
TimePro.TC_FanLowSpeed		0000	R	BV, 20000	Time channel	Low speed active
TimePro.TC_FanNormalSpeed		0001	R	BV, 20001	Time channel	Normal speed active
TimePro.TC_FanHighSpeed		0002	R	BV, 20002	Time channel	High speed active
TimePro.TC_Extra1		0003	R	BV, 20003	Time channel	Extra time channel 1 active
TimePro.TC_Extra2		0004	R	BV, 20004	Time channel	Extra time channel 2 active
TimePro.TC_Extra3		0005	R	BV, 20005	Time channel	Extra time channel 3 active
TimePro.TC_Extra4		0006	R	BV, 20006	Time channel	Extra time channel 4 active
VentActual.A_SumAlarm		0007	R	BV, 20007	Alarm point	Sum alarm: Unacknowledged A-, B- or C-alarm
VentActual.A_SumAlarmA(0)		0008	R	BV, 20008	Alarm point	Sum alarm: Unacknowledged A-alarm
VentActual.A_SumAlarmB		0009	R	BV, 20009	Alarm point	Sum alarm: Unacknowledged B-alarm
VentActual.A_SumAlarmC		0010	R	BV, 20010	Alarm point	Sum alarm: Unacknowledged C-alarm
VentActual.A_AlaPt(1)		0011	R	BV, 20011	Alarm point	Malfunction supply air fan 1
VentActual.A_AlaPt(2)		0012	R	BV, 20012	Alarm point	Malfunction supply air fan 2
VentActual.A_AlaPt(3)		0013	R	BV, 20013	Alarm point	Malfunction supply air fan 3
VentActual.A_AlaPt(4)		0014	R	BV, 20014	Alarm point	Malfunction supply air fan 4

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(5)		0015	R	BV, 20015	Alarm point	Malfunction supply air fan 5
VentActual.A_AlaPt(6)		0016	R	BV, 20016	Alarm point	Malfunction extract air fan 1
VentActual.A_AlaPt(7)		0017	R	BV, 20017	Alarm point	Malfunction extract air fan 2
VentActual.A_AlaPt(8)		0018	R	BV, 20018	Alarm point	Malfunction extract air fan 3
VentActual.A_AlaPt(9)		0019	R	BV, 20019	Alarm point	Malfunction extract air fan 4
VentActual.A_AlaPt(10)		0020	R	BV, 20020	Alarm point	Malfunction extract air fan 5
VentActual.A_AlaPt(11)		0021	R	BV, 20021	Alarm point	Alarm supply air fan 1
VentActual.A_AlaPt(12)		0022	R	BV, 20022	Alarm point	Alarm supply air fan 2
VentActual.A_AlaPt(13)		0023	R	BV, 20023	Alarm point	Alarm supply air fan 3
VentActual.A_AlaPt(14)		0024	R	BV, 20024	Alarm point	Alarm supply air fan 4
VentActual.A_AlaPt(15)		0025	R	BV, 20025	Alarm point	Alarm supply air fan 5
VentActual.A_AlaPt(16)		0026	R	BV, 20026	Alarm point	Alarm extract air fan 1
VentActual.A_AlaPt(17)		0027	R	BV, 20027	Alarm point	Alarm extract air fan 2
VentActual.A_AlaPt(18)		0028	R	BV, 20028	Alarm point	Alarm extract air fan 3
VentActual.A_AlaPt(19)		0029	R	BV, 20029	Alarm point	Alarm extract air fan 4
VentActual.A_AlaPt(20)		0030	R	BV, 20030	Alarm point	Alarm extract air fan 5
VentActual.A_AlaPt(21)		0031	R	BV, 20031	Alarm point	Warning supply air fan 1
VentActual.A_AlaPt(22)		0032	R	BV, 20032	Alarm point	Warning supply air fan 2
VentActual.A_AlaPt(23)		0033	R	BV, 20033	Alarm point	Warning supply air fan 3

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(24)		0034	R	BV, 20034	Alarm point	Warning supply air fan 4
VentActual.A_AlaPt(25)		0035	R	BV, 20035	Alarm point	Warning supply air fan 5
VentActual.A_AlaPt(26)		0036	R	BV, 20036	Alarm point	Warning extract air fan 1
VentActual.A_AlaPt(27)		0037	R	BV, 20037	Alarm point	Warning extract air fan 2
VentActual.A_AlaPt(28)		0038	R	BV, 20038	Alarm point	Warning extract air fan 3
VentActual.A_AlaPt(29)		0039	R	BV, 20039	Alarm point	Warning extract air fan 4
VentActual.A_AlaPt(30)		0040	R	BV, 20040	Alarm point	Warning extract air fan 5
VentActual.A_AlaPt(31)		0041	R	BV, 20041	Alarm point	External operation supply air fan
VentActual.A_AlaPt(32)		0042	R	BV, 20042	Alarm point	External operation extract air fan
VentActual.A_AlaPt(33)		0043	R	BV, 20043	Alarm point	Extra fan motor 1 running
VentActual.A_AlaPt(34)		0044	R	BV, 20044	Alarm point	Extra fan motor 2 running
VentActual.A_AlaPt(35)		0045	R	BV, 20045	Alarm point	Malfunction pump heater
VentActual.A_AlaPt(36)		0046	R	BV, 20046	Alarm point	Malfunction pump cooler
VentActual.A_AlaPt(37)		0047	R	BV, 20047	Alarm point	Malfunction pump exchanger
VentActual.A_AlaPt(38)		0048	R	BV, 20048	Alarm point	Malfunction fire damper
VentActual.A_AlaPt(39)		0049	R	BV, 20049	Alarm point	Malfunction damper
VentActual.A_AlaPt(40)		0050	R	BV, 20050	Alarm point	Malfunction extra fan motor 1
VentActual.A_AlaPt(41)		0051	R	BV, 20051	Alarm point	Malfunction extra fan motor 2
VentActual.A_AlaPt(42)		0052	R	BV, 20052	Alarm point	Malfunction adiabatic cooling

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(43)		0053	R	BV, 20053	Alarm point	Malfunction pump sequence-A
VentActual.A_AlaPt(44)		0054	R	BV, 20054	Alarm point	Malfunction pump sequence-B
VentActual.A_AlaPt(45)		0055	R	BV, 20055	Alarm point	Malfunction pump sequence-C
VentActual.A_AlaPt(46)		0056	R	BV, 20056	Alarm point	Malfunction pump sequence-D
VentActual.A_AlaPt(47)		0057	R	BV, 20057	Alarm point	Malfunction pump sequence-E
VentActual.A_AlaPt(48)		0058	R	BV, 20058	Alarm point	Malfunction pump sequence-F
VentActual.A_AlaPt(49)		0059	R	BV, 20059	Alarm point	Malfunction pump sequence-G
VentActual.A_AlaPt(50)		0060	R	BV, 20060	Alarm point	Malfunction pump sequence-H
VentActual.A_AlaPt(51)		0061	R	BV, 20061	Alarm point	Malfunction pump sequence-I
VentActual.A_AlaPt(52)		0062	R	BV, 20062	Alarm point	Malfunction pump sequence-J
VentActual.A_AlaPt(53)		0063	R	BV, 20063	Alarm point	Filter alarm supply air
VentActual.A_AlaPt(54)		0064	R	BV, 20064	Alarm point	Filter alarm extract air
VentActual.A_AlaPt(55)		0065	R	BV, 20065	Alarm point	Alarm low air flow
VentActual.A_AlaPt(56)		0066	R	BV, 20066	Alarm point	Freeze protection guard
VentActual.A_AlaPt(57)		0067	R	BV, 20067	Alarm point	Defrosting guard exchanger
VentActual.A_AlaPt(58)		0068	R	BV, 20068	Alarm point	Fire alarm
VentActual.A_AlaPt(59)		0069	R	BV, 20069	Alarm point	Smoke alarm
VentActual.A_AlaPt(60)		0070	R	BV, 20070	Alarm point	External stop
VentActual.A_AlaPt(61)		0071	R	BV, 20071	Alarm point	External alarm

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlPt(62)		0072	R	BV, 20072	Alarm point	Service stop
VentActual.A_AlPt(63)		0073	R	BV, 20073	Alarm point	Electric heater is overheated
VentActual.A_AlPt(64)		0074	R	BV, 20074	Alarm point	Warning freeze protection
VentActual.A_AlPt(65)		0075	R	BV, 20075	Alarm point	Low efficiency exchanger
VentActual.A_AlPt(66)		0076	R	BV, 20076	Alarm point	Defrosting alarm
VentActual.A_AlPt(67)		0077	R	BV, 20077	Alarm point	Rotary exchanger alarm
VentActual.A_AlPt(68)		0078	R	BV, 20078	Alarm point	Extra alarm 1
VentActual.A_AlPt(69)		0079	R	BV, 20079	Alarm point	Extra alarm 2
VentActual.A_AlPt(70)		0080	R	BV, 20080	Alarm point	Extra alarm 3
VentActual.A_AlPt(71)		0081	R	BV, 20081	Alarm point	Extra alarm 4
VentActual.A_AlPt(72)		0082	R	BV, 20082	Alarm point	Extra alarm 5
VentActual.A_AlPt(73)		0083	R	BV, 20083	Alarm point	Extra alarm 6
VentActual.A_AlPt(74)		0084	R	BV, 20084	Alarm point	Extra alarm 7
VentActual.A_AlPt(75)		0085	R	BV, 20085	Alarm point	Extra alarm 8
VentActual.A_AlPt(76)		0086	R	BV, 20086	Alarm point	Extra alarm 9
VentActual.A_AlPt(77)		0087	R	BV, 20087	Alarm point	Extra alarm 10
VentActual.A_AlPt(78)		0088	R	BV, 20088	Alarm point	Internal battery error
VentActual.A_AlPt(79)		0089	R	BV, 20089	Alarm point	Alarm service interval
VentActual.A_AlPt(80)		0090	R	BV, 20090	Alarm point	Restart blocked after power on

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(81)		0091	R	BV, 20091	Alarm point	Deviation alarm supply air temperature
VentActual.A_AlaPt(82)		0092	R	BV, 20092	Alarm point	Deviation alarm supply air fan
VentActual.A_AlaPt(83)		0093	R	BV, 20093	Alarm point	Deviation alarm extract air fan
VentActual.A_AlaPt(84)		0094	R	BV, 20094	Alarm point	Deviation alarm humidity control
VentActual.A_AlaPt(85)		0095	R	BV, 20095	Alarm point	Deviation alarm extra controller
VentActual.A_AlaPt(86)		0096	R	BV, 20096	Alarm point	High supply air temperature
VentActual.A_AlaPt(87)		0097	R	BV, 20097	Alarm point	Low supply air temperature
VentActual.A_AlaPt(88)		0098	R		Alarm point	Supply air temperature max limit
VentActual.A_AlaPt(89)		0099	R		Alarm point	Supply air temperature min limit
VentActual.A_AlaPt(90)		0100	R		Alarm point	High room temperature
VentActual.A_AlaPt(91)		0101	R		Alarm point	Low room temperature
VentActual.A_AlaPt(92)		0102	R		Alarm point	High extract air temperature
VentActual.A_AlaPt(93)		0103	R		Alarm point	Low extract air temperature
VentActual.A_AlaPt(94)		0104	R		Alarm point	High outdoor air temperature
VentActual.A_AlaPt(95)		0105	R		Alarm point	Low outdoor air temperature
VentActual.A_AlaPt(96)		0106	R		Alarm point	Freeze protection alarm 1
VentActual.A_AlaPt(97)		0107	R		Alarm point	Freeze protection alarm 2
VentActual.A_AlaPt(98)		0108	R		Alarm point	Freeze protection alarm 3
VentActual.A_AlaPt(99)		0109	R		Alarm point	High temperature extra sensor 1

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlPt(100)		0110	R		Alarm point	Low temperature extra sensor 1
VentActual.A_AlPt(101)		0111	R		Alarm point	High temperature extra sensor 2
VentActual.A_AlPt(102)		0112	R		Alarm point	Low temperature extra sensor 2
VentActual.A_AlPt(103)		0113	R		Alarm point	High temperature extra sensor 3
VentActual.A_AlPt(104)		0114	R		Alarm point	Low temperature extra sensor 3
VentActual.A_AlPt(105)		0115	R		Alarm point	High temperature extra sensor 4
VentActual.A_AlPt(106)		0116	R		Alarm point	Low temperature extra sensor 4
VentActual.A_AlPt(107)		0117	R		Alarm point	High temperature extra sensor 5
VentActual.A_AlPt(108)		0118	R		Alarm point	Low temperature extra sensor 5
VentActual.A_AlPt(109)		0119	R	BV, 20119	Alarm point	High temperature selected sensor 1
VentActual.A_AlPt(110)		0120	R	BV, 20120	Alarm point	Low temperature selected sensor 1
VentActual.A_AlPt(111)		0121	R	BV, 20121	Alarm point	High temperature selected sensor 2
VentActual.A_AlPt(112)		0122	R	BV, 20122	Alarm point	Low temperature selected sensor 2
VentActual.A_AlPt(113)		0123	R	BV, 20123	Alarm point	Manual operation air handling unit
VentActual.A_AlPt(114)		0124	R	BV, 20124	Alarm point	Manual operation supply air
VentActual.A_AlPt(115)		0125	R	BV, 20125	Alarm point	Manual operation supply air fan
VentActual.A_AlPt(116)		0126	R	BV, 20126	Alarm point	Manual operation extract air fan
VentActual.A_AlPt(117)		0127	R	BV, 20127	Alarm point	Manual operation heater
VentActual.A_AlPt(118)		0128	R	BV, 20128	Alarm point	Manual operation exchanger

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(119)		0129	R	BV, 20129	Alarm point	Manual operation cooler
VentActual.A_AlaPt(120)		0130	R	BV, 20130	Alarm point	Manual operation damper
VentActual.A_AlaPt(121)		0131	R	BV, 20131	Alarm point	Manual operation pump heater
VentActual.A_AlaPt(122)		0132	R	BV, 20132	Alarm point	Manual operation pump exchanger
VentActual.A_AlaPt(123)		0133	R	BV, 20133	Alarm point	Manual operation pump cooler
VentActual.A_AlaPt(124)		0134	R	BV, 20134	Alarm point	Manual operation damper recirculation
VentActual.A_AlaPt(125)		0135	R	BV, 20135	Alarm point	Manual operation damper outdoor air
VentActual.A_AlaPt(126)		0136	R	BV, 20136	Alarm point	Manual operation damper exhaust air
VentActual.A_AlaPt(127)		0137	R	BV, 20137	Alarm point	Manual operation fire damper
VentActual.A_AlaPt(128)		0138	R	BV, 20138	Alarm point	Manual control sequence-A
VentActual.A_AlaPt(129)		0139	R	BV, 20139	Alarm point	Manual control sequence-B
VentActual.A_AlaPt(130)		0140	R	BV, 20140	Alarm point	Manual control sequence-C
VentActual.A_AlaPt(131)		0141	R	BV, 20141	Alarm point	Manual control sequence-D
VentActual.A_AlaPt(132)		0142	R	BV, 20142	Alarm point	Manual control sequence-E
VentActual.A_AlaPt(133)		0143	R	BV, 20143	Alarm point	Manual control sequence-F
VentActual.A_AlaPt(134)		0144	R	BV, 20144	Alarm point	Manual control sequence-G
VentActual.A_AlaPt(135)		0145	R	BV, 20145	Alarm point	Manual control sequence-H
VentActual.A_AlaPt(136)		0146	R	BV, 20146	Alarm point	Manual control sequence-I
VentActual.A_AlaPt(137)		0147	R	BV, 20147	Alarm point	Manual control sequence-J

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(138)		0148	R	BV, 20148	Alarm point	Output in manual operation
VentActual.A_AlaPt(139)		0149	R	BV, 20149	Alarm point	Input in manual operation
VentActual.A_AlaPt(140)		0150	R	BV, 20150	Alarm point	Manual operation extra controller
VentActual.A_AlaPt(141)		0151	R	BV, 20151	Alarm point	Manual operation external fan motor 1
VentActual.A_AlaPt(142)		0152	R	BV, 20152	Alarm point	Manual operation external fan motor 2
VentActual.A_AlaPt(143)		0153	R	BV, 20153	Alarm point	Manual operation pretreatment
VentActual.A_AlaPt(144)		0154	R		Alarm point	Sensor error outdoor air temperature
VentActual.A_AlaPt(145)		0155	R		Alarm point	Sensor error intake air temperature
VentActual.A_AlaPt(146)		0156	R		Alarm point	Sensor error supply air temperature
VentActual.A_AlaPt(147)		0157	R		Alarm point	Sensor error exhaust air temperature
VentActual.A_AlaPt(148)		0158	R		Alarm point	Sensor error extract air temperature
VentActual.A_AlaPt(149)		0159	R		Alarm point	Sensor error room temperature 1
VentActual.A_AlaPt(150)		0160	R		Alarm point	Sensor error room temperature 2
VentActual.A_AlaPt(151)		0161	R		Alarm point	Sensor error room temperature 3
VentActual.A_AlaPt(152)		0162	R		Alarm point	Sensor error room temperature 4
VentActual.A_AlaPt(153)		0163	R		Alarm point	Sensor error pressure supply air
VentActual.A_AlaPt(154)		0164	R		Alarm point	Sensor error pressure extract air
VentActual.A_AlaPt(155)		0165	R		Alarm point	Sensor error flow supply air
VentActual.A_AlaPt(156)		0166	R		Alarm point	Sensor error flow extract air

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(157)		0167	R		Alarm point	Sensor error flow exchanger supply air
VentActual.A_AlaPt(158)		0168	R		Alarm point	Sensor error pressure exchanger extract air
VentActual.A_AlaPt(159)		0169	R		Alarm point	Sensor error defrosting temperature
VentActual.A_AlaPt(160)		0170	R		Alarm point	Sensor error freeze protection temperature 1
VentActual.A_AlaPt(161)		0171	R		Alarm point	Sensor error freeze protection temperature 2
VentActual.A_AlaPt(162)		0172	R		Alarm point	Sensor error freeze protection temperature 3
VentActual.A_AlaPt(163)		0173	R		Alarm point	Sensor error CO2 room/extract air
VentActual.A_AlaPt(164)		0174	R		Alarm point	Sensor error humidity room/extract air
VentActual.A_AlaPt(165)		0175	R		Alarm point	Sensor error humidity supply air
VentActual.A_AlaPt(166)		0176	R		Alarm point	Sensor error extra controller
VentActual.A_AlaPt(167)		0177	R		Alarm point	Signal error external control supply air fan
VentActual.A_AlaPt(168)		0178	R		Alarm point	Signal error external control extract air fan
VentActual.A_AlaPt(169)		0179	R		Alarm point	Sensor error humidity outdoor
VentActual.A_AlaPt(170)		0180	R		Alarm point	Sensor error extra sensor 1
VentActual.A_AlaPt(171)		0181	R		Alarm point	Sensor error extra sensor 2
VentActual.A_AlaPt(172)		0182	R		Alarm point	Sensor error extra sensor 3
VentActual.A_AlaPt(173)		0183	R		Alarm point	Sensor error extra sensor 4
VentActual.A_AlaPt(174)		0184	R		Alarm point	Sensor error extra sensor 5
VentActual.A_AlaPt(175)		0185	R		Alarm point	Sensor error external temperature setpoint

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_AlaPt(176)		0186	R		Alarm point	Signal error external flow setpoint
VentActual.A_AlaPt(177)		0187	R		Alarm point	Sensor error pressure filter supply air
VentActual.A_AlaPt(178)		0188	R		Alarm point	Sensor error pressure filter extract air
VentActual.A_AlaPt(179)		0189	R		Alarm point	Sensor error efficiency temperature exchanger
VentActual.A_AlaPt(180)		0190	R	BV, 20190	Alarm point	Fault communication device
VentActual.A_AlaPt(181)		0191	R	BV, 20191	Alarm point	Malfunction Extra Controller
VentActual.A_AlaPt(182)		0192	R	BV, 20192	Alarm point	Internal error
VentActual.A_AlaPt(183)		0193	R	BV, 20193	Alarm point	Smoke detector service
VentActual.A_AlaPt(184)		0194	R	BV, 20194	Alarm point	Smoke detector connection error
VentActual.A_DigitalInput(1)		0261	R	BV, 20261	Digital input	Actual value DI1
VentActual.A_DigitalInput(2)		0262	R	BV, 20262	Digital input	Actual value DI2
VentActual.A_DigitalInput(3)		0263	R	BV, 20263	Digital input	Actual value DI3
VentActual.A_DigitalInput(4)		0264	R	BV, 20264	Digital input	Actual value DI4
VentActual.A_DigitalInput(5)		0265	R	BV, 20265	Digital input	Actual value DI5
VentActual.A_DigitalInput(6)		0266	R	BV, 20266	Digital input	Actual value DI6
VentActual.A_DigitalInput(7)		0267	R	BV, 20267	Digital input	Actual value DI7
VentActual.A_DigitalInput(8)		0268	R	BV, 20268	Digital input	Actual value DI8
VentActual.A_DigitalInput(9)		0269	R	BV, 20269	Universal input	Actual value digital UI1
VentActual.A_DigitalInput(10)		0270	R	BV, 20270	Universal input	Actual value digital UI2

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_DigitalInput(11)		0271	R	BV, 20271	Universal input	Actual value digital UI3
VentActual.A_DigitalInput(12)		0272	R	BV, 20272	Universal input	Actual value digital UI4
VentActual.A_DigitalInputExp1(1)		0273	R	BV, 20273	Digital input	Actual value exp.unit 1 DI1
VentActual.A_DigitalInputExp1(2)		0274	R	BV, 20274	Digital input	Actual value exp.unit 1 DI2
VentActual.A_DigitalInputExp1(3)		0275	R	BV, 20275	Digital input	Actual value exp.unit 1 DI3
VentActual.A_DigitalInputExp1(4)		0276	R	BV, 20276	Digital input	Actual value exp.unit 1 DI4
VentActual.A_DigitalInputExp1(5)		0277	R	BV, 20277	Digital input	Actual value exp.unit 1 DI5
VentActual.A_DigitalInputExp1(6)		0278	R	BV, 20278	Digital input	Actual value exp.unit 1 DI6
VentActual.A_DigitalInputExp1(7)		0279	R	BV, 20279	Digital input	Actual value exp.unit 1 DI7
VentActual.A_DigitalInputExp1(8)		0280	R	BV, 20280	Digital input	Actual value exp.unit 1 DI8
VentActual.A_DigitalInputExp1(9)		0281	R	BV, 20281	Universal input	Actual value exp.unit 1 digital UI1
VentActual.A_DigitalInputExp1(10)		0282	R	BV, 20282	Universal input	Actual value exp.unit 1 digital UI2
VentActual.A_DigitalInputExp1(11)		0283	R	BV, 20283	Universal input	Actual value exp.unit 1 digital UI3
VentActual.A_DigitalInputExp1(12)		0284	R	BV, 20284	Universal input	Actual value exp.unit 1 digital UI4
VentActual.A_DigitalInputExp2(1)		0285	R	BV, 20285	Digital input	Actual value exp.unit 2 DI1
VentActual.A_DigitalInputExp2(2)		0286	R	BV, 20286	Digital input	Actual value exp.unit 2 DI2
VentActual.A_DigitalInputExp2(3)		0287	R	BV, 20287	Digital input	Actual value exp.unit 2 DI3
VentActual.A_DigitalInputExp2(4)		0288	R	BV, 20288	Digital input	Actual value exp.unit 2 DI4
VentActual.A_DigitalInputExp2(5)		0289	R	BV, 20289	Digital input	Actual value exp.unit 2 DI5

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_DigitalInputExp2(6)		0290	R	BV, 20290	Digital input	Actual value exp.unit 2 DI6
VentActual.A_DigitalInputExp2(7)		0291	R	BV, 20291	Digital input	Actual value exp.unit 2 DI7
VentActual.A_DigitalInputExp2(8)		0292	R	BV, 20292	Digital input	Actual value exp.unit 2 DI8
VentActual.A_DigitalInputExp2(9)		0293	R	BV, 20293	Universal input	Actual value exp.unit 2 digital UI1
VentActual.A_DigitalInputExp2(10)		0294	R	BV, 20294	Universal input	Actual value exp.unit 2 digital UI2
VentActual.A_DigitalInputExp2(11)		0295	R	BV, 20295	Universal input	Actual value exp.unit 2 digital UI3
VentActual.A_DigitalInputExp2(12)		0296	R	BV, 20296	Universal input	Actual value exp.unit 2 digital UI4
VentActual.A_DO_SeqPumpY1(0)		0321	R	BV, 20321	DO function	Raw value SEQ-A pump start
VentActual.A_DO_SeqPumpY2		0322	R	BV, 20322	DO function	Raw value SEQ-B pump start
VentActual.A_DO_SeqPumpY3		0323	R	BV, 20323	DO function	Raw value SEQ-C pump start
VentActual.A_DO_SeqPumpY4		0324	R	BV, 20324	DO function	Raw value SEQ-D pump start
VentActual.A_DO_SeqPumpY5		0325	R	BV, 20325	DO function	Raw value SEQ-E pump start
VentActual.A_DO_SeqPumpY6		0326	R	BV, 20326	DO function	Raw value SEQ-F pump start
VentActual.A_DO_SeqPumpY7		0327	R	BV, 20327	DO function	Raw value SEQ-G pump start
VentActual.A_DO_SeqPumpY8		0328	R	BV, 20328	DO function	Raw value SEQ-H pump start
VentActual.A_DO_SeqPumpY9		0329	R	BV, 20329	DO function	Raw value SEQ-I pump start
VentActual.A_DO_SeqPumpY10		0330	R	BV, 20330	DO function	Raw value SEQ-J pump start
VentActual.A_DO_SAFStart(0)		0331	R	BV, 20331	DO function	Raw value supply air fan start
VentActual.A_DO_EAFStart		0332	R	BV, 20332	DO function	Raw value extract air fan start

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_DigitalOutput(1)		0333	R	BV, 20333	Digital output	Actual value DO1
VentActual.A_DigitalOutput(2)		0334	R	BV, 20334	Digital output	Actual value DO2
VentActual.A_DigitalOutput(3)		0335	R	BV, 20335	Digital output	Actual value DO3
VentActual.A_DigitalOutput(4)		0336	R	BV, 20336	Digital output	Actual value DO4
VentActual.A_DigitalOutput(5)		0337	R	BV, 20337	Digital output	Actual value DO5
VentActual.A_DigitalOutput(6)		0338	R	BV, 20338	Digital output	Actual value DO6
VentActual.A_DigitalOutput(7)		0339	R	BV, 20339	Digital output	Actual value DO7
VentActual.A_Exp1DigitalOutput(1)		0340	R	BV, 20340	Digital output	Actual value exp.unit 1 DO1
VentActual.A_Exp1DigitalOutput(2)		0341	R	BV, 20341	Digital output	Actual value exp.unit 1 DO2
VentActual.A_Exp1DigitalOutput(3)		0342	R	BV, 20342	Digital output	Actual value exp.unit 1 DO3
VentActual.A_Exp1DigitalOutput(4)		0343	R	BV, 20343	Digital output	Actual value exp.unit 1 DO4
VentActual.A_Exp1DigitalOutput(5)		0344	R	BV, 20344	Digital output	Actual value exp.unit 1 DO5
VentActual.A_Exp1DigitalOutput(6)		0345	R	BV, 20345	Digital output	Actual value exp.unit 1 DO6
VentActual.A_Exp1DigitalOutput(7)		0346	R	BV, 20346	Digital output	Actual value exp.unit 1 DO7
VentActual.A_Exp2DigitalOutput(1)		0347	R	BV, 20347	Digital output	Actual value exp.unit 2 DO1
VentActual.A_Exp2DigitalOutput(2)		0348	R	BV, 20348	Digital output	Actual value exp.unit 2 DO2
VentActual.A_Exp2DigitalOutput(3)		0349	R	BV, 20349	Digital output	Actual value exp.unit 2 DO3
VentActual.A_Exp2DigitalOutput(4)		0350	R	BV, 20350	Digital output	Actual value exp.unit 2 DO4
VentActual.A_Exp2DigitalOutput(5)		0351	R	BV, 20351	Digital output	Actual value exp.unit 2 DO5

Signal name		Modbus address	RW	Bacnet	Function	Description
VentActual.A_Exp2DigitalOutput(6)		0352	R	BV, 20352	Digital output	Actual value exp.unit 2 DO6
VentActual.A_Exp2DigitalOutput(7)		0353	R	BV, 20353	Digital output	Actual value exp.unit 2 DO7
VentActual.A_NeedHeatActive		0368	R	BV, 20368	Support control	Active support heating mode
VentActual.A_NeedCoolActive		0369	R	BV, 20369	Support control	Active support cooling mode
VentActual.A_DemandCO2Active		0370	R	BV, 20370	CO ₂	Active CO ₂ mode
VentActual.A_RecirculationRunActive		0371	R	BV, 20371	Recirculation	Active recirculation mode
VentActual.A_DeIcingActive		0372	R	BV, 20372	Unit information	Active defrosting mode

Chapter 7 Appendix: Frequency converters

Access 4.0 supports the frequency converters listed below:

- Vacon NXL
- Lenze
- 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	-	Binary

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

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

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

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

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	-	

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

Eltwin A/S EC controller (for heat exchangers)

Communication takes place using address 7, 9600 bps, 8 bits, no parity and 1 stop bit.

Version 1.01, 2015-04-03

Address	Modbus register	Name	Scaling	Type
1	30001	Running mode	-	Bit 0 = Operation 0: Stop 1: Run Bit 3 = Reset 1: Reset
2	30002	Speed	1	0...100.0 %
3	30003	Supply voltage	-	V(RMS)
4	30004	Error code	1	Bit 0: Excess current/Ground fault Bit 1: Excess current from DC link 265V~ Bit 2: Undervoltage from DC link 170V~ Bit 3: Hardware error Bit 4: External error, input Bit 5: Overload Bit 6: Overheating, stop Bit 7: Overheating, reduced Bit 8: Rotor cover error Bit 9: Rotor cover input Bit 10: DIP 1 Bit 11: DIP 2 Bit 12: DIP 3 Bit 13: DIP 4 Bit 14: Not used Bit 15: Communication error
5	30005	Speed output	1	RPM
6	30006	Voltage output	1	Volt
7	30007	Motor current, DC link	1	mA
8	30008	Motor output	1	W
9	30009	Supplied power	1	W
10	30010	Running time	10	h
11	30011	Max. speed	1	RPM
12	30012	Min. speed	1	RPM
13	30013	Program version	1	ID
14	30014	Hardware version	1	ID
15	30015	Application version	1	ID



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