

Corrigo E Ventilation

List of network variables for EXOline and modbus communication

Covers all versions of Corrigo E Ventilation from revision 2.3-1-01



The challenger in building automation



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1. Corrigo E with modbus and EXOline communication

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

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

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

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

Modbus activation Corrigo uses the same port for both Modbus communication and for EXOline communication. If you try to communicate with a Modbus-activated unit using E Tool or other EXOline communication the input port will will automatically adapt itself after approx. 1 second. The port will remain in EXO-mode until 10 seconds of communication inactivity have passed after which it will revert to Modbus mode.

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

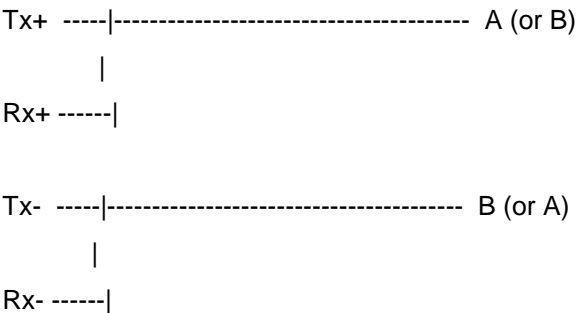
Modbus wiring etc. A protocol such as Modbus consists of several layers (OSI-model). The bottom layer is always the physical layer, number of wires and signal levels. the next layer describes the communication digits (number of data bits, stop-bits, parity etc). Then come the layers describing the Modbus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

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

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

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

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



Bitrate, two stop bits, parity is the next layer

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

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

2. Actual/Setpoint

2.1. General

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_OutDoorTemp(0)	R,4	1		Outdoor temperature, (Read only)
Ventilation2.Cor_OutDoorTemp(0)	R,3	392		Outdoor temperature (Can be modified if it's not connected to a physical analog input).
Ventilation2.Cor_Efficiency	R,4	2		Efficiency in % for exchanger
Ventilation2.Cor_RunMode	X,4	3		0=Stopped, 1=Starting up, 2=Starting reduced speed, 3=Starting full speed, 4=Starting normal run, 5=Normal run, 6=Support control heating, 7=Support control cooling, 8=CO2 run, 9=Night cooling, 10=Full speed stop, 11=Stopping fan
Ventilation2.Cor_SAFRunTime	R,4	4		Running time (hour) supply air fan
Ventilation2.Cor_EAFRunTime	R,4	5		Running time (hour) exhaust air fan
TimePro.TimeGroupFanFullSpeed	L,2	1		Is set if timechannel full speed is active
TimePro.TimeGroupFanHalfSpeed	L,2	2		Is set if timechannel reduced speed is active
TimePro.TimeGroupCor_ExtraTimeGroup1	L,2	3		Is set if timer output 1 is active
TimePro.TimeGroupCor_ExtraTimeGroup2	L,2	4		Is set if timer output 2 is active
TimePro.TimeGroupCor_ExtraTimeGroup3	L,2	5		Is set if timer output 3 is active
TimePro.TimeGroupCor_ExtraTimeGroup4	L,2	6		Is set if timer output 4 is active
TimePro.TimeGroupCor_ExtraTimeGroup5	L,2	7		Is set if timer output 5 is active

Ventilation2.Cor_ExtendedRunActiveFull	L,2	8		Is set if extended operation full speed
Ventilation2.Cor_ExtendedRunActiveHalf	L,2	9		Is set if extended operation half speed
Ventilation2.Cor_ExtendedRunMin	I,4	6		Number of minutes extended operation
Ventilation2.Cor_HeatPumpStart(0)	L,2	85		Start signal Heat Pump
Ventilation2.Cor_ExchPumpStart	L,2	86		Start signal Exchanger
Ventilation2.Cor_CoolPumpStart	L,2	87		Start signal Cool Pump
Ventilation1.Cor_HeatPumpLimit	R,3	403	10°C	If lower outdoor temp the heating pump is not stoped

2.2. Supply, Exhaust and Room temperatures

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_SupplyAirTemp	R,4	7		Supply air temperature
Ventilation1.Cor_SupplySetpoint	R,3	1	18°C	Setpoint supply air temperature when constant supply air temperature function
Ventilation4.Cor_SupplyPID_SetP	R,4	8		Calculated setpoint supply air temperature when outdoor compensated control function
Ventilation4.Cor_Curve1_X1	R,3	2	-20°C	Outdoor temp for first curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X2	R,3	3	-15°C	Outdoor temp for second curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X3	R,3	4	-10°C	Outdoor temp for third curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X4	R,3	5	-5°C	Outdoor temp for fourth curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X5	R,3	6	0°C	Outdoor temp for fifth curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X6	R,3	7	5°C	Outdoor temp for sixth curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X7	R,3	8	10°C	Outdoor temp for seventh curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_X8	R,3	9	15°C	Outdoor temp for eighth curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y1	R,3	10	25°C	Setpoint for first curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y2	R,3	11	24°C	Setpoint for second curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y3	R,3	12	23°C	Setpoint for third curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y4	R,3	13	23°C	Setpoint for fourth curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y5	R,3	14	22°C	Setpoint for fifth curvepoint for outdoor compensated setpoint

Ventilation4.Cor_Curve1_Y6	R,3	15	20°C	Setpoint for sixth curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y7	R,3	16	18°C	Setpoint for seventh curvepoint for outdoor compensated setpoint
Ventilation4.Cor_Curve1_Y8	R,3	17	18°C	Setpoint for eight curvepoint for outdoor compensated setpoint
Ventilation2.Cor_ExhaustAirTemp	R,4	9		Exhaust air temp
Ventilation1.Cor_ExhaustSetpoint	R,3	18	21°C	Setpoint exhaust air temp if exhaust air temp control function
Ventilation2.Cor_RoomTemp1	R,4	10		Room temperature 1
Ventilation1.Cor_RoomSetP	R,3	19	21°C	Room setpoint if room temp control function
Ventilation2.Cor_RoomTemp2	R,4	11		Room temperature 2
Ventilation2.Cor_RoomTemp	R,4	135		Room temperature 1 and 2
Ventilation1.Cor_NeedHeatStart	R,3	20	15°C	Room temp for start the unit if intermittent heating control is active
Ventilation1.Cor_NeedHeatStop	R,3	21	21°C	Room temp for stop the unit if intermittent heating control is active
Ventilation2.Cor_NeedHeatActive	L,2	10		Is set if ongoing support heating
Ventilation1.Cor_NeedCoolStart	R,3	22	30°C	Room temp for start the unit if intermittent cooling control is active
Ventilation1.Cor_NeedCoolStop	R,3	23	28°C	Room temp for stop the unit if intermittent cooling control is active
Ventilation2. Cor_NeedCoolActive	L,2	11		Is set if ongoing support cooling
Ventilation2. Cor_NeedRunTime	I,4	12		Number of minutes in ongoing support heating/cooling
Ventilation2.Cor_HeatCV1(0)	R,4	119		Control signal heating Y1 (0-10 V)
Ventilation2.Cor_ExchCV1	R,4	120		Control signal exchanger Y2 (0-10 V)
Ventilation2.Cor_CoolCV1	R,4	121		Control signal cooler Y3 (0-10 V)
Ventilation2.Cor_Split	R,4	125		Control signal split (0-10 V)
Ventilation4.Cor_SupplyPID_Output	R,4	126		Supply controller output (0-100 %)
Ventilation4.Cor_ExhaustPID_Output	R,4	127		Exhaust controller output (0-100 %)
Ventilation4.Cor_RoomPID_Output	R,4	132		Room controller output (0-100 %)
Ventilation1.Cor_SupplySetpointMax	R,3	404		Max limit of supply setpoint when cascade control
Ventilation1.Cor_SupplySetpointMin	R,3	405		Min limit of supply setpoint when cascade control

2.3. SAF/EAF Pressure and Flow

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_SAFPressure	R,4	13		Supply air fan pressure (Pa)
Ventilation1.Cor_SAFFullspeedPressure	R,3	24	500Pa	Setpoint full speed supply air fan pressure

Ventilation1.Cor_SAFHalfspeedPressure	R,3	25	250Pa	Setpoint reduced speed supply air fan pressure
Ventilation2.Cor_EAFPressure	R,4	14		Exhaust air fan pressure (Pa)
Ventilation1.Cor_EAFFullspeedPressure	R,3	26	500Pa	Setpoint full speed exhaust air fan pressure
Ventilation1.Cor_EAFHalfspeedPressure	R,3	27	250Pa	Setpoint reduced speed exhaust air fan pressure
Ventilation2.Cor_SAFAirFlow	R,4	15		Supply air fan flow (m3/h). Scale factor = 1
Ventilation1.Cor_SAFFullspeedAirFlow	R,3	28	2000 m3/h	Setpoint full speed supply air fan flow. Scale factor = 1
Ventilation1.Cor_SAFHalfspeedAirFlow	R,3	29	1000 m3/h	Setpoint reduced speed supply air fan flow. Scale factor = 1
Ventilation2.Cor_EAFAirFlow	R,4	16		Exhaust air fan flow (m3/h) Scale factor = 1
Ventilation1.Cor_EAFFullspeedAirFlow	R,3	30	2000 m3/h	Setpoint full speed exhaust air fan flow. Scale factor = 1
Ventilation1.Cor_EAFHalfspeedAirFlow	R,3	31	1000 m3/h	Setpoint reduced speed exhaust air fan flow. Scale factor = 1
Ventilation1.Cor_Comp1Pressure	R,3	414	0	Pressure compensation at breakpoint 1
Ventilation1. Cor_Comp1Temp	R,3	415	-20	Outdoor temp breakpoint 1 (must be lower than breakpoint 2 temp)
Ventilation1.Cor_Comp2Pressure	R,3	416	0	Pressure compensation at breakpoint 2
Ventilation1.Cor_Comp2Temp	R,3	417	10	Outdoor temp breakpoint 2 (must be higher than breakpoint 1 temp)
Ventilation1. Cor_CompSAFOnly	L,1	7	0	Is set if only SAF pressure should be compensated
Ventilation1.Cor_SAFFullspeedOutput	R,3	424	75 %	Output signal (0-100%) full speed SAF if Frequency control manual
Ventilation1.Cor_SAFHalfspeedOutput	R,3	425	50 %	Output signal (0-100%) half speed SAF if Frequency control manual
Ventilation1.Cor_EAFFullspeedOutput	R,3	426	75 %	Output signal (0-100%) full speed EAF if Frequency control manual
Ventilation1.Cor_EAFHalfspeedOutput	R,3	427	50 %	Output signal (0-100%) half speed EAF if Frequency control manual
Ventilation2.Cor_SAFStart1(0)	L,2	81		Start signal full speed supply air fan
Ventilation2.Cor_EAFStart1	L,2	82		Start signal full speed exhaust air fan
Ventilation2.Cor_SAFStart2	L,2	83		Start signal half speed supply air fan
Ventilation2.Cor_EAFStart2	L,2	84		Start signal half speed exhaust air fan
Ventilation2.Cor_SAFFrequencyStart	L,2	88		Start signal frequencer supply air fan
Ventilation2.Cor_EAFFrequencyStart	L,2	89		Start signal frequencer exhaust air fan
Ventilation2.Cor_SAF	R,4	122		Control signal supply air fan (0-10 V)
Ventilation2.Cor_EAF	R,4	123		Control signal exhaust air fan (0-10 V)
Ventilation4.Cor_SAFPID_Output	R,4	128		SAF controller output (0-100 %)
Ventilation4.Cor_EAFPID_Output	R,4	129		EAF controller output (0-100 %)
Ventilation2.Cor_ExtSAFControl	R,4	151		External SAF signal control (%)
Ventilation2.Cor_ExtEAFControl	R,4	152		External EAF signal control (%)
Ventilation2. Cor_SAFPressure2	R,4	153		Pressure transmitter 2 supply air (Pa)

Ventilation2.Cor_SAFAirFlow2	R,4	154		Calculated air flow m3/sek supply air 2 airflow = Cor_AirFlowK * Cor_SAFPressure2^Cor_AirFlowx)
Ventilation1.Cor_SAFAirFlowK	R,3	443	100	K-constant for calculating air flow SAF airflow = Cor_AirFlowK * Cor_SAFPressure^Cor_AirFlowx
Ventilation1.Cor_SAFAirFlowx	R,3	444	0.5	X-constant for calculating air flow SAF
Ventilation1.Cor_EAFAirFlowK	R,3	445	100	K-constant for calculating air flow EAF airflow = Cor_AirFlowK * Cor_SAFPressure^Cor_AirFlowx
Ventilation1.Cor_EAFAirFlowx	R,3	446	0.5	X-constant for counting air flow EAF
Ventilation1.Cor_EAFFrequencyFact	R,3	447	1	Factor for controlling EAF if CAV fan control is configured (EAF is controlled by SAF with this factor)

2.4. CO2

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_CO2Sensor	R,4	17		CO2 (ppm)
Ventilation1.Cor_CO2Setpoint	R,3	32	1000ppm	Setpoint CO2
Ventilation2.Cor_DemandCO2Active	L,2	12		Is set if ongoing support CO2
Ventilation2.Cor_DemandRunTime	I,4	18		Number of minutes support run time CO2
Ventilation4.Cor_CO2PID_Output	R,4	131		CO2 controller output (0-100 %)

2.5. Frost protection

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_FrostprotectionTemp	R,4	19		Frost protection temp
Ventilation1.Cor_FrostProtSPStop	R,3	33	25°C	Setpoint frost protection if the ventilation unit is stoped
Ventilation1.Cor_FrostProtPGain	R,3	34	5°	P-Gain frost protection when running (alarm limit+PGain)
Ventilation4.Cor_FrostPID_Output	R,4	130		Frost protection controller output if ventilation unit is stoped (0-100 %)

2.6. Extract air temp/De-icing exchanger

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_ExtractAirTemp	R,4	20		Extract air temp
Ventilation2.Cor_DeIcingTemp	R,4	21		De-icing temp exchanger
Ventilation1.Cor_DeIcingSetpoint	R,3	35	-3°	Setpoint de-icing temp
Ventilation1.Cor_DeIcingHyst	R,3	36	1°C	Hysteresis for stop of de-icing
Ventilation2.Cor_DeIcingActive	L,2	13		Is set if ongoing de-icing
Ventilation2.Cor_DeIcingTime	X,4	22		Number of minutes for ongoing de-icing
Ventilation4.Cor_DeIcingPID_Output	R,4	133		De-icing controller output (0-100 %)

2.7. Humidity room/duct

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_HumidityRoom	R,4	23		Humidity room
Ventilation1.Cor_HumiditySetpoint	R,3	37	50%RH	Setpoint humidity room
Ventilation2.Cor_HumidityDuct	R,4	24		Humidity duct
Ventilation1.Cor_HumidityMaxDuct	R,3	38	80%RH	Max limit humidity duct
Ventilation1.Cor_HumidityHyst	R,3	39	20%RH	Hysteresis to start humidity control after stop max limitation
Ventilation2.Cor_Humidity	R,4	124		Control signal humidity (0-10 V)
Ventilation4.Cor_HumidityPID_Output	R,4	134		Humidity controller output (0-100 %)
Ventilation1.Cor_HumidityMaxDiff	R,3	418	10 %RH	Max allowed difference between setpoint and humidity in room before alarm
Ventilation1.Cor_HumidityStartLimit	R,3	419	15 %RH	Start limit in % to start digital output signal "Cor_HumidityStart(0)"
Ventilation1.Cor_HumidityStopLimit	R,3	420	5 %RH	Stop limit in % to stop digital output signal "Cor_HumidityStart(0)"

2.8. Additional sensor/External setpoint

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_ExtraSensor	R,4	25		Additional sensor / External setpoint

2.9. Extra Unit

Signal name	Type	Modbus address	Default value	Description
Ventilation1.Cor_ExtraUnitFunc	X,3	434	0	Start/Stop function Extra Unit: 0=Off 1=Always running 2=Running if unit is running
Ventilation1.Cor_ExtraUnitSetP	R,3	435	18 °C	Setpoint Extra Unit
Ventilation1.Cor_ExtraUnitPID1Mode	X,3	436	0	Control mode Extra Unit 0=Heating Controller 1=Cooling Controller
Ventilation2.Cor_ExtraUnitTemp(0)	R,4	150		Extra Unit temp

2.10. Recirculation

Signal name	Type	Modbus address	Default value	Description
Ventilation1.Cor_RecycleSetP	R,3	439	18 °C	Recirculation setpoint
Ventilation1.Cor_RecycleMaxRoomTemp	R,3	440	25 °C	If higher room temp during Recirculation run recirculation damper is closed and fresh air damper is open
Ventilation1.Cor_RecycleSAFOffset	R,3	441	0	Setpoint offset if pressure/flow controlled SAF (Pa)
Ventilation1.Cor_RecycleEAFOffset	R,3	442	0	Setpoint offset if pressure/flow controlled EAF (this is not used)
Ventilation1.Cor_RecycleTempControl	L,1	4	0	Enable supply air temp control during recirculation run: 0=No temp control 1=heating/cooling 2=only heating 3=only cooling
Ventilation1.Cor_RecycleNightCool	L,1	5	0	Enable the night cool function during Recirculation run
Ventilation1.Cor_RecycleExtraTimeGroup5	L,1	6	0	Use ExtraTimeGroup 5 to start Recirculation run

3. Input/Output

3.1. Analogue inputs

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_AnalogInput1(0)	R,4	26		The scaled and filtered value of AI1
Ventilation2.Cor_AnalogInput2	R,4	27		The scaled and filtered value of AI2
Ventilation2.Cor_AnalogInput3	R,4	28		The scaled and filtered value of AI3
Ventilation2.Cor_AnalogInput4	R,4	29		The scaled and filtered value of AI4
Ventilation1.Cor_Ai1(0)	X,4	34		Connected signal on AI1: 0=Not used 1=Outdoor temp 2=Supply temp 3=Exhaust temp 4=Room temp1 5=Room temp2 6=Extract temp 7=Extra sensor 8=SAF pressure 9=EAF pressure 10=Deicing temp 11=Frost prot. temp 12=CO2 13=Humidity room 14=Humidity duct 15=Extra unit temp 16=External SAF control 17=External EAF control 18=SAF pressure 2
Ventilation1.Cor_Ai2	X,4	35		Connected signal on AI2: (See signal list for AI1)
Ventilation1.Cor_Ai3	X,4	36		Connected signal on AI3: (See signal list for AI1)
Ventilation1.Cor_Ai4	X,4	37		Connected signal on AI4: (See signal list for AI1)

3.2. Digital inputs

Signal name	Type	Modbus address	Default value	Description
QDig.DI1	L,2	14		Value of DI1
QDig.DI2	L,2	15		Value of DI2
QDig.DI3	L,2	16		Value of DI3
QDig.DI4	L,2	17		Value of DI4
QDig.DI5	L,2	18		Value of DI5
QDig.DI6	L,2	19		Value of DI6
QDig.DI7	L,2	20		Value of DI7
QDig.DI8	L,2	21		Value of DI8
Ventilation1.Cor_Di1(0)	X,4	42		Connected signal on DI1: 0=Not used 1=SAF-Ind 2=EAF-Ind 3=P1-Heating 4=P1-Exchanger 5=P1-Cooling 6=Filter alarm 7=Fire alarm 8=Fire damper-ind 9=Ext run 1/1 10=Ext run ½ 11=External alarm 12=External switch 13=Flow guard 14=Rot.sent.exch 15=De-icing 16=Frostprotection 17=Overheatprotection 18=Recirculation run 19=Change over
Ventilation1.Cor_Di2	X,4	43		Connected signal on DI2: (See signal list for DI1)
Ventilation1.Cor_Di3	X,4	44		Connected signal on DI3: (See signal list for DI1)
Ventilation1.Cor_Di4	X,4	45		Connected signal on DI4: (See signal list for DI1)
Ventilation1.Cor_Di5	X,4	46		Connected signal on DI5: (See signal list for DI1)
Ventilation1.Cor_Di6	X,4	47		Connected signal on DI6: (See signal list for DI1)
Ventilation1.Cor_Di7	X,4	48		Connected signal on DI7: (See signal list for DI1)
Ventilation1.Cor_Di8	X,4	49		Connected signal on DI8: (See signal list for DI1)

3.3. Universal inputs

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_AnalogInput5	R,4	30		The scaled and filtered value of UAI1
Ventilation2.Cor_AnalogInput6	R,4	31		The scaled and filtered value of UAI2
Ventilation2.Cor_AnalogInput7	R,4	32		The scaled and filtered value of UAI3
Ventilation2.Cor_AnalogInput8	R,4	33		The scaled and filtered value of UAI4
Ventilation1.Cor_UAi1	X,4	38		Connected signal on UAI1: 0=Not used 1=Outdoor temp 2=Supply temp 3=Exhaust temp 4=Room temp1 5=Room temp2 6=Extract temp 7=Extrasensor 8=SAF pressure 9=EAF pressure 10=Deicing temp 11=Frost prot. temp 12=CO2 13=Humidity room 14=Humidity duct 15=Extra unit temp 16=External SAF control 17=External EAF control 18=SAF pressure 2
Ventilation1.Cor_UAi2	X,4	39		Connected signal on UAI2: (See signal list for UAI1)
Ventilation1.Cor_UAi3	X,4	40		Connected signal on UAI3: (See signal list for UAI1)
Ventilation1.Cor_UAi4	X,4	41		Connected signal on UAI4: (See signal list for UAI1)
QDig.DI9	L,2	22		Value of UDI1
QDig.DI10	L,2	23		Value of UDI2
QDig.DI11	L,2	24		Value of UDI3
QDig.DI12	L,2	25		Value of UDI4

Ventilation1.Cor_UDi1	X,4	50		Connected signal on UDI1: 0=Not used 1=SAF-Ind 2=EAF-Ind 3=P1-Heating 4=P1-Exchanger 5=P1-Cooling 6=Filter alarm 7=Fire alarm 8=Fire damper-ind 9=Ext run 1/1 10=Ext run ½ 11=External alarm 12=External switch 13=Flow guard 14=Rot.sent.exch 15=De-icing 16=Frostprotection 17=Overheatprotection 18=Recirculation run 19=Change over
Ventilation1.Cor_UDi2	X,4	51		Connected signal on UDI2: (See signal list for UDI1)
Ventilation1.Cor_UDi3	X,4	52		Connected signal on UDI3: (See signal list for UDI1)
Ventilation1.Cor_UDi4	X,4	53		Connected signal on UDI4: (See signal list for UDI1)

3.4. Analogue outputs

Signal name	Type	Modbus address	Default value	Description
QAnaOut.AQ1	R,4	54		Value of AO1
QAnaOut.AQ2	R,4	55		Value of AO2
QAnaOut.AQ3	R,4	56		Value of AO3
QAnaOut.AQ4	R,4	57		Value of AO4
QAnaOut.AQ5	R,4	58		Value of AO5
Ventilation1.Cor_Ao1(0)	X,4	59		Connected signal on AO1: 0=Not used 1=Y1-Heating 2=Y2-Exchanger 3=Y3-Cooling 4=SAF 5=EAF 6=Y6-Humidity 7=Sequence 8=Extra unit 9=Heat/Cool (change over)
Ventilation1.Cor_Ao2	X,4	60		Connected signal on AO2: (See signal list for AO1)

Ventilation1.Cor_Ao3	X,4	61		Connected signal on AO3: (See signal list for AIO)
Ventilation1.Cor_Ao4	X,4	62		Connected signal on AO4: (See signal list for AO1)
Ventilation1.Cor_Ao5	X,4	63		Connected signal on AO5: (See signal list for AO1)

3.5. Digital outputs

Signal name	Type	Modbus address	Default value	Description
QDig.Dq1	L,2	26		Value of DO1
QDig.Dq2	L,2	27		Value of DO2
QDig.Dq3	L,2	28		Value of DO3
QDig.Dq4	L,2	29		Value of DO4
QDig.Dq5	L,2	30		Value of DO5
QDig.Dq6	L,2	31		Value of DO6
QDig.Dq7	L,2	32		Value of DO7

Ventilation1.Cor_Do1(0)	X,4	64		<p>Connected signal on DO1:</p> <ul style="list-style-type: none"> 0 = Not Used 1 = SAFStart1 2 = EAFStart1 3 = SAFStart2 4 = EAFStart2 5 = HeatingPumpStart 6 = ExchangerStart 7 = CoolingPumpStart 8 = FireDamper 9 = SumAlarm 10 = SumAlarmA 11 = SumAlarmB 12 = SAFFrequencyStart 13 = EAFFrequencyStart 14 = HeatingActivate 15 = ExchangerActivate 16 = CoolingActivate 17 = RecycleAirDamper 18 = FreshAirDamper 19 = ExtractAirDamper 20 = HeatingIncrease 21 = HeatingDecrease 22 = ExchangerIncrease 23 = ExchangerDecrease 24 = CoolingIncrease 25 = CoolingDecrease 26 = HeatStep1 27 = HeatStep2 28 = HeatStep3 29 = HeatStep4 30 = CoolStep1 31 = CoolStep2 32 = CoolStep3 33 = TimeChannel1 34 = TimeChannel2 35 = TimeChannel3 36 = TimeChannel4 37 = TimeChannel5 38 = Humidity start 39 = Extra unit start 40 = Heat/Cool step 1 41 = Heat/Cool step 2 42 = Heat/Cool step 3
Ventilation1.Cor_Do2	X,4	65		<p>Connected signal on DO2: (See signal list for DO1)</p>
Ventilation1.Cor_Do3	X,4	66		<p>Connected signal on DO3: (See signal list for DO1)</p>
Ventilation1.Cor_Do4	X,4	67		<p>Connected signal on DO4: (See signal list for DO1)</p>
Ventilation1.Cor_Do5	X,4	68		<p>Connected signal on DO5: (See signal list for DO1)</p>
Ventilation1.Cor_Do6	X,4	69		<p>Connected signal on DO6: (See signal list for DO1)</p>
Ventilation1.Cor_Do7	X,4	70		<p>Connected signal on DO7: (See signal list for DO1)</p>

4. Time Settings

4.1. Timer Normal Speed

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(0).T1	R,3	40	7	Start time period 1 Monday normal speed (HH.MM)
TimeDp.Posts(0).T2	R,3	41	16	Stop time period 1 Monday normal speed
TimeDp.Posts(0).T3	R,3	42	0	Start time period 2 Monday normal speed
TimeDp.Posts(0).T4	R,3	43	0	Stop time period 2 Monday normal speed
TimeDp.Posts(1).T1	R,3	44	7	Start time period 1 Tuesday normal speed
TimeDp.Posts(1).T2	R,3	45	16	Stop time period 1 Tuesday normal speed
TimeDp.Posts(1).T3	R,3	46	0	Start time period 2 Tuesday normal speed
TimeDp.Posts(1).T4	R,3	47	0	Stop time period 2 Tuesday normal speed
TimeDp.Posts(2).T1	R,3	48	7	Start time period 1 Wedn. normal speed
TimeDp.Posts(2).T2	R,3	49	16	Stop time period 1 Wedn. normal speed
TimeDp.Posts(2).T3	R,3	50	0	Start time period 2 Wedn. normal speed
TimeDp.Posts(2).T4	R,3	51	0	Stop time period 2 Wedn. normal speed
TimeDp.Posts(3).T1	R,3	52	7	Start time period 1 Thursday normal speed
TimeDp.Posts(3).T2	R,3	53	16	Stop time period 1 Thursday normal speed
TimeDp.Posts(3).T3	R,3	54	0	Start time period 2 Thursday normal speed
TimeDp.Posts(3).T4	R,3	55	0	Stop time period 2 Thursday normal speed
TimeDp.Posts(4).T1	R,3	56	7	Start time period 1 Friday normal speed
TimeDp.Posts(4).T2	R,3	57	16	Stop time period 1 Friday normal speed
TimeDp.Posts(4).T3	R,3	58	0	Start time period 2 Friday normal speed
TimeDp.Posts(4).T4	R,3	59	0	Stop time period 2 Friday normal speed
TimeDp.Posts(5).T1	R,3	60	0	Start time period 1 Saturday normal speed
TimeDp.Posts(5).T2	R,3	61	0	Stop time period 1 Saturday normal speed
TimeDp.Posts(5).T3	R,3	62	0	Start time period 2 Saturday normal speed
TimeDp.Posts(5).T4	R,3	63	0	Stop time period 2 Saturday normal speed
TimeDp.Posts(6).T1	R,3	64	0	Start time period 1 Sunday normal speed
TimeDp.Posts(6).T2	R,3	65	0	Stop time period 1 Sunday normal speed
TimeDp.Posts(6).T3	R,3	66	0	Start time period 2 Sunday normal speed

TimeDp.Posts(6).T4	R,3	67	0	Stop time period 2 Sunday normal speed
TimeDp.Posts(7).T1	R,3	68	0	Start time period 1 Holiday normal speed
TimeDp.Posts(7).T2	R,3	69	0	Stop time period 1 Holiday normal speed
TimeDp.Posts(7).T3	R,3	70	0	Start time period 2 Holiday normal speed
TimeDp.Posts(7).T4	R,3	71	0	Stop time period 2 Holiday normal speed

4.2. Timer Reduced Speed

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(8).T1	R,3	72	0	Start time period 1 Monday reduced speed (HH.MM)
TimeDp.Posts(8).T2	R,3	73	0	Stop time period 1 Monday reduced speed
TimeDp.Posts(8).T3	R,3	74	0	Start time period 2 Monday reduced speed
TimeDp.Posts(8).T4	R,3	75	0	Stop time period 2 Monday reduced speed
TimeDp.Posts(9).T1	R,3	76	0	Start time period 1 Tuesday reduced speed
TimeDp.Posts(9).T2	R,3	77	0	Stop time period 1 Tuesday reduced speed
TimeDp.Posts(9).T3	R,3	78	0	Start time period 2 Tuesday reduced speed
TimeDp.Posts(9).T4	R,3	79	0	Stop time period 2 Tuesday reduced speed
TimeDp.Posts(10).T1	R,3	80	0	Start time period 1 Wedn. reduced speed
TimeDp.Posts(10).T2	R,3	81	0	Stop time period 1 Wedn. reduced speed
TimeDp.Posts(10).T3	R,3	82	0	Start time period 2 Wedn. reduced speed
TimeDp.Posts(10).T4	R,3	83	0	Stop time period 2 Wedn. reduced speed
TimeDp.Posts(11).T1	R,3	84	0	Start time period 1 Thursday red.speed
TimeDp.Posts(11).T2	R,3	85	0	Stop time period 1 Thursday red. speed
TimeDp.Posts(11).T3	R,3	86	0	Start time period 2 Thursday red. speed
TimeDp.Posts(11).T4	R,3	87	0	Stop time period 2 Thursday red. speed
TimeDp.Posts(12).T1	R,3	88	0	Start time period 1 Friday reduced speed
TimeDp.Posts(12).T2	R,3	89	0	Stop time period 1 Friday reduced speed
TimeDp.Posts(12).T3	R,3	90	0	Start time period 2 Friday reduced speed
TimeDp.Posts(12).T4	R,3	91	0	Stop time period 2 Friday reduced speed
TimeDp.Posts(13).T1	R,3	92	0	Start time period 1 Saturday red. speed
TimeDp.Posts(13).T2	R,3	93	0	Stop time period 1 Saturday red. speed
TimeDp.Posts(13).T3	R,3	94	0	Start time period 2 Saturday red. speed
TimeDp.Posts(13).T4	R,3	95	0	Stop time period 2 Saturday red. speed
TimeDp.Posts(14).T1	R,3	96	0	Start time period 1 Sunday reduced speed
TimeDp.Posts(14).T2	R,3	97	0	Stop time period 1 Sunday reduced speed
TimeDp.Posts(14).T3	R,3	98	0	Start time period 2 Sunday reduced speed
TimeDp.Posts(14).T4	R,3	99	0	Stop time period 2 Sunday reduced speed
TimeDp.Posts(15).T1	R,3	100	0	Start time period 1 Holiday reduced speed
TimeDp.Posts(15).T2	R,3	101	0	Stop time period 1 Holiday reduced speed
TimeDp.Posts(15).T3	R,3	102	0	Start time period 2 Holiday reduced speed

TimeDp.Posts(15).T4	R,3	103	0	Stop time period 2 Holiday reduced speed
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4.3. Timer output 1

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(16).T1	R,3	104	7	Start time period 1 Monday timer output 1 (HH.MM)
TimeDp.Posts(16).T2	R,3	105	16	Stop time period 1 Monday timer output 1
TimeDp.Posts(16).T3	R,3	106	0	Start time period 2 Monday timer output 1
TimeDp.Posts(16).T4	R,3	107	0	Stop time period 2 Monday timer output 1
TimeDp.Posts(17).T1	R,3	108	7	Start time period 1 Tuesday timer output 1
TimeDp.Posts(17).T2	R,3	109	16	Stop time period 1 Tuesday timer output 1
TimeDp.Posts(17).T3	R,3	110	0	Start time period 2 Tuesday timer output 1
TimeDp.Posts(17).T4	R,3	111	0	Stop time period 2 Tuesday timer output 1
TimeDp.Posts(18).T1	R,3	112	7	Start time period 1 Wednesd.timer output 1
TimeDp.Posts(18).T2	R,3	113	16	Stop time period 1 Wedn. timer output 1
TimeDp.Posts(18).T3	R,3	114	0	Start time period 2 Wedn. timer output 1
TimeDp.Posts(18).T4	R,3	115	0	Stop time period 2 Wedn. timer output 1
TimeDp.Posts(19).T1	R,3	116	7	Start time period 1 Thursday timer output 1
TimeDp.Posts(19).T2	R,3	117	16	Stop time period 1 Thursday timer output 1
TimeDp.Posts(19).T3	R,3	118	0	Start time period 2 Thursday timer output 1
TimeDp.Posts(19).T4	R,3	119	0	Stop time period 2 Thursday timer output 1
TimeDp.Posts(20).T1	R,3	120	7	Start time period 1 Friday timer output 1
TimeDp.Posts(20).T2	R,3	121	16	Stop time period 1 Friday timer output 1
TimeDp.Posts(20).T3	R,3	122	0	Start time period 2 Friday timer output 1
TimeDp.Posts(20).T4	R,3	123	0	Stop time period 2 Friday timer output 1
TimeDp.Posts(21).T1	R,3	124	0	Start time period 1 Saturday timer output 1
TimeDp.Posts(21).T2	R,3	125	0	Stop time period 1 Saturday timer output 1
TimeDp.Posts(21).T3	R,3	126	0	Start time period 2 Saturday timer output 1
TimeDp.Posts(21).T4	R,3	127	0	Stop time period 2 Saturday timer output 1
TimeDp.Posts(22).T1	R,3	128	0	Start time period 1 Sunday timer output 1
TimeDp.Posts(22).T2	R,3	129	0	Stop time period 1 Sunday timer output 1
TimeDp.Posts(22).T3	R,3	130	0	Start time period 2 Sunday timer output 1
TimeDp.Posts(22).T4	R,3	131	0	Stop time period 2 Sunday timer output 1
TimeDp.Posts(23).T1	R,3	132	0	Start time period 1 Holiday timer output 1
TimeDp.Posts(23).T2	R,3	133	0	Stop time period 1 Holiday timer output 1
TimeDp.Posts(23).T3	R,3	134	0	Start time period 2 Holiday timer output 1
TimeDp.Posts(23).T4	R,3	135	0	Stop time period 2 Holiday timer output 1

4.4. Timer output 2

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(24).T1	R,3	136	7	Start time period 1 Monday timer output 2 (HH.MM)
TimeDp.Posts(24).T2	R,3	137	16	Stop time period 1 Monday timer output 2
TimeDp.Posts(24).T3	R,3	138	0	Start time period 2 Monday timer output 2
TimeDp.Posts(24).T4	R,3	139	0	Stop time period 2 Monday timer output 2
TimeDp.Posts(25).T1	R,3	140	7	Start time period 1 Tuesday timer output 2
TimeDp.Posts(25).T2	R,3	141	16	Stop time period 1 Tuesday timer output 2
TimeDp.Posts(25).T3	R,3	142	0	Start time period 2 Tuesday timer output 2
TimeDp.Posts(25).T4	R,3	143	0	Stop time period 2 Tuesday timer output 2
TimeDp.Posts(26).T1	R,3	144	7	Start time period 1 Wedn. timer output 2
TimeDp.Posts(26).T2	R,3	145	16	Stop time period 1 Wedn. timer output 2
TimeDp.Posts(26).T3	R,3	146	0	Start time period 2 Wedn. timer output 2
TimeDp.Posts(26).T4	R,3	147	0	Stop time period 2 Wedn. timer output 2
TimeDp.Posts(27).T1	R,3	148	7	Start time period 1 Thursday timer output 2
TimeDp.Posts(27).T2	R,3	149	16	Stop time period 1 Thursday timer output 2
TimeDp.Posts(27).T3	R,3	150	0	Start time period 2 Thursday timer output 2
TimeDp.Posts(27).T4	R,3	151	0	Stop time period 2 Thursday timer output 2
TimeDp.Posts(28).T1	R,3	152	7	Start time period 1 Friday timer output 2
TimeDp.Posts(28).T2	R,3	153	16	Stop time period 1 Friday timer output 2
TimeDp.Posts(28).T3	R,3	154	0	Start time period 2 Friday timer output 2
TimeDp.Posts(28).T4	R,3	155	0	Stop time period 2 Friday timer output 2
TimeDp.Posts(29).T1	R,3	156	0	Start time period 1 Saturday timer output 2
TimeDp.Posts(29).T2	R,3	157	0	Stop time period 1 Saturday timer output 2
TimeDp.Posts(29).T3	R,3	158	0	Start time period 2 Saturday timer output 2
TimeDp.Posts(29).T4	R,3	159	0	Stop time period 2 Saturday timer output 2
TimeDp.Posts(30).T1	R,3	160	0	Start time period 1 Sunday timer output 2
TimeDp.Posts(30).T2	R,3	161	0	Stop time period 1 Sunday timer output 2
TimeDp.Posts(30).T3	R,3	162	0	Start time period 2 Sunday timer output 2
TimeDp.Posts(30).T4	R,3	163	0	Stop time period 2 Sunday timer output 2
TimeDp.Posts(31).T1	R,3	164	0	Start time period 1 Holiday timer output 2
TimeDp.Posts(31).T2	R,3	165	0	Stop time period 1 Holiday timer output 2
TimeDp.Posts(31).T3	R,3	166	0	Start time period 2 Holiday timer output 2
TimeDp.Posts(31).T4	R,3	167	0	Stop time period 2 Holiday timer output 2

4.5. Timer output 3

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(32).T1	R,3	168	7	Start time period 1 Monday timer output 3 (HH.MM)
TimeDp.Posts(32).T2	R,3	169	16	Stop time period 1 Monday timer output 3
TimeDp.Posts(32).T3	R,3	170	0	Start time period 2 Monday timer output 3
TimeDp.Posts(32).T4	R,3	171	0	Stop time period 2 Monday timer output 3
TimeDp.Posts(33).T1	R,3	172	7	Start time period 1 Tuesday timer output 3
TimeDp.Posts(33).T2	R,3	173	16	Stop time period 1 Tuesday timer output 3
TimeDp.Posts(33).T3	R,3	174	0	Start time period 2 Tuesday timer output 3
TimeDp.Posts(33).T4	R,3	175	0	Stop time period 2 Tuesday timer output 3
TimeDp.Posts(34).T1	R,3	176	7	Start time period 1 Wedn. timer output 3
TimeDp.Posts(34).T2	R,3	177	16	Stop time period 1 Wedn. timer output 3
TimeDp.Posts(34).T3	R,3	178	0	Start time period 2 Wedn. timer output 3
TimeDp.Posts(34).T4	R,3	179	0	Stop time period 2 Wedn. timer output 3
TimeDp.Posts(35).T1	R,3	180	7	Start time period 1 Thursday timer output 3
TimeDp.Posts(35).T2	R,3	181	16	Stop time period 1 Thursday timer output 3
TimeDp.Posts(35).T3	R,3	182	0	Start time period 2 Thursday timer output 3
TimeDp.Posts(35).T4	R,3	183	0	Stop time period 2 Thursday timer output 3
TimeDp.Posts(36).T1	R,3	184	7	Start time period 1 Friday timer output 3
TimeDp.Posts(36).T2	R,3	185	16	Stop time period 1 Friday timer output 3
TimeDp.Posts(36).T3	R,3	186	0	Start time period 2 Friday timer output 3
TimeDp.Posts(36).T4	R,3	187	0	Stop time period 2 Friday timer output 3
TimeDp.Posts(37).T1	R,3	188	0	Start time period 1 Saturday timer output 3
TimeDp.Posts(37).T2	R,3	189	0	Stop time period 1 Saturday timer output 3
TimeDp.Posts(37).T3	R,3	190	0	Start time period 2 Saturday timer output 3
TimeDp.Posts(37).T4	R,3	191	0	Stop time period 2 Saturday timer output 3
TimeDp.Posts(38).T1	R,3	192	0	Start time period 1 Sunday timer output 3
TimeDp.Posts(38).T2	R,3	193	0	Stop time period 1 Sunday timer output 3
TimeDp.Posts(38).T3	R,3	194	0	Start time period 2 Sunday timer output 3
TimeDp.Posts(38).T4	R,3	195	0	Stop time period 2 Sunday timer output 3
TimeDp.Posts(39).T1	R,3	196	0	Start time period 1 Holiday timer output 3
TimeDp.Posts(39).T2	R,3	197	0	Stop time period 1 Holiday timer output 3
TimeDp.Posts(39).T3	R,3	198	0	Start time period 2 Holiday timer output 3
TimeDp.Posts(39).T4	R,3	199	0	Stop time period 2 Holiday timer output 3

4.6. Timer output 4

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(40).T1	R,3	200	7	Start time period 1 Monday timer output 4 (HH.MM)
TimeDp.Posts(40).T2	R,3	201	16	Stop time period 1 Monday timer output 4
TimeDp.Posts(40).T3	R,3	202	0	Start time period 2 Monday timer output 4
TimeDp.Posts(40).T4	R,3	203	0	Stop time period 2 Monday timer output 4
TimeDp.Posts(41).T1	R,3	204	7	Start time period 1 Tuesday timer output 4
TimeDp.Posts(41).T2	R,3	205	16	Stop time period 1 Tuesday timer output 4
TimeDp.Posts(41).T3	R,3	206	0	Start time period 2 Tuesday timer output 4
TimeDp.Posts(41).T4	R,3	207	0	Stop time period 2 Tuesday timer output 4
TimeDp.Posts(42).T1	R,3	208	7	Start time period 1 Wedn. timer output 4
TimeDp.Posts(42).T2	R,3	209	16	Stop time period 1 Wedn. timer output 4
TimeDp.Posts(42).T3	R,3	210	0	Start time period 2 Wedn. timer output 4
TimeDp.Posts(42).T4	R,3	211	0	Stop time period 2 Wedn. timer output 4
TimeDp.Posts(43).T1	R,3	212	7	Start time period 1 Thursday timer output 4
TimeDp.Posts(43).T2	R,3	213	16	Stop time period 1 Thursday timer output 4
TimeDp.Posts(43).T3	R,3	214	0	Start time period 2 Thursday timer output 4
TimeDp.Posts(43).T4	R,3	215	0	Stop time period 2 Thursday timer output 4
TimeDp.Posts(44).T1	R,3	216	7	Start time period 1 Friday timer output 4
TimeDp.Posts(44).T2	R,3	217	16	Stop time period 1 Friday timer output 4
TimeDp.Posts(44).T3	R,3	218	0	Start time period 2 Friday timer output 4
TimeDp.Posts(44).T4	R,3	219	0	Stop time period 2 Friday timer output 4
TimeDp.Posts(45).T1	R,3	220	0	Start time period 1 Saturday timer output 4
TimeDp.Posts(45).T2	R,3	221	0	Stop time period 1 Saturday timer output 4
TimeDp.Posts(45).T3	R,3	222	0	Start time period 2 Saturday timer output 4
TimeDp.Posts(45).T4	R,3	223	0	Stop time period 2 Saturday timer output 4
TimeDp.Posts(46).T1	R,3	224	0	Start time period 1 Sunday timer output 4
TimeDp.Posts(46).T2	R,3	225	0	Stop time period 1 Sunday timer output 4
TimeDp.Posts(46).T3	R,3	226	0	Start time period 2 Sunday timer output 4
TimeDp.Posts(46).T4	R,3	227	0	Stop time period 2 Sunday timer output 4
TimeDp.Posts(47).T1	R,3	228	0	Start time period 1 Holiday timer output 4
TimeDp.Posts(47).T2	R,3	229	0	Stop time period 1 Holiday timer output 4
TimeDp.Posts(47).T3	R,3	230	0	Start time period 2 Holiday timer output 4
TimeDp.Posts(47).T4	R,3	231	0	Stop time period 2 Holiday timer output 4

4.7. Timer output 5

Signal name	Type	Modbus address	Default value	Description
TimeDp.Posts(48).T1	R,3	232	7	Start time period 1 Monday timer output 5 (HH.MM)
TimeDp.Posts(48).T2	R,3	233	16	Stop time period 1 Monday timer output 5
TimeDp.Posts(48).T3	R,3	234	0	Start time period 2 Monday timer output 5
TimeDp.Posts(48).T4	R,3	235	0	Stop time period 2 Monday timer output 5
TimeDp.Posts(49).T1	R,3	236	7	Start time period 1 Tuesday timer output 5
TimeDp.Posts(49).T2	R,3	237	16	Stop time period 1 Tuesday timer output 5
TimeDp.Posts(49).T3	R,3	238	0	Start time period 2 Tuesday timer output 5
TimeDp.Posts(49).T4	R,3	239	0	Stop time period 2 Tuesday timer output 5
TimeDp.Posts(50).T1	R,3	240	7	Start time period 1 Wedn. timer output 5
TimeDp.Posts(50).T2	R,3	241	16	Stop time period 1 Wedn. timer output 5
TimeDp.Posts(50).T3	R,3	242	0	Start time period 2 Wedn. timer output 5
TimeDp.Posts(50).T4	R,3	243	0	Stop time period 2 Wedn. timer output 5
TimeDp.Posts(51).T1	R,3	244	7	Start time period 1 Thursday timer output 5
TimeDp.Posts(51).T2	R,3	245	16	Stop time period 1 Thursday timer output 5
TimeDp.Posts(51).T3	R,3	246	0	Start time period 2 Thursday timer output 5
TimeDp.Posts(51).T4	R,3	247	0	Stop time period 2 Thursday timer output 5
TimeDp.Posts(52).T1	R,3	248	7	Start time period 1 Friday timer output 5
TimeDp.Posts(52).T2	R,3	249	16	Stop time period 1 Friday timer output 5
TimeDp.Posts(52).T3	R,3	250	0	Start time period 2 Friday timer output 5
TimeDp.Posts(52).T4	R,3	251	0	Stop time period 2 Friday timer output 5
TimeDp.Posts(53).T1	R,3	252	0	Start time period 1 Saturday timer output 5
TimeDp.Posts(53).T2	R,3	253	0	Stop time period 1 Saturday timer output 5
TimeDp.Posts(53).T3	R,3	254	0	Start time period 2 Saturday timer output 5
TimeDp.Posts(53).T4	R,3	255	0	Stop time period 2 Saturday timer output 5
TimeDp.Posts(54).T1	R,3	256	0	Start time period 1 Sunday timer output 5
TimeDp.Posts(54).T2	R,3	257	0	Stop time period 1 Sunday timer output 5
TimeDp.Posts(54).T3	R,3	258	0	Start time period 2 Sunday timer output 5
TimeDp.Posts(54).T4	R,3	259	0	Stop time period 2 Sunday timer output 5
TimeDp.Posts(55).T1	R,3	260	0	Start time period 1 Holiday timer output 5
TimeDp.Posts(55).T2	R,3	261	0	Stop time period 1 Holiday timer output 5
TimeDp.Posts(55).T3	R,3	262	0	Start time period 2 Holiday timer output 5
TimeDp.Posts(55).T4	R,3	263	0	Stop time period 2 Holiday timer output 5

4.8. Holidays

Signal name	Type	Modbus address	Default value	Description
TimeHp.Posts(0).FromDate	R,3	264	01.01	Start date holiday period 1 (MM.DD)
TimeHp.Posts(0).ToDate	R,3	265	01.01	End date holiday period 1 (MM.DD)
TimeHp.Posts(1).FromDate	R,3	266	01.01	Start date holiday period 2 (MM.DD)
TimeHp.Posts(1).ToDate	R,3	267	01.01	End date holiday period 2 (MM.DD)
TimeHp.Posts(2).FromDate	R,3	268	01.01	Start date holiday period 3 (MM.DD)
TimeHp.Posts(2).ToDate	R,3	269	01.01	End date holiday period 3 (MM.DD)
TimeHp.Posts(3).FromDate	R,3	270	01.01	Start date holiday period 4 (MM.DD)
TimeHp.Posts(3).ToDate	R,3	271	01.01	End date holiday period 4 (MM.DD)
TimeHp.Posts(4).FromDate	R,3	272	01.01	Start date holiday period 5 (MM.DD)
TimeHp.Posts(4).ToDate	R,3	273	01.01	End date holiday period 5 (MM.DD)
TimeHp.Posts(5).FromDate	R,3	274	01.01	Start date holiday period 6 (MM.DD)
TimeHp.Posts(5).ToDate	R,3	275	01.01	End date holiday period 6 (MM.DD)
TimeHp.Posts(6).FromDate	R,3	276	01.01	Start date holiday period 7 (MM.DD)
TimeHp.Posts(6).ToDate	R,3	277	01.01	End date holiday period 7 (MM.DD)
TimeHp.Posts(7).FromDate	R,3	278	01.01	Start date holiday period 8 (MM.DD)
TimeHp.Posts(7).ToDate	R,3	279	01.01	End date holiday period 8 (MM.DD)
TimeHp.Posts(8).FromDate	R,3	280	01.01	Start date holiday period 9 (MM.DD)
TimeHp.Posts(8).ToDate	R,3	281	01.01	End date holiday period 9 (MM.DD)
TimeHp.Posts(9).FromDate	R,3	282	01.01	Start date holiday period 10 (MM.DD)
TimeHp.Posts(9).ToDate	R,3	283	01.01	End date holiday period 10 (MM.DD)
TimeHp.Posts(10).FromDate	R,3	284	01.01	Start date holiday period 11 (MM.DD)
TimeHp.Posts(10).ToDate	R,3	285	01.01	End date holiday period 11 (MM.DD)
TimeHp.Posts(11).FromDate	R,3	286	01.01	Start date holiday period 12 (MM.DD)
TimeHp.Posts(11).ToDate	R,3	287	01.01	End date holiday period 12 (MM.DD)
TimeHp.Posts(12).FromDate	R,3	288	01.01	Start date holiday period 13 (MM.DD)
TimeHp.Posts(12).ToDate	R,3	289	01.01	End date holiday period 13 (MM.DD)
TimeHp.Posts(13).FromDate	R,3	290	01.01	Start date holiday period 14 (MM.DD)
TimeHp.Posts(13).ToDate	R,3	291	01.01	End date holiday period 14 (MM.DD)
TimeHp.Posts(14).FromDate	R,3	292	01.01	Start date holiday period 15 (MM.DD)
TimeHp.Posts(14).ToDate	R,3	293	01.01	End date holiday period 15 (MM.DD)
TimeHp.Posts(15).FromDate	R,3	294	01.01	Start date holiday period 16 (MM.DD)
TimeHp.Posts(15).ToDate	R,3	295	01.01	End date holiday period 16 (MM.DD)
TimeHp.Posts(16).FromDate	R,3	296	01.01	Start date holiday period 17 (MM.DD)

TimeHp.Posts(16).ToDate	R,3	297	01.01	End date holiday period 17 (MM.DD)
TimeHp.Posts(17).FromDate	R,3	298	01.01	Start date holiday period 18 (MM.DD)
TimeHp.Posts(17).ToDate	R,3	299	01.01	End date holiday period 18 (MM.DD)
TimeHp.Posts(18).FromDate	R,3	300	01.01	Start date holiday period 19 (MM.DD)
TimeHp.Posts(18).ToDate	R,3	301	01.01	End date holiday period 19 (MM.DD)
TimeHp.Posts(19).FromDate	R,3	302	01.01	Start date holiday period 20 (MM.DD)
TimeHp.Posts(19).ToDate	R,3	303	01.01	End date holiday period 20 (MM.DD)
TimeHp.Posts(20).FromDate	R,3	304	01.01	Start date holiday period 21 (MM.DD)
TimeHp.Posts(20).ToDate	R,3	305	01.01	End date holiday period 21 (MM.DD)
TimeHp.Posts(21).FromDate	R,3	306	01.01	Start date holiday period 22 (MM.DD)
TimeHp.Posts(21).ToDate	R,3	307	01.01	End date holiday period 22 (MM.DD)
TimeHp.Posts(22).FromDate	R,3	308	01.01	Start date holiday period 23 (MM.DD)
TimeHp.Posts(22).ToDate	R,3	309	01.01	End date holiday period 23 (MM.DD)
TimeHp.Posts(23).FromDate	R,3	310	01.01	Start date holiday period 24 (MM.DD)
TimeHp.Posts(23).ToDate	R,3	311	01.01	End date holiday period 24 (MM.DD)

4.9. Real Time Clock

Signal name	Type	Modbus address	Default value	Description
QSystem.Sec	X,3	406		Real time clock: Second 0-59
QSystem.Minute	X,3	407		Real time clock: Minute 0-59
QSystem.Hour	X,3	408		Real time clock: Hour 0-23
QSystem.WDay	X,3	409		Real time clock: Day of Week 1-7, 1=Monday
QSystem.Week	X,3	410		Real time clock: Week number 1-53
QSystem.Date	X,3	411		Real time clock: Day of month 1-31
QSystem.Month	X,3	412		Real time clock: Month 1-12
QSystem.Year	X,3	413		Real time clock: Year 0-99

5. Settings

5.1. General

Signal name	Type	Modbus address	Default value	Description
Ventilation1.Cor_OverHeatFastStop	L,1	1	0	Enable fast stop on overheat alarm
Ventilation1.Cor_CoolStepAlarmBlock	L,1	2	0	If set, block cooling step signals on alarm "Run Error P1-Cooler"
Ventilation1.Cor_AlaAcknowAll	L,1	3	0	Command to acknowledge all alarms
Ventilation1.Cor_ReservedL	L,1	7	0	Not used
Ventilation1.Cor_ReservedL	L,1	8	0	Not used
Ventilation1.Cor_ReservedL	L,1	9	0	Not used
Ventilation1.Cor_ReservedL	L,1	10	0	Not used
Ventilation1.Cor_ReservedL	L,1	11	0	Not used
Ventilation1.Cor_ReservedL	L,1	12	0	Not used
Ventilation1.Cor_ReservedL	L,1	13	0	Not used
Ventilation1.Cor_ReservedL	L,1	14	0	Not used
Ventilation1.Cor_ReservedL	L,1	15	0	Not used
Ventilation1.Cor_ReservedL	L,1	16	0	Not used
Ventilation1.Cor_ExchStartDelay	I,3	422	0 sec	Start delay Exchanger (sec)
Ventilation1.Cor_DXBlockLimit	R,3	423	0 °C	If lower outdoor temperature all DX-cooling steps are blocked
Ventilation1.Cor_CoolStepBlock1	R,3	428	0 %	If frequency output signal SAF is lower, Cool step 1 is blocked
Ventilation1.Cor_CoolStepBlock2	R,3	429	0 %	If frequency output signal SAF is lower, Cool step 2 is blocked
Ventilation1.Cor_CoolStepBlock3	R,3	430	0 %	If frequency output signal SAF is lower, Cool step 3 is blocked
Ventilation1.Cor_CoolStepBlockLimit1 (0)	R,3	431	13 °C	If lower outdoor temperature Cool step 1 is blocked
Ventilation1.Cor_CoolStepBlockLimit2	R,3	432	13 °C	If lower outdoor temperature Cool step 2 is blocked
Ventilation1.Cor_CoolStepBlockLimit3	R,3	433	13 °C	If lower outdoor temperature Cool step 3 is blocked

5.2. Control temp

Signal name	Type	Modbus address	Default value	Description
Ventilation4.Cor_SupplyPID_PGain	R,3	312	33 °C	P-band supply air control
Ventilation4.Cor_SupplyPID_ITime	R,3	313	100 sec	I-time supply air control
Ventilation4.Cor_ExhaustPID_PGain	R,3	314	100 °C	P-band exhaust air control
Ventilation4.Cor_ExhaustPID_ITime	R,3	315	300 sec	I-time exhaust air control
Ventilation4.Cor_RoomPID_PGain	R,3	316	100 °C	P-band room air control
Ventilation4.Cor_RoomPID_ITime	R,3	317	300 sec	I-time room air control
Ventilation4.Cor_FrostPID_PGain	R,3	318	100 °C	P-band switchdown mode
Ventilation4.Cor_FrostPID_ITime	R,3	319	100 sec	I-time switchdown mode
Ventilation4.Cor_DelcePID_PGain	R,3	320	100 °C	P-band de-icing
Ventilation4.Cor_DelcePID_ITime	R,3	321	100 sec	I-time de-icing

5.3. Control pressure

Signal name	Type	Modbus address	Default value	Description
Ventilation4.Cor_SAFPID_PGain	R,3	322	500 Pa	P-band pressure control SAF
Ventilation4.Cor_SAFPID_ITime	R,3	323	60 sec	I-time pressure control SAF
Ventilation4.Cor_EAFPID_PGain	R,3	324	500 Pa	P-band pressure control EAF
Ventilation4.Cor_EAFPID_ITime	R,3	325	60 sec	I-time pressure control EAF

5.4. Control flow

Signal name	Type	Modbus address	Default value	Description
Ventilation1.Cor_SAFAirFlowPID_PGain	R,3	326	1000 m ³ /h	P-band flow control SAF
Ventilation4.Cor_SAFPID_ITime	R,3	327	60 sec	I-time flow control SAF
Ventilation1.Cor_EAFAirFlowPID_PGain	R,3	328	1000 m ³ /h	P-band flow control EAF
Ventilation4.Cor_EAFPID_ITime	R,3	329	60 sec	I-time flow control EAF

5.5. Control humidity

Signal name	Type	Modbus address	Default value	Description
Ventilation4.Cor_HumidityPID_PGain	R,3	330	100 %RH	P-band humidity control
Ventilation4.Cor_HumidityPID_ITime	R,3	331	300 sec	I-time humidity control

5.6. Alarm limits

Signal name	Type	Modbus address	Default value	Description
Ventilation1.Cor_SupplyMaxDiff	R,3	332	10 °C	Max control deviation supply air temp
Ventilation1.Cor_SupplyHighAlarmLimit	R,3	333	30 °C	High alarm limit supply air temp
Ventilation1.Cor_SupplyLowAlarmLimit	R,3	334	10 °C	Low alarm limit supply air temp
Ventilation1.Cor_ExhaustAirTempHigh	R,3	335	30 °C	High alarm limit exhaust air temp
Ventilation1.Cor_ExhaustAirTempLow	R,3	336	10 °C	Low alarm limit exhaust air temp
Ventilation1.Cor_RoomHighLimit	R,3	337	30 °C	High alarm limit room air temp
Ventilation1.Cor_RoomLowLimit	R,3	338	10 °C	Low alarm limit room air temp
Ventilation1.Cor_FrostLimit	R,3	339	7 °C	Alarm limit frost protection
Ventilation1.Cor_SAFMaxDiffPressure	R,3	340	50 Pa	Max control deviation pressure SAF
Ventilation1.Cor_EAFMaxDiffPressure	R,3	341	50 Pa	Max control deviation pressure EAF
Ventilation1.Cor_EfficiencyLowLimit	R,3	342	50 %	Low efficiency

5.7. Alarm delays

Signal name	Type	Modbus address	Default value	Description
AlaData.AlaPt13_DelayValue	I,3	343	30 min	Alarm delay control deviation supply air temp
AlaData.AlaPt15_DelayValue	I,3	344	5 sec	Alarm delay high supply air temp
AlaData.AlaPt16_DelayValue	I,3	345	5 sec	Alarm delay low supply air temp
AlaData.AlaPt21_DelayValue	I,3	346	30 min	Alarm delay high exhaust air temp
AlaData.AlaPt22_DelayValue	I,3	347	30 min	Alarm delay low exhaust air temp
AlaData.AlaPt19_DelayValue	I,3	348	30 min	Alarm delay high room air temp
AlaData.AlaPt20_DelayValue	I,3	349	30 min	Alarm delay low alarm room air temp

AlaData.AlaPt25_DelayValue	I,3	350	0 sec	Alarm delay frost protection
AlaData.AlaPt31_DelayValue	I,3	351	30 min	Alarm delay max control deviation pressure SAF
AlaData.AlaPt32_DelayValue	I,3	352	30 min	Alarm delay max control deviation pressure EAF
AlaData.AlaPt26_DelayValue	I,3	353	30 min	Alarm delay low efficiency
AlaData.AlaPt1_DelayValue	I,3	354	120 sec	Alarm delay malfunction SAF
AlaData.AlaPt2_DelayValue	I,3	355	120 sec	Alarm delay malfunction EAF
AlaData.AlaPt3_DelayValue	I,3	356	5 sec	Alarm delay malfunction P1-Heating
AlaData.AlaPt4_DelayValue	I,3	357	5 sec	Alarm delay malfunction P1-Cooling
AlaData.AlaPt5_DelayValue	I,3	358	20 sec	Alarm delay malfunction P1-Exchanger
AlaData.AlaPt6_DelayValue	I,3	359	180 sec	Alarm delay filter monitoring
AlaData.AlaPt7_DelayValue	I,3	360	5 sec	Alarm delay flow switch
AlaData.AlaPt8_DelayValue	I,3	361	0 sec	Alarm delay frost protection
AlaData.AlaPt9_DelayValue	I,3	362	0 sec	Alarm delay frost protection digital input
AlaData.AlaPt10_DelayValue	I,3	363	0 sec	Alarm delay fire alarm
AlaData.AlaPt12_DelayValue	I,3	364	0 sec	Alarm delay external alarm
AlaData.AlaPt23_DelayValue	I,3	365	0 sec	Alarm delay electric heater
AlaData.AlaPt27_DelayValue	I,3	366	5 sec	Alarm delay sensor error
AlaData.AlaPt29_DelayValue	I,3	367	20 sec	Alarm delay rotation guard exchanger

6. Manual/Auto

6.1. Manual/Auto

Signal name	Type	Modbus address	Default value	Description
Ventilation1.Cor_VentAutoMode	X,3	368	2	Running mode air unit: 0=Manual off 1=Manual on 2=Auto
Ventilation4.Cor_SupplyPID_Select	X,3	369	2	Supply temp controller mode: 0=Manual off 1=Manual on 2=Auto
Ventilation4.Cor_SupplyPID_ManSet	R,3	370	0 %	Supply temp controller output if manual on mode
Ventilation1.Cor_SAFAutoMode(0)	X,3	371	3	Running mode SAF: 0=Off 1=Manual half speed 2=Manual full speed 3=Auto
Ventilation1.Cor_EAFAutoMode	X,3	372	3	Running mode EAF: 0=Off 1=Manual half speed 2=Manual full speed 3=Auto
Ventilation1.Cor_SAFFrequencyAuto Mode	X,3	373	3	Running mode frequency controlled SAF 0=Manual 1=Man. half speed 2=Man. Fullspeed 3=Auto
Ventilation1.Cor_SAFManual	R,3	374	0 %	Frequencer controller output SAF if manual mode
Ventilation1.Cor_EAFFrequencyAuto Mode	X,3	375	3	Running mode frequency controlled EAF 0=Manual 1=Man. half speed 2=Man. Fullspeed 3=Auto
Ventilation1.Cor_EAFManual	R,3	376	0 %	Frequencer controller output EAF if manual mode

Ventilation1.Cor_HeatCoilAutoMode(0)	X,3	377	2	Running mode Heating: 0=Off 1=Manual 2=Auto
Ventilation1.Cor_HeatCoilManual(0)	R,3	378	0	Heating controller output if manual mode
Ventilation1.Cor_ExchCoilAutoMode	X,3	379	2	Running mode Exchanger: 0=Off 1=Manual 2=Auto
Ventilation1.Cor_ExchCoilManual	R,3	380	0	Exchanger controller output if manual mode
Ventilation1.Cor_CoolCoilAutoMode	X,3	381	2	Running mode Cooling: 0=Off 1=Manual 2=Auto
Ventilation1.Cor_CoolCoilManual	R,3	382	0	Cooling controller output if manual mode
Ventilation4.Cor_HumidityPID_Select	X,3	383	2	Running mode Humidification/Dehumidification: 0=Off 1=Manual 2=Auto
Ventilation4.Cor_HumidityPID_ManSet	R,3	384	0	Humidification/Dehumidification controller output if manual mode
Ventilation1.Cor_HeatPumpAutoMode(0)	X,3	385	2	Running mode P1-Heating: 0=Manual off 1=Manual on 2=Auto
Ventilation1.Cor_ExchPumpAutoMode	X,3	386	2	Running mode P1-Exchanger: 0=Manual off 1=Manual on 2=Auto
Ventilation1.Cor_CoolPumpAutoMode	X,3	387	2	Running mode P1-Cooling: 0=Manual off 1=Manual on 2=Auto
Ventilation1.Cor_FireDamperAutoMode	X,3	388	2	Running mode fire damper: 0=Close 1=Open 2=Auto
Ventilation1.Cor_FreshAirDamperAutoMode	X,3	389	2	Running mode fresh air damper: 0=Close 1=Open 2=Auto
Ventilation1.Cor_RecycleAirDamperAutoMode	X,3	390	2	Running mode recirculation damper: 0=Close 1=Open 2=Auto
Ventilation1.Cor_ExtractAirDamperAutoMode	X,3	391	2	Running mode extract air damper: 0=Close 1=Open 2=Auto

TimePro. TimeGroupStatusFanFullSpeed	X,3	393	4	Manual/Auto Full Speed time channel 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusFanHalfSpeed	X,3	394	4	Manual/Auto Half Speed time channel 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup1	X,3	395	4	Manual/Auto Timer output 1 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup2	X,3	396	4	Manual/Auto Timer output 2 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup3	X,3	397	4	Manual/Auto Timer output 3 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup4	X,3	398	4	Manual/Auto Timer output 4 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
TimePro. TimeGroupStatusCor_ExtraTimeGroup5	X,3	399	4	Manual/Auto Timer output 5 0=Manual-Off 1=Manual-On 2=Forced Off 3=Forced On 4=Auto
Ventilation1.Cor_HumidityAutoMode	X,3	421	2	Running mode humidity start signal 0=Off 1=On 2=Auto
Ventilation4.Cor_ExtraUnitPID1_Select(0)	X,3	437	2	Manual/Auto Extra Unit Controller 0=Off 1=Manual 2=Auto
Ventilation4.Cor_ExtraUnitPID1_ManSet(0)	R,3	438	0	Extra Unit Controller output if manual mode

7. Alarm status

7.1. Alarm status

Signal name	Type	Modbus address	Default value	Description
AlaData.AlaPt1_Status	X,4	71		Run Error Supply Air Fan 0=Not used 1=Normal 2=Blocked 3=Acknowledge 4=Not used 5=Cancelled 6=Not used 7=Alarm
AlaData.AlaPt2_Status	X,4	72		Run Error Exhaust Air Fan
AlaData.AlaPt3_Status	X,4	73		Run Error P1-Heater
AlaData.AlaPt4_Status	X,4	74		Run Error P1-Cooler
AlaData.AlaPt5_Status	X,4	75		Run Error P1-Exchanger
AlaData.AlaPt6_Status	X,4	76		Filter guard
AlaData.AlaPt7_Status	X,4	77		Flow guard
AlaData.AlaPt8_Status	X,4	78		External frost guard
AlaData.AlaPt9_Status	X,4	79		Deicing pressure guard
AlaData.AlaPt10_Status	X,4	80		Fire alarm
AlaData.AlaPt11_Status	X,4	81		External switch
AlaData.AlaPt12_Status	X,4	82		External alarm
AlaData.AlaPt13_Status	X,4	83		Supply Air control error
AlaData.AlaPt14_Status	X,4	84		Not used
AlaData.AlaPt15_Status	X,4	85		High supply air temp
AlaData.AlaPt16_Status	X,4	86		Low supply air temp
AlaData.AlaPt17_Status	X,4	87		Supply Air Fan max limit
AlaData.AlaPt18_Status	X,4	88		Supply Air Fan min limit
AlaData.AlaPt19_Status	X,4	89		High room temp

AlaData.AlaPt20_Status	X,4	90		Low room temp
AlaData.AlaPt21_Status	X,4	91		High exhaust air temp
AlaData.AlaPt22_Status	X,4	92		Low exhaust air temp
AlaData.AlaPt23_Status	X,4	93		Electric heating is overheated
AlaData.AlaPt24_Status	X,4	94		Frost risk
AlaData.AlaPt25_Status	X,4	95		Low frost guard temp
AlaData.AlaPt26_Status	X,4	96		Low efficiency
AlaData.AlaPt27_Status	X,4	97		Sensor error outdoor temp
AlaData.AlaPt28_Status	X,4	98		Analogue deicing
AlaData.AlaPt29_Status	X,4	99		Rotation guard exchanger
AlaData.AlaPt30_Status	X,4	100		Fire damper is out of operation
AlaData.AlaPt31_Status	X,4	101		Supply Air Fan control error
AlaData.AlaPt32_Status	X,4	102		Exhaust Air Fan control error
AlaData.AlaPt33_Status	X,4	103		Supply Air Fan external operation
AlaData.AlaPt34_Status	X,4	104		Exhaust Air Fan external operation
AlaData.AlaPt35_Status	X,4	105		Ventilation Manual mode
AlaData.AlaPt36_Status	X,4	106		Manual supply air control
AlaData.AlaPt37_Status	X,4	107		Manual Supply Air Fan mode
AlaData.AlaPt38_Status	X,4	108		Manual Supply Air Fan freq control
AlaData.AlaPt39_Status	X,4	109		Manual Exhaust Air Fan mode
AlaData.AlaPt40_Status	X,4	110		Manual Exhaust Air Fan freq control
AlaData.AlaPt41_Status	X,4	111		Manual heater control
AlaData.AlaPt42_Status	X,4	112		Manual cooler control
AlaData.AlaPt43_Status	X,4	113		Manual exchanger control
AlaData.AlaPt44_Status	X,4	114		Manual P1-Heater
AlaData.AlaPt45_Status	X,4	115		Manual P1-Cooler
AlaData.AlaPt46_Status	X,4	116		Manual P1-Exchanger
AlaData.AlaPt47_Status	X,4	117		Manual fire damper
AlaData.AlaPt48_Status	X,4	118		Internal battery error
AlaData.AlaPt49_Status	X,4	137		Sensor error Supply Air temp
AlaData.AlaPt50_Status	X,4	138		Sensor error Exhaust Air temp
AlaData.AlaPt51_Status	X,4	139		Sensor error Room temp 1
AlaData.AlaPt52_Status	X,4	140		Sensor error Room temp 2
AlaData.AlaPt53_Status	X,4	141		Sensor error Extract Air temp
AlaData.AlaPt54_Status	X,4	142		Sensor error Extra sensor
AlaData.AlaPt55_Status	X,4	143		Sensor error SAF pressure
AlaData.AlaPt56_Status	X,4	144		Sensor error EAF pressure
AlaData.AlaPt57_Status	X,4	145		Sensor error Deicing temp

AlaData.AlaPt58_Status	X,4	146		Sensor error Frost Protection temp
AlaData.AlaPt59_Status	X,4	147		Sensor error CO2
AlaData.AlaPt60_Status	X,4	148		Sensor error Humidity room
AlaData.AlaPt61_Status	X,4	149		Sensor error Humidity duct

7.2. Alarm points

Signal name	Type	Modbus address	Default value	Description
Ventilation2.Cor_AlaPt(1)	L,2	33		Run Error Supply Air Fan 0=No alarm 1=Alarm
Ventilation2.Cor_AlaPt(2)	L,2	34		Run Error Exhaust Air Fan
Ventilation2.Cor_AlaPt(3)	L,2	35		Run Error P1-Heater
Ventilation2.Cor_AlaPt(4)	L,2	36		Run Error P1-Cooler
Ventilation2.Cor_AlaPt(5)	L,2	37		Run Error P1-Exchanger
Ventilation2.Cor_AlaPt(6)	L,2	38		Filter guard
Ventilation2.Cor_AlaPt(7)	L,2	39		Flow guard
Ventilation2.Cor_AlaPt(8)	L,2	40		External frost guard
Ventilation2.Cor_AlaPt(9)	L,2	41		Deicing pressure guard
Ventilation2.Cor_AlaPt(10)	L,2	42		Fire alarm
Ventilation2.Cor_AlaPt(11)	L,2	43		External switch
Ventilation2.Cor_AlaPt(12)	L,2	44		External alarm
Ventilation2.Cor_AlaPt(13)	L,2	45		Supply Air control error
Ventilation2.Cor_AlaPt(14)	L,2	46		Deviation Humidity control
Ventilation2.Cor_AlaPt(15)	L,2	47		High supply air temp
Ventilation2.Cor_AlaPt(16)	L,2	48		Low supply air temp
Ventilation2.Cor_AlaPt(17)	L,2	49		Supply Air Fan max limit
Ventilation2.Cor_AlaPt(18)	L,2	50		Supply Air Fan min limit
Ventilation2.Cor_AlaPt(19)	L,2	51		High room temp
Ventilation2.Cor_AlaPt(20)	L,2	52		Low room temp
Ventilation2.Cor_AlaPt(21)	L,2	53		High exhaust air temp
Ventilation2.Cor_AlaPt(22)	L,2	54		Low exhaust air temp
Ventilation2.Cor_AlaPt(23)	L,2	55		Electric heating is overheated
Ventilation2.Cor_AlaPt(24)	L,2	56		Frost risk
Ventilation2.Cor_AlaPt(25)	L,2	57		Low frost guard temp
Ventilation2.Cor_AlaPt(26)	L,2	58		Low efficiency

Ventilation2.Cor_AlaPt(27)	L,2	59		Sensor error outdoor temp
Ventilation2.Cor_AlaPt(28)	L,2	60		Analogue deicing
Ventilation2.Cor_AlaPt(29)	L,2	61		Rotation guard exchanger
Ventilation2.Cor_AlaPt(30)	L,2	62		Fire damper is out of operation
Ventilation2.Cor_AlaPt(31)	L,2	63		Supply Air Fan control error
Ventilation2.Cor_AlaPt(32)	L,2	64		Exhaust Air Fan control error
Ventilation2.Cor_AlaPt(33)	L,2	65		Supply Air Fan external operation
Ventilation2.Cor_AlaPt(34)	L,2	66		Exhaust Air Fan external operation
Ventilation2.Cor_AlaPt(35)	L,2	67		Ventilation Manual mode
Ventilation2.Cor_AlaPt(36)	L,2	68		Manual supply air control
Ventilation2.Cor_AlaPt(37)	L,2	69		Manual Supply Air Fan mode
Ventilation2.Cor_AlaPt(38)	L,2	70		Manual Supply Air Fan freq control
Ventilation2.Cor_AlaPt(39)	L,2	71		Manual Exhaust Air Fan mode
Ventilation2.Cor_AlaPt(40)	L,2	72		Manual Exhaust Air Fan freq control
Ventilation2.Cor_AlaPt(41)	L,2	73		Manual heater control
Ventilation2.Cor_AlaPt(42)	L,2	74		Manual cooler control
Ventilation2.Cor_AlaPt(43)	L,2	75		Manual exchanger control
Ventilation2.Cor_AlaPt(44)	L,2	76		Manual P1-Heater
Ventilation2.Cor_AlaPt(45)	L,2	77		Manual P1-Cooler
Ventilation2.Cor_AlaPt(46)	L,2	78		Manual P1-Exchanger
Ventilation2.Cor_AlaPt(47)	L,2	79		Manual fire damper
Ventilation2.Cor_AlaPt(48)	L,2	80		Internal battery error
Ventilation2.Cor_AlaPt(49)	L,2	90		Sensor error Supply Air temp
Ventilation2.Cor_AlaPt(50)	L,2	91		Sensor error Exhaust Air temp
Ventilation2.Cor_AlaPt(51)	L,2	92		Sensor error Room temp 1
Ventilation2.Cor_AlaPt(52)	L,2	93		Sensor error Room temp 2
Ventilation2.Cor_AlaPt(53)	L,2	94		Sensor error Extract Air temp
Ventilation2.Cor_AlaPt(54)	L,2	95		Sensor error Extra sensor
Ventilation2.Cor_AlaPt(55)	L,2	96		Sensor error SAF pressure
Ventilation2.Cor_AlaPt(56)	L,2	97		Sensor error EAF pressure
Ventilation2.Cor_AlaPt(57)	L,2	98		Sensor error Deicing temp
Ventilation2.Cor_AlaPt(58)	L,2	99		Sensor error Frost Protection temp
Ventilation2.Cor_AlaPt(59)	L,2	100		Sensor error CO2
Ventilation2.Cor_AlaPt(60)	L,2	101		Sensor error Humidity room
Ventilation2.Cor_AlaPt2(1)	L,2	102		Sensor error Humidity duct
Ventilation2.Cor_ReservedActive(10)	L,2	103		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	104		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	105		Not used

Ventilation2.Cor_ReservedActive(10)	L,2	106		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	107		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	108		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	109		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	110		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	111		Not used
Ventilation2.Cor_ReservedActive(10)	L,2	112		Not used

7.3. Alarm Acknowledging, Blocking and Unblocking

Signal name	Type	Modbus address	Default value	Description
Alarms.AlaAcknow	X,3	400	255	External alarm acknowledge by setting this signal to the alarm number that should be acknowledge.
Alarms.AlaBlock	X,3	401	255	External alarm blocking by setting this signal to the alarm number that should be blocked.
Alarms.AlaUnBlock	X,3	402	255	External alarm unblocking by setting this signal to the alarm number that should be unblocked.
Ventilation1.Cor_AlaAcknowAll	L,1	3	0	Command to acknowledge all alarms