

CLIMATIX™
BACNET COMMUNICATION MODULE

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VALIDITY

This document applies to the following products:

NAME	TYPE (ASN)	SHORT NAME
BACnet/IP communication module	POL908.00/STD	BACnet/IP module
BACnet MS/TP	POL904.00/STD	BACnet MS/TP
BACnet/IP/SmartWeb	POL909.80/STD	BACnet IP/SmartWeb

IMPORTANT INFORMATION ON SAFETY

FIELD OF APPLICATION

Use BACnet communication modules only for control and monitoring functions in ventilation, air conditioning and refrigeration plants.

INTENDED USE

Trouble-free and safe product operation of the above products presupposes transport, storage, mounting, installation, and commissioning as intended as well as careful operation.

ELECTRICAL INSTALLATION



Fuses, switches, wiring and grounding must comply with local safety regulations for electrical installations.

WIRING



When wiring, strictly separate AC 230 V mains voltage from AC 24 V safety extralow voltage (SELV) to protect against electrical shock!

COMMISSIONING AND MAINTENANCE

Only qualified staff trained accordingly may prepare for use, commission, and maintain BACnet communication modules.

MAINTENANCE

Maintenance of BACnet communication modules generally only means regular cleaning. We recommend removing dust and dirt from system components installed in the control panels during standard service.

FAULTS



Only authorized staff may diagnose and correct faults and recommission the plant. This applies to working within the panel as well (e.g. testing or changing fuses).

STORAGE AND TRANSPORT

Refer to the environmental conditions specified in the respective data sheets for storage and transport. If in doubt, contact your supplier.

DISPOSAL

Devices contain electrical and electronic components; do not dispose of them in household garbage.

Observe all local and applicable laws.

TRADEMARKS, LEGAL OWNERS

The table below lists the third-party trademarks used in this document and their legal owners.

The use of trademarks is subject to international and domestic provisions of the law.

TRADEMARKS	LEGAL OWNER
BACnet	American National Standard (ANSI/ASHRAE 135-1995)

All product names listed in the table are registered (®) or not registered (™) trademarks of the owner listed in the table. We forgo the labeling (e.g. using the symbols ® and ™) of trademarks for the purposes of legibility based on the reference in this section.

EXEMPTION FROM LIABILITY

FläktGroup assumes no liability to the extent allowed under the law for any losses resulting from a failure to comply with the aforementioned points or for the improper compliance of the same.

MODULES' TASK

BACnet communication modules help integrate controller types POL6XX of the Climatix family in networks featuring the BACnet protocol.

BRIEF DESCRIPTION

Below is a description of the device and its primary properties:



TYPE (ASN)	PROPERTIES
POL908.XX/XXX	- For integration in BACnet/IP networks. - Tooling via Ethernet. - Network parameters can be configured via the Climatix POL6XX controller. - Functionality as BACnet server and BACnet client.



The communication module complies with the following standardized profile for BACnet equipment:

B-AAC BACnet Advanced Application Controller. See the appendix for "BACnet Interoperability Building Blocks" (BIBBs) and standard object types etc. supported:

BACnet/IP module application

SERVER FUNCTION

Climatix controllers POL6XX provide all necessary process data from the automation and field levels for monitoring and operation of HVAC plants to the building management station.

CLIENT FUNCTION

Climatix controllers POL6XX are able to interchange process data via value subscription, e.g. read and pass on the current outside temperature value (°C) of a common sensor.

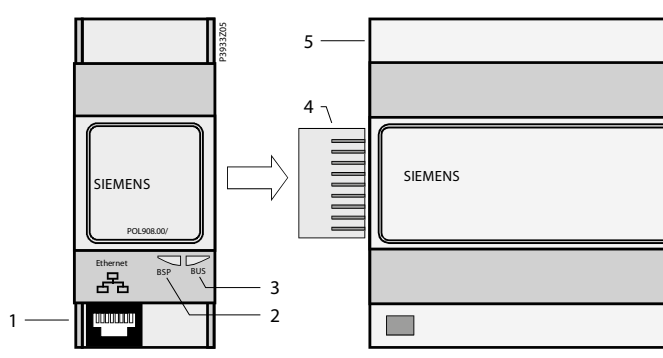
EXAMPLE

The figure below shows a simple example for integration of Climatix controllers in a BACnet/IP network:

BACNET/IP MODULE

DESIGN

The figure shows the BACnet/IP module. It is connected to the Climatix controller via the internal communication extension bus. This is done via plug connection on the left side of the controller.



ELEMENTS AND CONNECTIONS

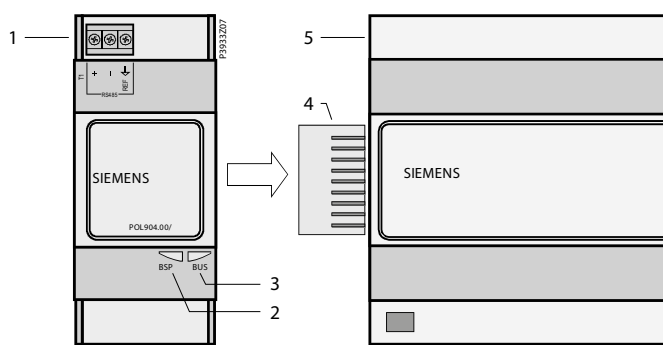
The elements and connections in the figure are:

POS.	ELEMENT / CONNECTION
1	Ethernet interface 10/100 Mbit (IEEE 802.3U), RJ45 plug, 8-pin.
2	Status display "BSP" (Board Support Package).
3	Status display "BUS" (bus connections / bus traffic o.k.).
4	Plug connection "Communication extension bus".
5	Climatix controller POL6XX.

BACNET/IP MODULE

DESIGN

The figure shows the BACnet MS/TP module. It is connected to the Climatix controller via the internal communication extension bus. This is done via plug connection on the left side of the controller.



ELEMENTS AND CONNECTIONS

The elements and connections in the figure are:

POS.	ELEMENT / CONNECTION
1	Interface RS485, plug-in terminals with screw/terminal connections.
2	Status display "BSP" (Board Support Package).
3	Status display "BUS" (bus connections / bus traffic o.k.).
4	Plug connection "Communication extension bus".
5	Climatix controller POL6XX.

STATUS DISPLAYS

The status displays "BSP" and "BUS" are bi-color LEDs in red and green. A viewer will see yellow when both LEDs are lit simultaneously.

"BSP" LED

This LED informs on the status of the "Board Support Package" (BSP). Color and flashing frequency of the LED:

COLOR	FLASHING FREQUENCY	MEANING / MODE
Red / yellow	1 s "on" / 1 s "off"	Upgrade mode.
Green	Steady "on"	BSP operating and communication with controller working.
Yellow	Steady "on"	BSP operating, but no communication with controller.
Red	Flashing at 2Hz	BSP error (software error).
Red	Steady "on"	Hardware fault.

"BUS" LED

This LED shows the status of external communication with the bus, not to the controller.

Color and flashing frequency of the LED:

COLOR	FLASHING FREQUENCY	MEANING / MODE
Green	Steady "on"	Communication active.
Red	Steady "on"	Communication interrupted.
Yellow	Steady "on"	Initializing – no communication yet.

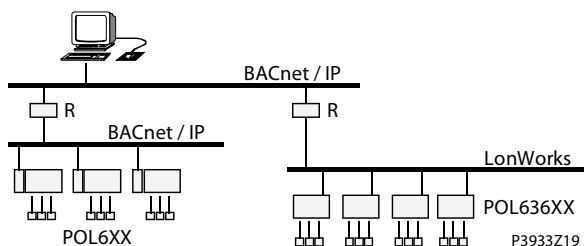


Power supply is outside the allowed range if both LEDs are dark.

BACNET IP

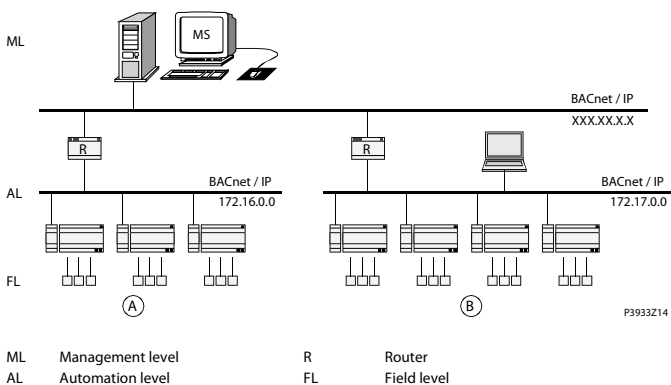
BACnet internetworks

A BACnet internetwork consists of two or more BACnet networks. They may be BACnet/IP networks or implemented with other BACnet data-link protocols (e.g. BACnet/LonWorks).



BACnet/IP networks

A BACnet/IP network consists of one or more IP subnets (IP domains) assigned the same BACnet network number.



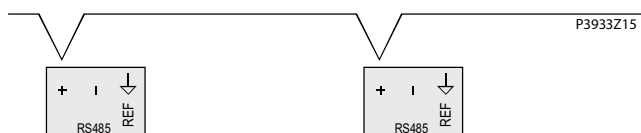
TOPOLOGIES BACNET MS/TP

RS485 AND BACNET

BACnet MS/TP uses the physical layer of interface RS485, which is low cost and simple. However, observe a few important points to guarantee full functionality. Select the right topology to begin with.

BEST: INDIVIDUAL LINE

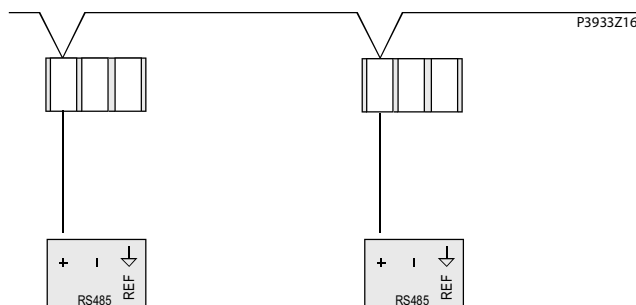
The best topology is a single line (line topology), with the bus cable connected directly to the individual devices. This type of connection has the least problems.



Note: Only one line + (TX) is shown for the example.

IMPAIRMENT DUE TO INTERMEDIATE TERMINALS

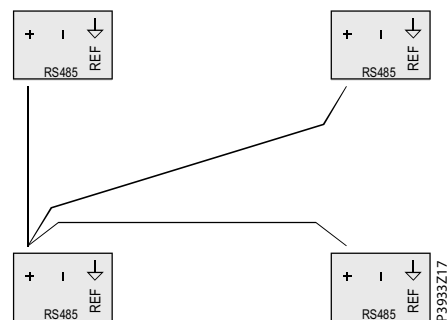
Connecting network devices via intermediate terminals can result in reflections and harmonics of electrical signals. Long, not twisted intermediate lines obviously increase the risk of interference.



Note: Only one line + (TX) is shown for the example.

ERROR-PRONE: STAR

Avoid star topologies because errors/problems are hard to located and remove.



Note: Only one line + (TX) is shown for the example.

BACNET SERVER FUNCTIONALITY

SUPPORTED STANDARD

The BACnet/IP module supports BACnet standard B-AAC (BACnet Advanced Application Controller).

OBJECT TYPES SUPPORTED

The BACnet/IP module supports the following BACnet standard object types:

CLIMATIX OBJECT	BACNET OBJECT	COMMENT
Clock	Device	
aoDeviceGroup	Device	
aoDiagnostic	Device	
aoAnalogInput	AnalogInput	
aoAnalogOutput	AnalogOutput	
aoAnalogValue	AnalogValue	No Alarm
aoSetpointValue	AnalogValue	No Alarm
aoDisplayValue	AnalogValue	No Alarm
aoSetpointValueLimit	AnalogValue	No Alarm
aoBinaryInput	BinaryInput	
aoBinaryOutput	BinaryOutput	
aoBinaryValue	BinaryValue	
aoMultistateInput	MultiStateInput	
aoMultistateOutput	MultiStateOutput	
aoMultistateValue	MultiStateValue	
aoSetpointMultistate	MultiStateValue	No Alarm
aoDisplayMultistate	MultiStateValue	No Alarm
aoSchedule	Schedule	No Alarm
aoScheduleWord	Schedule	No Alarm
aoCalendar	Calendar	No Alarm
MessageClass	NotificationClass	



In the future, this device may support other objects such as "LoopController" or "Trend". For information on the current status, see: appendix

DIFFERENT ALARM HANDLING

Alarms of a BACnet client are handled differently from those of Climatix:

- In BACnet, each objects in alarm is acknowledged and reset as well as transitioned from "ToNormal", "ToOffNormal", and "ToFault".
- Climatix objects do not support this transition, but rather only transitions to "ToNormal". This is done via general acknowledgement for each object, not for each individual object in alarm. The behavior described above means that acknowledgement and reset in BACnet does not impact pending/unhandled alarms in Climatix. Acknowledgement in BACnet is only information that the alarm has been identified.

DIFFERENT ALARM HANDLING

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i The behavior described above means that acknowledgement and reset in BACnet does not impact pending/unhandled alarms in Climatix. Acknowledgement in BACnet is only information that the alarm has been identified.

WORKAROUND

The following workaround is needed to reset a BACnet alarm:
An additional BACnet object "MultiStateValue" named "Reset" is used for general acknowledgement in Climatix.

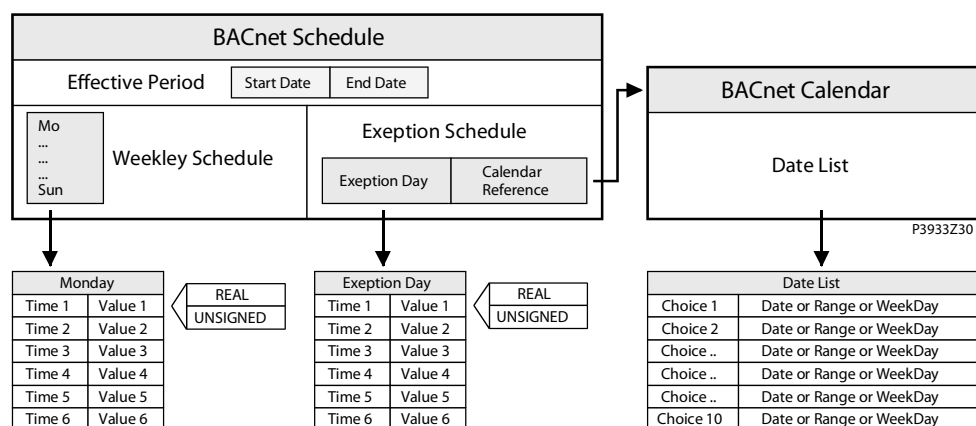
SCHEDULE AND CALENDAR

The figure shows the Climatix schedule concept for BACnet:

EXPLANATIONS (FIGURE)

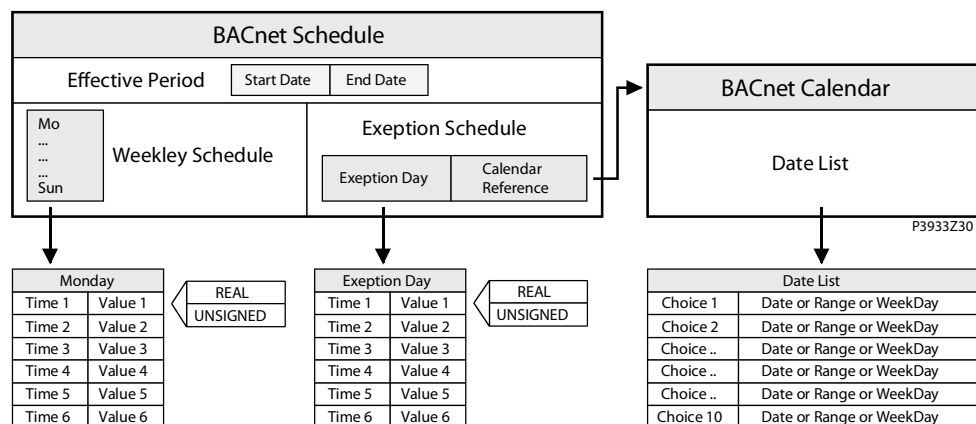
The elements and functions in the figure are:

ELEMENT	FUNCTION
BACnet Schedule	BACnet object "Schedule" defines a weekday and exception day program as well as an actual time period during which the schedule is active.
Weekly Schedule	Each day – from Monday to Sunday – allows for six different entries "Time/Value". Value REAL(-FLOAT), DIGITAL, or UNSIGNED (multistate) depends on the Climatix object connected to the program.
Exception Schedule	The exception day program consist of a list of exception days. Climatix only offers one exception day. It refers to the BACnet Calendar object. The exception day is defined like any day of the weekly schedule. The BACnet calendar then determines when the exception day is active. It takes priority over the weekly schedule.
Date	Date defines a start date. The present value is active for this date. – Example 1: *,07/04/25 (April 25, 2007). – Example 2: Sun,*/04/25 (each 25th of April, provided it is a Sunday).



SCHEDULE AND CALENDAR

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Date	Date defines a start date. The present value is active for this date. – Example 1: *,07/04/25 (April 25, 2007). – Example 2: Sun,*/04/25 (each 25th of April, provided it is a Sunday).
Range	Date range defining start and end date. The present value is active for this range. Entry format: Same as for Date.
WeekDay	This entry allows for selecting a special day as exception day. Entry format: Week of month (number), day (name), month. – Example 1: 02/Mo/Mar (second Monday in March, every year). – Example 2: */Tu/* (every Tuesday).

CONFIGURE BACNET/IP MODULE

TWO POSSIBILITIES

There are two possibilities to configure the BACnet/IP module:

- Via operator unit (HMI-DM and integrated HMI).
- Via the module's web page.

A. CONFIGURATION VIA OPERATOR UNIT

Use the operator unit to enter BACnet basic settings. Individual parameters in "Communication settings":

PARAMETERS	EXPLANATION
BnDevName	BACnet device name.
BACnetDevID	BACnet device ID.
BACnetPort	BACnet port (UDP port), normally 0xBAC0 = 47808
Language	Determines the active "Languages" column in mapping file "BACnet_Server.csv".
WINSName	POL908_XX XX XX
IP	Module IP.
Mask	Module mask.
Gateway	Module gateway.
DHCP	DHCP active/passive.
Recipient Device 1-3	Fix recipient device 1-3
US UnitSystem	Change dimensions.
Unicode	Set the parameter to "active" ("passive" is default) if Unicode characters are used.
UseDefault	Reset to default settings.
SecurityLevel	Set security level for BACnet.
SoftwareVersion	Module version.
CommFailure	Active = Communications error.
State	Current controller status.



The "Communication settings" offer some application and module-specific menu items in addition to BACnet basic settings.

B. CONFIGURE ON WEB PAGE

Enter the IP address or WINS name in the browser to open the module's web page. We differentiate between the following tasks:

1. Enter basic settings.
2. Enter BBMD settings (incl. any foreign devices).

1. ENTER BASIC SETTINGS

Enter the basic settings via the BACnet Config menu:

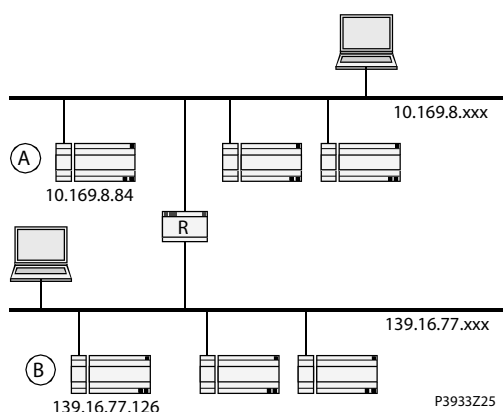
P3933004

2. ENTER BBMD SETTINGS

You must define and parameterize "BACnet Broadcast Management Devices" (BBMDs) if a BACnet/IP network comprises several subnets. This allows for broadcasts via routers to all network members.

APPLICATION EXAMPLE WITHOUT FOREIGN DEVICE

The following network with two subnets only contains servers (controllers) and to set connected clients (PCs). All members can communicate with each other if one BBMD is defined per subnet.



"BBMD SETTINGS" WINDOW

The web page for the corresponding controller offers the BBMD Settings window to parameterize BBMDs (here: Controller A):

P393 3005

SETTINGS

The window offers the following options:

ELEMENT	DESCRIPTION
Enable BBMD	Select BBMD function for this controller.
Update BBMD	Assume settings and refresh display.
FDT present	Checkbox: Foreign Device Table yes / no Text field: Max. number of entries (possible foreign devices).
Update FDT	Assume settings and refresh display.
Two-Hop Forwarding	Select two-hop forwarding.
Update Two Hops	Assume settings and refresh display.
IP Address	IP address for the partner BBMD on other subnet, e.g. for the above case: – Partner for controller "A": 139.16.77.126 – Partner for controller "B": 10.169.8.84
UDP Port	Same as for "IP Address".
Update	Assume settings and refresh display.
New	IP address for BBMD server in a third subnet. Important: Enter the setting for all three BACnet servers!

CONFIGURE BACNET MS/TP MODULE

TOOL/SITE

Configure the BACnet/IP module as follows:

- Via operator unit (HMI-DM and integrated HMI). See "Communication settings" for individual parameters.

CONFIGURATION TABLE

Individual parameters and their functions:

PARAMETERS	EXPLANATION
BnDevName	BACnet device name.
BACnetDevID	BACnet device ID.
Language	Determines the active "Languages" column in mapping file "BACnet_Server.csv".
MSTP-Addr	MSTP address.
MSTP-TermResistor	MSTP terminating resistance.
MSTP-Baud	Baud rate.
MSTP MaxMaster	Max number of master MS/TP devices in MS/TP network.
MSTP MxInfoFram	Max number of simultaneous polls/replies.
Recipient Device 1-3	Fixed recipient device 1-3.
US UnitSystem	Change dimensions.
Unicode	Set the parameter to "active" ("passive" is default) if Unicode characters are used.
UseDefault	Reset to default settings.
SecurityLevel	Set security level for BACnet.
SoftwareVersion	Module version.
CommFailure	Active = Communications error.
State	Current controller status.

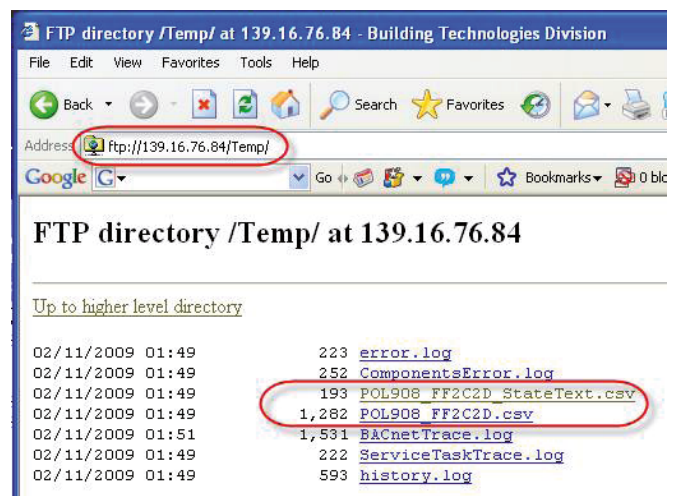
i The "Communication settings" offer some application and module-specific menu items in addition to BACnet basic settings.

EXPORT EDE FILES

PROCEDURE

Export files containing information on the BACnet objects are required for integration in a management station. These files can be exported via ftp as follows:

STEP	ACTION
1	Open ftp for the module in the browser (Internet Explorer): ftp://IP address of the module.
2	Go to Temp and copy the two files selected in the screenshot below.



P3933009

APPENDIX, BACNET OBJECT TYPES

OVERVIEW

Climatix supports the object types listed below:

Object type	Supported	Can be created dynamically	Can be deleted dynamically
Analog Input	☒	☐	☐
Analog Output	☒	☐	☐
Analog Value	☒	☐	☐
Binary Input	☒	☐	☐
Binary Output	☒	☐	☐
Binary Value	☒	☐	☐
Calendar	☒	☐	☐
Command	☐	☐	☐
Device	☒	☐	☐
Event Enrollment	☐	☐	☐
File	☐	☐	☐
Group	☐	☐	☐
Loop	☐	☐	☐
Multi-State Input	☒	☐	☐
Multi-State Output	☒	☐	☐
Multi-State Value	☒	☐	☐
Notification Class	☒	☐	☐
Program	☐	☐	☐
Schedule	☒	☐	☐
Averaging	☐	☐	☐
Trend Log	☐	☐	☐
Life-Safety-Point	☐	☐	☐
Life-Safety-Zone	☐	☐	☐
Accumulator	☐	☐	☐
Pulse-Converter	☐	☐	☐

STANDARD OBJECT TYPES DESCRIPTION

BINARY INPUT	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writeable (X) = Writeable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Present_Value Status_Flags Out_Of_Service Event_State Inactive_Text Active_Text Polarity Notification_Class Reliability Acked_Transitions Event_Enable Alarm_Value Notify_Type Time_Delay Event_Time_Stamps	(X) X X (X) X X	
BINARY INPUT	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writeable (X) = Writeable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Present_Value Status_Flags Out_Of_Service Event_State Inactive_Text Active_Text Notification_Class Reliability Acked_Transitions Event_Enable Notify_Type Time_Delay Event_Time_Stamps Polarity Feedback_Value Priority_Array Relinquish_Default	X X (X) X X	

STANDARD OBJECT TYPES DESCRIPTION, CONTINUED

BINARY INPUT	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writeable (X) = Writeable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier		
	Object_Name		
	Object_Type		
	Description		
	Present_Value	X	
	Status_Flags		
	Out_Of_Service	X	
	Event_State		
	Inactive_Text		
	Active_Text		
	Priority_Array		
	Relinquish_Default	X	
	Notification_Class		
	Reliability	(X)	
	Acked_Transitions		
	Event_Enable	X	
	Alarm_Value	X	
	Notify_Type		
	Time_Delay		
	Event_Time_Stamps		

STANDARD OBJECT TYPES DESCRIPTION, CONTINUED

[illegible]

STANDARD OBJECT TYPES DESCRIPTION, CONTINUED

[illegible]

STANDARD OBJECT TYPES DESCRIPTION, CONTINUED

MULTISTATE VALUE	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writableable (X) = Writableable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Present_Value Number_Of_States Status_Flags Out_Of_Service Event_State Priority_Array Relinquish_Default Notification_Class Reliability Acked_Transitions Event_Enable Alarm_Values Fault_Values Notify_Type Time_Delay Event_Time_Stamps State_Text	X X X (X) X X X	1 .. Number_Of_States X 1 .. Number_Of_States Max. 5 Max. 5
MULTISTATE VALUE	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writableable (X) = Writableable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Present_Value Number_Of_States Status_Flags Out_Of_Service Event_State State_Text	X X	1 .. Number_Of_States

STANDARD OBJECT TYPES DESCRIPTION, CONTINUED

NOTIFICATION CLASS	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writeable (X) = Writeable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Notification_Class Priority Ack_Required Recipient_List	X X X	Max. 20
SCHEDULE	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writeable (X) = Writeable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Present_Value Schedule_Default Effective_Period Weekly_Schedule List_Of_Object_Property_References Priority_For_Writing Status_Flags Reliability Out_Of_Service	(X) X X X X X	Multistate, Analog Max. 6 per day 1 ... 16
TREND LOG	PROPERTIES SUPPORTED	WRITABLE PROPERTIES X = Writeable (X) = Writeable if Out_Of_Service=True	PROPERTY RANGE RESTRICTIONS
	Object_Identifier Object_Name Object_Type Description Log_Enable Stop_When_Full Buffer_Size Log_Buffer Record_Count Total_Record_Count Event_State		

SEGMENTATION CAPABILITY

☒ Able to transmit segmented messages	Window size	4 for IP and 1 for MS/TP
☒ Able to receive segmented messages	Window size	4 for IP and 1 for MS/TP

2.9 DATA LINK LAYER OPTIONS

Only one Data Link Layer supportet, see 2.2 Product model number.

☒ BACnet IP, (Annex J)	
☒ BACnet IP, (Annex J), Foreign Device	
☐ ISO 8802-3, Ethernet (Clause 7)	
☐ ANSI/ATA 878.1, 2.5 Mb. ARCNET (Clause 8)	
☐ ANSI/ATA 878.1, RS-485 ARCNET (Clause 8), baud rate(s)	
☒ MS/TP master (Clause 9), baud rate(s)	9600, 19200, 38400, 76800
☒ MS/TP slave (Clause 9), baud rate(s)	9600, 19200, 38400, 76800
☐ Point-To-Point, EIA 232 (Clause 10), baud rate(s)	
☐ Point-To-Point, modem, (Clause 10), baud rate(s)	
☐ LonTalk, (Clause 11), medium	
☐ Other	:

2.10 DEVICE ADDRESS BINDING

Is static device binding supported? ☒ Yes ☐ No

2.11 NETWORKING OPTIONS

- ☐ Router, Clause 6 (remote management functionality/BACnet PTP)
- ☐ Annex H, BACnet Tunneling Router over IP
- ☒ BACnet/IP Broadcast Management Device (BBMD) ¹⁾

Number of BDT entries: 10

Does the BBMD support registrations by foreign devices? ☒ Yes ☐ No

¹⁾ if product supports IP

CHARACTER SETS SUPPORTED

Indicating support for multiple character sets does not imply that they can all be supported simultaneously.

- | | | |
|---|---|---------------------------------------|
| ☒ ANSI X3.4 | ☐ IBM / Microsoft DBCS | ☐ ISO 8859-11) |
| ☒ ISO 10646 (UCS-2) | ☐ ISO 10646 (UCS-4) | ☐ JIS C 6226 |

BACNET MS/TP COMMUNICATION MODULE

BACNET OBJECTS OF eQ FLÄKT V2.XX

INTRODUCTION

The following tables list all BACnet objects provided by the eQ Fläkt application AHU V2.xx to integrate Climatix in a building automation and control system.

ANALOG INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AuxTmp	Auxiliary temperature	115	°C	2.40 and prev.
BalPrs	Pressure balancing	28023	Pa	2.40 and prev.
CoilWtrTmp	Combi coil 1 wtr temperature	23945	°C	2.40 and prev.
ExFilter	Extract air filter sensor	10582	Pa	2.40 and prev.
ExhaustTmp	Exhaust air temperature	40895	°C	2.40 and prev.
ExhFan_DCLCurrent	Supply fan DCL Current	32361	A	2.52
ExhFan_DCLVoltage	Supply fan DCL Voltage	9232	V	2.52
ExhFan_FanSpeed	Exhaust fan speed	41627	Rpm	2.52
ExhFan_MaxSpeed	Exhaust fan max speed	58193	Rpm	2.52
ExhFan_ModTemp	Exhaust fan mod temperature	12204	°C	2.52
ExhFan_MotTemp	Exhaust fan mot temperature	11254	°C	2.52
ExhFan_OpTime	Exhaust fan - Operating time	6069		2.52
ExhFan_OpTimeHH	Exhaust fan - Operating time, hours	8243	h	2.52
ExhFan_OpTimeMM	Exhaust fan - Operating time, minutes	36707	min	2.52
ExhFan_PCBTemp	Exhaust fan PCB temperature	2311	°C	2.52
ExhFan_Power	Exhaust fan Power	42634	W	2.52
ExhFanExtSpv	Exhaust fan external setpoint	48207	Pa or l/s depending on fan control type.	2.40 and prev.
ExPreFilter	Extract air pre-filter sensor	19767	Pa	2.40 and prev.
ExtraFrstTmp	Extra heating frost temperature	4854	°C	2.40 and prev.
ExtraSupplyTmp	Supply air temperature 2	20915	°C	2.40 and prev.
ExtSetpointSpv	External setpoint	12205	°C	2.40 and prev.
HrecFrstPrs	Heat recovery frost pressure	39125	Pa	2.40 and prev.
HrecInTakePrs	Heat exchanger pressure drop	50488	Pa	2.40 and prev.
HrecSupplyTmp	Heat recovery supply air temp	44798	°C	2.40 and prev.
HrecWtrTmp	Heat recovery water temperature	12446	°C	2.40 and prev.
HtgFrstTmp	Heating frost temperature	50341	°C	2.40 and prev.
OutHum	Outdoor air relative humidity	45222	%r.H.	2.40 and prev.
OutTmp	Outdoor air temperature	53218	°C	2.40 and prev.
OutTmpWall	Outdoor wall temperature sensor	49723	°C	2.40 and prev.
ReturnAirTmp	Extract air temperature	28256	°C	2.40 and prev.
ReturnFlow	Exhaust air flow	38593	l/s	2.40 and prev.
ReturnPrs	Exhaust air pressure	39576	Pa	2.40 and prev.
RoomHum	Room relative humidity	37799	%r.H.	2.40 and prev.
RoomTmp	Room temperature	60643	°C	2.40 and prev.
RoomTmp2	Room temperature 2	51635	°C	2.40 and prev.
SplyFan_DCLCurrent	Supply fan DCL Current	56927	A	2.52
SplyFan_DCLVoltage	Supply fan DCL Voltage	33830	V	2.52
SplyFan_FanSpeed	Supply fan speed	48513	Rpm	2.52
SplyFan_MaxSpeed	Supply fan max speed	64587	Rpm	2.52
SplyFan_ModTemp	Supply fan mod temperature	28696	°C	2.52
SplyFan_MotTemp	Supply fan mot temperature	29762	°C	2.52
SplyFan_OpTime	Supply fan - Operating time	8364		2.52
SplyFan_OpTimeHH	Supply fan - Operating time, hours	16169	h	2.52
SplyFan_OpTimeMM	Supply fan - Operating time, minutes	36985	min	2.52

ANALOG INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
SplyFan_PCBTemp	Supply fan PCB temperature	22195	°C	2.52
SplyFan_Power	Supply fan Power	39978	W	2.52
SplyFanExtSpv	Supply fan external setpoint	30575	Pa or l/s depending on fan control type.	2.40 and prev.
SplyFilter	Outdoor air filter sensor	59395	Pa	2.40 and prev.
SplyPreFilter	Outdoor air pre-filter sensor	44474	Pa	2.40 and prev.
SupplyFlow	Supply air flow	9497	l/s	2.40 and prev.
SupplyHum	Supply air relative humidity	53018	%r.H.	2.40 and prev.
SupplyPrs	Supply air pressure	20400	Pa	2.40 and prev.
SupplyTmp	Supply air temperature	45150	0=Ok 1=Alarm	2.40 and prev.

ANALOG OUTPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AuxOutput	Auxiliary analog output fan	22813	0-100%	2.40 and prev.
BalanceCntrlPos	Pressure balancing extract damper controller output signal	57034	%	2.40 and prev.
BalCtrlrSplyPos	Mixing outdoor damper controller output signal	38455	%	2.40 and prev.
CoolingPmpVarPos	Cooling 1 pump output signal	45643	0-100%	2.40 and prev.
CoolingPos	Cooling output signal	30925	0-100%	2.40 and prev.
ElectricalHtgPos	Electrical heating output signal	37442	0-100%	2.40 and prev.
ExhFanVarPos	Exhaust fan output signal	40119	0-100%	2.40 and prev.
ExtraClgPmpVarPos	Extra cooling pump output signal	59738	0-100%	2.40 and prev.
ExtraClgPos	Extra cooling output signal	60283	0-100%	2.40 and prev.
ExtraElHtgPos	Extra electrical heating output signal	45777	0-100%	2.40 and prev.
ExtraHtgPmpVarPos	Extra heating pump output signal	166	0-100%	2.40 and prev.
ExtraHtgPos	Extra heating output signal	46994	0-100%	2.40 and prev.
HeatingPmpVarPos	Heating pump output signal	34442	0-100%	2.40 and prev.
HeatingPos	Heating output signal	26209	0-100%	2.40 and prev.
HrecDampPos	Heat recovery damper output signal	49662	0-100%	2.40 and prev.
HrecPmpVarPos	Heat recovery pump output signal	29755	0-100%	2.40 and prev.
HrecPos	Heat recovery output signal	5922	0-100%	2.40 and prev.
HumidityCtrlPos	Humidifier output signal	39618	0-100%	2.40 and prev.
ReCoolingPos	ReCooler cooling output signal	23338	%	2.40 and prev.
ReHeatingPos	ReCooler heating output signal	17798	%	2.40 and prev.
SplyFanVarPos	Supply fan output signal	59037	0-100%	2.40 and prev.

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ActCascSpvClg	Actual supply cooling setpoint (when use of cascade control)	2735	°C	2.40 and prev.
ActCascSpvDeh	Actual supply dehumidification setpoint for humidification	50248	%r.H.	2.40 and prev.
ActCascSpvHtg	Actual supply heating setpoint (when use of cascade control)	28804	°C	2.40 and prev.
ActCascSpvHum	Actual supply humidification setpoint	58111	%r.H.	2.40 and prev.
ActCtrlVal	Actual controlled temperature	52988	°C	2.40 and prev.
ActCtrlValHum	Actual controlled humidification	38385	%r.H.	2.40 and prev.
ActMainSpvClg	Actual cooling setpoint, Main (depending on actual control mode)	30105	°C	2.40 and prev.
ActMainSpvDeh	Actual dehumidification setpoint for humidification	47998	%r.H.	2.40 and prev.
ActMainSpvHtg	Actual heating setpoint, Main (depending on actual control mode)	4018	°C	2.40 and prev.
ActMainSpvHum	Actual humidification setpoint	40393	%r.H.	2.40 and prev.
ActvClgRecDev	Activate cooling recovery - Temperature difference	3315	K	2.40 and prev.
AirQCmpCtrlLoopKp	Air quality compensation - Proportional factor	21855		2.62
AirQCmpCtrlLoopTD	Air quality compensation - Differential factor	21857	s	2.62
AirQCmpCtrlLoopTI	Air quality compensation - Integral factor	21856	s	2.62
AirQCmpPrVal	Actual air quality compensation	10236	0-100%	2.40 and prev.
AirQSpv	Air quality setpoint	22649	ppm	2.40 and prev.
AirQuality	Air quality	3737	ppm	2.40 and prev.
AlmAckBtnCOM	Alarm Ack button - Value comm.	1899	0=Off 1=On	2.62
BalCtrlSplyLowLimit	Balance control - Min pressure outdoor damper	2429	Pa	2.40 and prev.
BalDmpMaxTm	Balance control - Max time	31736	s	2.40 and prev.
BalDmpTm	Balance control - Force damper at start time	5939	s	2.40 and prev.
BalMaxDev	Balance control - Max pressure deviation	49991	Pa	2.40 and prev.
BalPrsLowLmt	Balance control - Min pressure extract damper	28570	%	2.40 and prev.
BalPrsSp	Balance control - Pressure setpoint	22141	Pa	2.40 and prev.
BlkClgRecDev	Block cooling recovery - Temperature difference	228	K	2.40 and prev.
BlkHtgRecDev	Block heat recovery - Temperature difference	33121	K	2.40 and prev.
BoostClgSpv	Boost cooling setpoint	44092	°C	2.40 and prev.
BoostHtgSpv	Boost heating setpoint	27113	°C	2.40 and prev.
BoostPreStrtTm	Boost pre-start time	3510	min	2.40 and prev.
BoostRmSpv	Boost room temperature setpoint	13266	°C	2.40 and prev.
CalibrationActvTm	Calibration - Time delay	17241	s	2.40 and prev.
CalibrationExhFanStart	Calibration - Q-min exhaust fan start	34380	l/s	2.40 and prev.
CalibrationExhFanStop	Calibration - Q-min exhaust fan stop	46866	l/s	2.40 and prev.
CalibrationMaxDev	Calibration - Maximum deviation	32048	l/s	2.40 and prev.
CalibrationQ	Calibration Q	38555	l/s	2.40 and prev.
CalibrationQExh	Calibration Q Exhaust	38027	l/s	2.40 and prev.
CalibrationQRed	Calibration - Reduce Q	59099	%	2.40 and prev.
CalibrationQRt	Calibration Q Extract	54865	l/s	2.40 and prev.
CalibrationStoPmax	Calibration - P-max pressure heat exchanger	48462	Pa	2.40 and prev.
CalibrationStoPmin	Calibration - P-min pressure heat exchanger	17936	Pa	2.40 and prev.
CalibrationStoQmax	Calibration - Q-max flow heat exchanger	52218	l/s	2.40 and prev.
CalibrationStoQmin	Calibration - Q-min flow heat exchanger	12452	l/s	2.40 and prev.
CascFlowLmtMaxDevLmt	Draught heating max deviation	57930	°C	2.40 and prev.
CascFlowLmtMinDevLmt	Draught cooling max deviation	27342	°C	2.40 and prev.
CG_EM24_1ActPower	Energy actual power	40280	W	2.40 and prev.
CG_EM24_1AvePower	Energy save power	36000	W	2.40 and prev.
CG_EM24_1OpHours	Energy operating hours	49048	h	2.40 and prev.
CG_EM24_1ParEnergy	Energy partial	19610	kWh	2.40 and prev.
CG_EM24_1TotEnergy	Energy total	61249	kWh	2.40 and prev.
ClgPmpActiveHour	Cooling pump - Operating hours	875	h	2.56
ClgReClgCtrlLoopKp	ReCooler cooling controller - Proportional factor	21849		2.62
ClgReClgCtrlLoopTD	ReCooler cooling controller - Differential factor	21851	s	2.62

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ClgReClgCtrLoopTI	ReCooler cooling controller - Integral factor	21850	s	2.62
CoolingCtrLoopKp	Cooling - Proportional factor	21807		2.62
CoolingCtrLoopTD	Cooling - Differential factor	21809	s	2.62
CoolingCtrLoopTI	Cooling - Integral factor	21808	s	2.62
CoolingOffTmp	Cooling 1 disable by outdoor temperature	16471	°C	2.40 and prev.
CounterFlowExchangerX1	Counter flow heat exchanger - X1	18421	°C	2.40 and prev.
CounterFlowExchangerX2	Counter flow heat exchanger - X2	30614	°C	2.40 and prev.
CounterFlowExchangerY1	Counter flow heat exchanger - Y1	29892	%	2.40 and prev.
CounterFlowExchangerY2	Counter flow heat exchanger - Y2	17575	%	2.40 and prev.
CRecDamperCtrLoopKp	Mixing damper cooling recovery controller - Proportional factor	21825		2.62
CRecDamperCtrLoopTD	Mixing damper cooling recovery controller - Differential factor	21827	s	2.62
CRecDamperCtrLoopTI	Mixing damper cooling recovery controller - Integral factor	21826	s	2.62
CrecDampRec	Mixing damper cooling recovery output signal	33908	%	2.40 and prev.
DeFrstMxSpd	Heat exchanger defrost max output signal	28660	°C	2.40 and prev.
DehumidificationCtrLoopKp	Dehumidification - Proportional factor	21939		2.62
DehumidificationCtrLoopTD	Dehumidification - Differential factor	21941	s	2.62
DehumidificationCtrLoopTI	Dehumidification - Integral factor	21940	s	2.62
DehumidificationPrVal	Actual dehumidification value	18150	0-100%	2.40 and prev.
Dewpoint	Supply dew point	21292	°C	2.40 and prev.
DewpointDz	Dew point - Neutral zone	41175	°C	2.40 and prev.
ExClgPmpActiveHour	Extra cooling pump - Operating hours	876	h	2.56
ExFilterPreAlm	Extract air filter Pre-alarm	45194	Pa	2.40 and prev.
ExhFanActiveHour	Exhaust fan - Operating hours	871	h	2.56
ExhFanActSpv	Actual exhaust fan setpoint	33255	l/s	2.40 and prev.
ExhFanActVal	Actual exhaust fan value	59694		2.40 and prev.
ExhFanCurrent	Danfoss / OJ-DV Exhaust fan current	52288	A	2.52
ExhFanDevAlmMaxDev	Exhaust fan - Maximum deviation (flow control)	56254	%, Pa or l/s depending on configuration	2.40 and prev.
ExhFanDevAlmMaxDevPrs	Exhaust fan - Maximum deviation (pressure control)	54886	Pa	2.40 and prev.
ExhFanDevAlmMinLmt	Exhaust fan - Minimum limit (flow control)	58855		2.40 and prev.
ExhFanDevAlmMinLmtPrs	Exhaust fan - Minimum limit (pressure control)	48357	Pa	2.40 and prev.
ExhFanEnergy	Danfoss exhaust fan Energy	7102	kWh	2.52
ExhFanMotorVolt	Danfoss / OJ-DV Exhaust fan motor voltage	14530	V	2.52
ExhFanOpDays	Danfoss / OJ-DV Exhaust fan - Operating days	36017	days	2.52
ExhFanOpHrs	Danfoss / OJ-DV Exhaust fan - Operating hours	27013	h	2.52
ExhFanOpMinutes	Danfoss / OJ-DV Exhaust fan - Operating minutes	49021	min	2.52
ExhFanOutFreq	Danfoss / OJ-DV Exhaust fan frequency	65306	Hz	2.52
ExhFanPower	Danfoss / OJ-DV Exhaust fan power	42046	kW	2.52
ExhFanPrcOut	Danfoss / OJ-DV Exhaust fan output signal	55707	%	2.52
ExhFanSpeed	Danfoss / OJ-DV Exhaust fan speed	55889	Rpm	2.52
ExhFanSpvMaxForce	Exhaust fan max force setpoint	2525	%, Pa or l/s depending on configuration	2.40 and prev.
ExhFanSpvSt1Spv	Exhaust fan step 1 setpoint	45030	%, Pa or l/s depending on configuration	2.40 and prev.
ExhFanSpvSt2Spv	Exhaust fan step 2 setpoint	13370	%, Pa or l/s depending on configuration	2.40 and prev.
ExhFanSpvSt3Spv	Exhaust fan step 3 setpoint	17038	%, Pa or l/s depending on configuration	2.40 and prev.
ExhOJEngyCOM	OJ-DV Exhaust fan energy	1908	kWh	2.52

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExHtgPmpActiveHour	Extra heating pump - Operating hours	874	h	2.56
ExPreFilterPreAlm	Extract air pre-filter Pre-alarm	23230	Pa	2.40 and prev.
ExtControlDlyOffTm	Ext ctrl off delay	4853	h	2.40 and prev.
ExtCoolingCtrLoopKp	Extra cooling - Proportional factor	21813		2.62
ExtCoolingCtrLoopTD	Extra cooling - Differential factor	21815	s	2.62
ExtCoolingCtrLoopTI	Extra cooling - Integral factor	21814	s	2.62
ExtHeatingCtrLoopKp	Extra heating - Proportional factor	21810		2.62
ExtHeatingCtrLoopTD	Extra heating - Differential factor	21812	s	2.62
ExtHeatingCtrLoopTI	Extra heating - Integral factor	21811	s	2.62
ExtraClgOffTmp	Extra cooling off temperature	54677	°C	2.40 and prev.
ExtraHtgFrstSpv	Extra heating frost protection setpoint	4625	°C	2.40 and prev.
ExtraHtgFrstSpvStBy	Extra heating frost protection setpoint stand-by	60579	°C	2.40 and prev.
ExtraHtgPreHtgX1	Extra heating, pre-heating - X1	27620	0 - 100%	2.40 and prev.
ExtraHtgPreHtgX2	Extra heating, pre-heating - X2	23431	°C	2.40 and prev.
ExtraHtgPreHtgY1	Extra heating, pre-heating - Y1	22741	°C	2.40 and prev.
ExtraHtgPreHtgY2	Extra heating, pre-heating - Y2	26806	0 - 100%	2.40 and prev.
ExtraSpv	Extra Sequence setpoint	58349	°C	2.40 and prev.
ExtraSpv2	Extra setpoint 2	13916	°C	2.42
ExtrPrsBalCtrLoopKp	Extract air pressure balance controller - Proportional factor	21837		2.62
ExtrPrsBalCtrLoopTD	Extract air pressure balance controller - Differential factor	21839	s	2.62
ExtrPrsBalCtrLoopTI	Extract air pressure balance controller - Integral factor	21838	s	2.62
ExtSetpExhFanCOM	Exhaust fan external setpoint - Value comm.	1886	Pa or l/s depending on fan control type.	2.62
ExtSetpointSpvCOM	External setpoint - Value comm.	1884	°C	2.62
ExtSetpSplyFanCOM	Supply fan external setpoint - Value comm.	1885	Pa or l/s depending on fan control type.	2.62
FanClgCtrLoopKp	Fan cooling - Proportional factor	21864		2.62
FanClgCtrLoopTD	Fan cooling - Differential factor	21866	s	2.62
FanClgCtrLoopTI	Fan cooling - Integral factor	21865	s	2.62
FanClgPrVal	Actual fan cooling value	58670	0-100%	2.40 and prev.
FanCmpClgDz	Fan compensation - Cooling neutral zone	54041	°C	2.40 and prev.
FanCmpHtgDz	Fan compensation - Heating neutral zone	41346	°C	2.40 and prev.
FanCmpHumCtrLoopKp	Fan compensation (humidification) - Proportional factor	21933		2.62
FanCmpHumCtrLoopTD	Fan compensation (humidification) - Differential factor	21935	s	2.62
FanCmpHumCtrLoopTI	Fan compensation (humidification) - Integral factor	21934	s	2.62
FanCmpHumPrVal	Actual fan compensation humidification	15399	0-100%	2.40 and prev.
FanCmpTmpCtrLoopKp	Fan compensation (temp) - Proportional factor	21858		2.62
FanCmpTmpCtrLoopTD	Fan compensation (temp) - Differential factor	21860	s	2.62
FanCmpTmpCtrLoopTI	Fan compensation (temp) - Integral factor	21859	s	2.62
FanCmpTmpPrVal	Actual fan compensation temperature	9430	0-100%	2.40 and prev.
FanCmpTmpSpv	Fan compensation - Temperature setpoint	59241	°C	2.40 and prev.
FanHtgCtrLoopKp	Fan heating - Proportional factor	21861		2.62
FanHtgCtrLoopTD	Fan heating - Differential factor	21863	s	2.62
FanHtgCtrLoopTI	Fan heating - Integral factor	21862	s	2.62
FanHtgPrVal	Actual fan heating value	49915	0-100%	2.40 and prev.
HeatingCtrLoopKp	Heating - Proportional factor	21801		2.62
HeatingCtrLoopTD	Heating - Differential factor	21803	s	2.62
HeatingCtrLoopTI	Heating - Integral factor	21802	s	2.62
HeatingFrstSpv	Heating frost protection setpoint	35635	°C	2.40 and prev.
HeatingFrstSpvStBy	Heating frost protection setpoint stand-by	12781	°C	2.40 and prev.
HeatingPreHtgX1	Heating Pre-heating - X1	23412	0 - 100%	2.40 and prev.
HeatingPreHtgX2	Heating Pre-heating - X2	27415	°C	2.40 and prev.
HeatingPreHtgY1	Heating Pre-heating - Y1	26693	°C	2.40 and prev.
HeatingPreHtgY2	Heating Pre-heating - Y2	22566	0 - 100%	2.40 and prev.
HRecCtrLoopKp	Heat recovery - Proportional factor	21819		2.62

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
HrecCtrlLoopTD	Heat recovery - Differential factor	21821	s	2.62
HrecCtrlLoopTI	Heat recovery - Integral factor	21820	s	2.62
HrecDamperCtrlLoopKp	Mixing damper controller - Proportional factor	21822		2.62
HrecDamperCtrlLoopTD	Mixing damper controller - Differential factor	21824	s	2.62
HrecDamperCtrlLoopTI	Mixing damper controller - Integral factor	21823	s	2.62
HrecDampminFrshAir	Mixing damper - Min fresh air	1577	0-100%	2.40 and prev.
HrecDampRec	Heat recovery damper recovery value	21211	0-100%	2.40 and prev.
HrecDmpPosCtrlPrVal	Mixing damper output signal	46606	0-100%	2.40 and prev.
HrecDmpPosHrecX1	Mixing - mixing damper - heat recovery X1	28958	%	2.40 and prev.
HrecDmpPosHrecX2	Mixing - mixing damper - heat recovery X2	16765	%	2.40 and prev.
HrecDmpPosHrecY1	Mixing - mixing damper - heat recovery Y1	16943	%	2.40 and prev.
HrecDmpPosHrecY2	Mixing - mixing damper - heat recovery Y2	29260	%	2.40 and prev.
HrecDmpPosQminOut	Mixing damper - Q min out	14531	l/s	2.40 and prev.
HrecDmpPosSplyX1	Mixing - outdoor damper X1	39790	%	2.40 and prev.
HrecDmpPosSplyX2	Mixing - outdoor damper X2	43789	%	2.40 and prev.
HrecDmpPosSplyY1	Mixing - outdoor damper Y1	43103	%	2.40 and prev.
HrecDmpPosSplyY2	Mixing - outdoor damper Y2	38972	%	2.40 and prev.
HrecDmpPosStartupTm	Mixing damper - Start up time	48520	s	2.40 and prev.
HrecEffEff	Heat recovery efficiency	17247	%	2.40 and prev.
HrecFrstCtrlLoopKp	Heat recovery frost protection - Proportional factor	21831		2.62
HrecFrstCtrlLoopTD	Heat recovery frost protection - Differential factor	21833	s	2.62
HrecFrstCtrlLoopTI	Heat recovery frost protection - Integral factor	21832	s	2.62
HrecFrstMinTm	Heat exchanger - Frost min time	15072	min	2.40 and prev.
HrecFrstSpv	Heat exchanger frost protection setpoint	51620	°C	2.40 and prev.
HrecPmpActiveHour	Heat exchanger pump - Operating hours	872	h	2.56
HrecPrsFrstCtrlLoopKp	Heat recovery frost protection pressure - Proportional factor	21828		2.62
HrecPrsFrstCtrlLoopTD	Heat recovery frost protection pressure - Differential factor	21830	s	2.62
HrecPrsFrstCtrlLoopTI	Heat recovery frost protection pressure - Integral factor	21829	s	2.62
HrecPrsFrstSpv	Heat recovery frost setpoint st1	2152	°C	2.40 and prev.
HrecPrsFrstSpvStBy	Heat recovery frost setpoint st2	55606	°C	2.40 and prev.
HtgPmpActiveHour	Heating pump - Operating hours	873	h	2.56
HtgReClgCtrlLoopKp	ReCooler heating controller - Proportional factor	21852		2.62
HtgReClgCtrlLoopTD	ReCooler heating controller - Differential factor	21854	s	2.62
HtgReClgCtrlLoopTI	ReCooler heating controller - Integral factor	21853	s	2.62
HumidityCtrlLoopKp	Humidification - Proportional factor	21936		2.62
HumidityCtrlLoopTD	Humidification - Differential factor	21938	s	2.62
HumidityCtrlLoopTI	Humidification - Integral factor	21937	s	2.62
HumMaxCtrlMaxSpv	Supply humidification max setpoint	57438	%r.H. or g/kg depending on configuration	2.40 and prev.
HumMaxCtrlLoopKp	(Pure room/extract control)	21930		2.62
HumMaxCtrlLoopTD	Humidification max - Proportional factor	21932	s	2.62
HumMaxCtrlLoopTI	Humidification max - Differential factor	21931	s	2.62
HumidityCtrlPmpVarPos	Humidification max - Integral factor	51005	0-100%	2.40 and prev.
HumSpvAbsDz	Humidifier pump output signal	61029	%r.H. or g/kg depending on configuration	2.40 and prev.
HumSpvAbsSpv	Absolute humidity - Neutral zone	20105	%r.H. or g/kg depending on configuration	2.40 and prev.
HumSpvAbsSpvDehum	Absolute humidity - Setpoint	62747	%r.H. or g/kg depending on configuration	2.40 and prev.

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
HumSpvAbsSpvHum	Absolute humidity - Humidification setpoint	22791	%r.H. or g/kg depending on configuration	2.40 and prev.
HumSpvRelDz	Relative humidity - Neutral zone	37532	%r.H. or g/kg depending on configuration	2.40 and prev.
HumSpvRelSpv	Relative humidity - Setpoint	2194	%r.H. or g/kg depending on configuration	2.40 and prev.
HumSpvRelSpvDehum	Relative humidity - Dehumidification setpoint	11342	%r.H. or g/kg depending on configuration	2.40 and prev.
HumSpvRelSpvHum	Relative humidity - Humidification setpoint	10627	%r.H. or g/kg depending on configuration	2.40 and prev.
IBC_ACVolt	Heat recovery - VariMax supply AC voltage	31024	V	2.62
IBC_AxISpd	Heat recovery - Actual axle speed	14728	rpm	2.62
IBC_MaxAxISpd	Heat recovery - Maximum axle speed	56282	rpm	2.62
IBC_PrgVerIOC	Heat recovery - Program version IOC	5584		2.62
IBC_PrgVerMPC	Heat recovery - Program version MPC	55901		2.62
IBC_RefSpd	Heat recovery - Reference speed	41063	rpm	2.62
IBC_RotorSpd	Heat recovery - Actual rotor speed	27990	rpm	2.62
IBC_UnitTemp	Heat recovery - Unit temperature	60933	°C	2.62
IBC_VariMaxMod	Heat recovery - VariMax model	45225	Reads 25 for VariMax25 etc.	2.62
MinV1CircReCooler	ReCooler - Minimum value 1 circuit	24572	%	2.42
MinV2CircReCooler	ReCooler - Minimum value 2 circuits	45358	%	2.42
MinV3CircReCooler	ReCooler - Minimum value 3 circuits	7039	%	2.42
NightCoolMinOutTmp	Night free cooling - Min outdoor temperature	4465	°C	2.40 and prev.
NightCoolOnDiff	Night free cooling - Delta	1475	°C	2.40 and prev.
NightCoolRmHys	Night free cooling - Hysteresis	17755	°C	2.40 and prev.
NightCoolRmSpv	Night free cooling room setpoint	7412	°C	2.40 and prev.
OutEnth	Outdoor air enthalpy	57226	kJ/kg	2.40 and prev.
OutHumAbs	Outdoor air humidity absolute	16390	g/kg	2.40 and prev.
OutHumCOM	Outdoor air relative humidity - Value comm.	1887	0 - 100 %r.H.	2.62
OutTmpCOM	Outdoor air temperature - Value comm.	1882	°C	2.62
OutTmpWallCOM	Outdoor temperature wall sensor - Value comm.	1883	°C	2.62
RmEnth	Room enthalpy	61369	kJ/kg	2.40 and prev.
RmHumAbs	Room humidity absolute	17315	g/kg	2.40 and prev.
RmHumDevAlmMaxDev	Max deviation room hum	39703	%r.H.	2.40 and prev.
RoomHumCOM	Room relative humidity - Value comm.	1888	0 - 100 %r.H.	2.62
RoomTmp2COM	Room temperature 2 - Value comm.	1881	°C	2.62
RtRmTmpDevAlmMaxDev	Extract/Room temperature - Maximum deviation	61586	°C	2.40 and prev.
SFP	The current SFP value of the unit	52945	kW/(m3/s)	2.58
SlaveOffset	Slave offset	24823	l/s	2.40 and prev.
SplyEnth	Supply air enthalpy	29558	kJ/kg	2.40 and prev.
SplyFanActiveHour	Supply fan - Operating hours	870	H	2.56
SplyFanActSpv	Actual supply fan setpoint	46589	l/s	2.40 and prev.
SplyFanActVal	Actual sply fan value	56628		2.40 and prev.
SplyFanCmdSt	Supply fan cmd	21928	0=Auto 1=Off 2=Stage1 3=Stage2 4=Stage3	2.40 and prev.
SplyFanCurrent	Danfoss / OJ-DV Supply fan current	15012	A	2.52
SplyFanDevAlmMaxDev	Supply fan - Maximum deviation (flow control)	57203	%, Pa or l/s depending on configuration	2.40 and prev.
SplyFanDevAlmMaxDevPrs	Supply fan - Maximum deviation (pressure control)	27310	Pa	2.40 and prev.
SplyFanDevAlmMinLmt	Supply fan - Minimum limit (flow control)	57642		2.40 and prev.
SplyFanDevAlmMinLmtPrs	Supply fan - Minimum limit (pressure control)	45	Pa	2.40 and prev.

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
SplyFanEnergy	Danfoss Supply fan Energy	30980	kWh	2.52
SplyFanMotorVolt	Danfoss / OJ-DV Supply fan motor voltage	15375	V	2.52
SplyFanOpDays	Danfoss / OJ-DV Supply fan - Operating days	60939	Days	2.52
SplyFanOpHrs	Danfoss / OJ-DV Supply fan - Operating hours	40024	H	2.52
SplyFanOpMinutes	Danfoss / OJ-DV Supply fan - Operating minutes	48048	Min	2.52
SplyFanOutFreq	Danfoss / OJ-DV Supply fan frequency	2558	Hz	2.52
SplyFanPower	Danfoss / OJ-DV Supply fan power	20963	kW	2.52
SplyFanPrcOut	Danfoss / OJ-DV Supply fan output signal	47905	%	2.52
SplyFanSpeed	Danfoss / OJ-DV Supply fan speed	12172	Rpm	2.52
SplyFanSpvMaxForce	Supply fan max force setpoint	25092	%, Pa or l/s depending on configuration	2.40 and prev.
SplyFanSpvSt1Spv	Supply fan step 1 setpoint	52572	%, Pa or l/s depending on configuration	2.40 and prev.
SplyFanSpvSt2Spv	Supply fan step 2 setpoint	22144	%, Pa or l/s depending on configuration	2.40 and prev.
SplyFanSpvSt3Spv	Supply fan step 3 setpoint	8244	%, Pa or l/s depending on configuration	2.40 and prev.
SplyFilterPreAlm	Outdoor air filter Pre-alarm	32127	Pa	2.40 and prev.
SplyHumAbs	Supply air humidity absolute	13958	g/kg	2.40 and prev.
SplyHumDevAlmMaxDev	Max deviation supply hum	22230	g/kg %rH. or g/kg depending on configuration	2.40 and prev.
SplyOJEngyCOM	OJ-DV Supply fan energy	1907	kWh	2.52
SplyPreFilterPreAlm	Outdoor air pre-filter Pre-alarm	53804	Pa	2.40 and prev.
SplyPrsBalCtrLoopKp	Supply air pressure balance controller - Proportional factor	21840		2.62
SplyPrsBalCtrLoopTD	Supply air pressure balance controller - Differential factor	21842	s	2.62
SplyPrsBalCtrLoopTI	Supply air pressure balance controller - Integral factor	21841	s	2.62
SplyTmpDevAlmMaxDev	Supply temperature - Maximum deviation	9756	°C	2.40 and prev.
StrtUpModeDelayReC	ReCooler - Start-up mode	14143	s	2.42
SuCmpFanPrVal	Actual summer compensation fan	8596	0-100%	2.40 and prev.
SuCmpTmpDta	Summer compensation temperature delta	34417	K	2.40 and prev.
SuCmpTmpEnd	Summer compensation end - Outdoor air temperature setpoint	3420	°C	2.42
SuCmpTmpPrVal	Actual summer comp temperature	41033	°C	2.40 and prev.
SuCmpTmpStart	Summer compensation start - Outdoor air temperature setpoint	41719	°C	2.42
SuWiSwTchCheckOutTmp-Dampd	Damped temperature	24338		2.40 and prev.
SwTchSplyCmp	Summer/winter supply compensation	7989	°C	2.40 and prev.
TmpMaxCtrLoopKp	Temp max - Proportional factor	21843		2.62
TmpMaxCtrLoopTD	Temp max - Differential factor	21845	s	2.62
TmpMaxCtrLoopTI	Temp max - Integral factor	21844	s	2.62
TmpMinCtrLoopKp	Temp min - Proportional factor	21846		2.62
TmpMinCtrLoopTD	Temp min - Differential factor	21848	s	2.62
TmpMinCtrLoopTI	Temp min - Integral factor	21847	s	2.62
TmpMinMaxCtlrMaxSpv	Supply temperature max setpoint (Pure room/extract control)	2907	°C	2.40 and prev.
TmpMinMaxCtlrMinSpv	Supply temperature min setpoint (Pure room/extract control)	13640	°C	2.40 and prev.
TmpSpvCoDz	Comfort temperature deadz	65251	°C	2.40 and prev.
TmpSpvCoSpv	Comfort temperature setpoint	55992	°C	2.40 and prev.
TmpSpvCoSpvClg	Comfort cooling setpoint	8970	°C	2.40 and prev.
TmpSpvCoSpvHtg	Comfort heating setpoint	22817	°C	2.40 and prev.
WiCmpTmpPrVal	Actual winter comp temperature	17839	°C	2.40 and prev.
WiCmpTmpStart	Winter compensation start - Outdoor air temperature setpoint	34422	°C	2.42

BINARY INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AuxAlm	Auxiliary alarm	22605	0=0k 1=Alarm	
AuxInp	Auxiliary input	21522	0=0 1=1	
ClgAlm	Cooling DX alarm	45154	0=0k 1=Alarm	
ClgPmpAlm	Cooling pump alarm	40242	0=0k 1=Alarm	
CoolingFBFbVal	Cooling DX feedback	43526	0=0k 1=Alarm	
CoolingPmpCmdFBFbVal	Cooling pump feedback	51912	0=0k 1=Alarm	
DamperExhFBFbVal	Exhaust air damper feedback	27338	0=0k 1=Alarm	
DamperSplyFBFbVal	Outdoor air damper feedback	6336	0=0k 1=Alarm	
ElHtgAlm	Electrical heating alarm	4964	0=0k 1=Alarm	
EmergencyStop	Emergency stop input	9864	0=Off 1=On	
EmergencyStopCOM	Emergency Stop input - Value comm.	1897	0=Off 1=On	
ExhFanAlm	Exhaust fan alarm	55865	0=0k 1=Alarm	
ExhFanFBFbVal	Exhaust fan feedback	32844	0=0k 1=Alarm	
ExhFilterAlm	Extract filter alarm	45320	0=0k 1=Alarm	
ExhPreFilterAlm	Extract pre-filter DI alarm	8711	0=0k 1=Alarm	
ExtAlm1COM	External alarm 1 - Value comm.	1903	0=0k 1=Alarm	
ExtAlm2COM	External alarm 2 - Value comm.	1904	0=0k 1=Alarm	
ExtCtrl1	External control input 1	11643	0=Off 1=On	
ExtCtrl1COM	External control input 1 - Value comm.	1895	0=Off 1=On	
ExtCtrl2	External control input 2	7448	0=Off 1=On	
ExtCtrl2COM	External control input 2 - Value comm.	1896	0=Off 1=On	
ExtraClgAlm	Extra cooling DX alarm	48824	0=0k 1=Alarm	
ExtraClgFBFbVal	Extra cooling DX feedback	47898	0=0k 1=Alarm	
ExtraClgPmpAlm	Extra cooling pump alarm	31967	0=0k 1=Alarm	
ExtraClgPmpCmdFBFbVal	Extra cooling pump feedback	54719	0=0k 1=Alarm	
ExtraElHtgAlm	Extra electrical heating alarm	23132	0=0k 1=Alarm	
ExtraFrstDtctr	Extra heating frost monitor	34361	0=0k 1=Alarm	
ExtraHtgPmpAlm	Extra heating pump alarm	23306	0=0k 1=Alarm	
ExtraHtgPmpCmdFBFbVal	Extra heating pump feedback	13329	0=0k 1=Alarm	
FanAlm	Fan alarm	8558	0=0k 1=Alarm	
FilterAlm	Filter alarm	13699	0=0k 1=Alarm	
FireAlm	Fire alarm alarm	28514	0=0k 1=Alarm	

BINARY INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
FireAlm2	Fire alarm 2 alarm	59736	0=Ok 1=Alarm	2.40 and prev.
FireAlm2COM	Fire alarm input 2 - Value comm.	1901	0=Ok 1=Alarm	2.62
FireAlm3	Fire alarm 3 alarm	63865	0=Ok 1=Alarm	2.40 and prev.
FireAlm3COM	Fire alarm input 3 - Value comm.	1902	0=Ok 1=Alarm	2.62
FireAlmCOM	Fire alarm - Value comm.	1900	0=Ok 1=Alarm	2.62
FireDamperFdbkClsd	Fire damper closed	53169	0=Ok 1=Alarm	2.40 and prev.
FireDamperFdbkOpn	Fire damper opened	3118	0=Ok 1=Alarm	2.40 and prev.
FireDamperNoMove	Fire damper no move	44469	0=Ok 1=Alarm	2.40 and prev.
HeatingPmpCmdFBFbVal	Heating pump feedback	15639	0=Ok 1=Alarm	2.40 and prev.
HRecAlm	Heat recovery alarm	62931	0=Ok 1=Alarm	2.40 and prev.
HRecFdbkAlm	Heat exchanger feedback alarm	61487	0=Ok 1=Alarm	2.40 and prev.
HrecFrstDtctr	Heat recovery frost monitor	31092	0=Ok 1=Alarm	2.40 and prev.
HRecPmpAlm	Heat recovery pump alarm	18003	0=Ok 1=Alarm	2.40 and prev.
HrecPmpCmdFBFbVal	Heat recovery pump feedback	34557	0=Ok 1=Alarm	2.40 and prev.
HtgFrstDtctr	Heating frost monitor	21294	0=Ok 1=Alarm	2.40 and prev.
HtgPmpAlm	Heating pump alarm	47847	0=Ok 1=Alarm	2.40 and prev.
HumidityCtrlCmdFBFbVal	Humidifier feedback	14608	0=Ok 1=Alarm	2.40 and prev.
HumidityCtrlPmpCmdFB-FbVal	Humidifier pump feedback	24144	0=Ok 1=Alarm	2.40 and prev.
HumPmpAlm	Humidifier pump alarm	3706	0=Ok 1=Alarm	2.40 and prev.
SplyFanAlm	Supply fan alarm	28757	0=Ok 1=Alarm	2.40 and prev.
SplyFanFBFbVal	Supply fan feedback alarm	64102	0=Ok 1=Alarm	2.40 and prev.
SplyFilterAlm	Outdoor filter alarm	34066	0=Ok 1=Alarm	2.40 and prev.
SplyPreFilterAlm	Outdoor pre-filter DI alarm	55258	0=Ok 1=Alarm	2.40 and prev.
SuWiSwTch	Summer/Winter changeover input	26679	0=Winter 1=Summer	2.40 and prev.
SuWiSwTchCOM	Summer/Winter changeover input - Value comm.	1898	0=Winter 1=Summer	2.62

BINARY OUTPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AlmOutHigh	Alarm output 1	5714	0=Normal 1=Alarm	2.40 and prev.
AlmOutLow	Alarm output 2	8035	0=Normal 1=Alarm	2.40 and prev.
AuxOpModeInd	Auxiliary operation mode output	5163	0=Off 1=On	2.40 and prev.
AuxTspOutput	Auxiliary time switch program output	22528	0=Off 1=On	2.40 and prev.
CoolingPmpCmdOnOff	Cooling pump command	10276	0=Off 1=On	2.40 and prev.
DamperExhOnOff	Exhaust air damper command	43251	0=Off 1=On	2.40 and prev.
DamperSplyOnOff	Outdoor air damper command	6170	0=Off 1=On	2.40 and prev.
ExtraClgPmpCmdOnOff	Extra cooling pump command	63601	0=Off 1=On	2.40 and prev.
ExtraHtgPmpCmdOnOff	Extra heating pump command	31944	0=Off 1=On	2.40 and prev.
FireDamperCmd	Fire damper command	12328	0=Off 1=On	2.40 and prev.
HeatingPmpCmdOnOff	Heating pump command	10264	0=Off 1=On	2.40 and prev.
HrecOnOff	Heat recovery on/off	3016	0=Off 1=On	2.40 and prev.
HrecPmpCmdOnOff	Heat recovery (pump) command	59969	0=Off 1=On	2.40 and prev.
HumidityCtrlCmdOnOff	Humidifier command	18044	0=Off 1=On	2.40 and prev.
HumidityCtrlPmpCmdOnOff	Humidifier pump command	49625	0=Off 1=On	2.40 and prev.

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ActvClgRecPrVal	Cooling recovery	20016	0=Passive 1=Active	2.40 and prev.
BlkClgRecPrVal	Block cooling recovery	27019	0=Inactive 1=Active	2.40 and prev.
BlkHtgRecPrVal	Block heat recovery	32783	0=Inactive 1=Active	2.40 and prev.
CalibrationAlm	Calibration alarm	12464	0=Ok 1=Alarm	2.40 and prev.
CgEm24ModbusAlm	CG-EM24 com alarm	49897	0=Ok 1=Alarm	2.40 and prev.
CommTest	Communication test pulse	60516	0=0 1=1	2.40 and prev.
DefrostActvReCooler	ReCooler - Defrosting activated	9543	0=Inactive 1=Active	2.40 and prev.
EconetAlm	Econet alarm	48629	0=Ok 1=Alarm	2.40 and prev.
EconetModbusAlm	Econet com alarm	14622	0=Ok 1=Alarm	2.40 and prev.
ExhFanBrkChopFltWarn	OJ-DV exhaust fan break chopper fault warning	19549	0=Ok 1=Alarm	2.52
ExhFanComErMOCAIm	OJ-DV exhaust fan com. error MOC alarm	45653	0=Ok 1=Alarm	2.52
ExhFanDevAlmAlm	Exh fan deviation	31724	0=Passive 1=Active	2.40 and prev.
ExhFanDevInAlarm	Exhaust fan deviation - Alarm	851	0=Ok 1=Alarm	2.40 and prev.
ExhFanEEPromWarn	OJ-DV exhaust fan EEPROM error warning	42595	0=Ok 1=Alarm	2.52
ExhFanExt24VOverload	OJ-DV exhaust fan ext.24V supply overload	20714	0=Ok 1=Alarm	2.52
ExhFanIHlAlm	OJ-DV exhaust fan I HI alarm	35044	0=Ok 1=Alarm	2.52
ExhFanInpPhaseWarn	OJ-DV exhaust fan input phase error	48716	0=Ok 1=Alarm	2.52
ExhFanIntHWAIm	OJ-DV exhaust fan internal HW fault alarm	12014	0=Ok 1=Alarm	2.52
ExhFanIntStopAlm	OJ-DV exhaust fan internal stop alarm	11735	0=Ok 1=Alarm	2.52
ExhFanLimitWarn	OJ-DV exhaust fan limit warning	61771	0=Ok 1=Alarm	2.52
ExhFanModbusAlm	Exhaust fan com alarm	2305	0=Ok 1=Alarm	2.40 and prev.
ExhFanMotorPhaseAlm	OJ-DV exhaust fan motor phase error alarm	28131	0=Ok 1=Alarm	2.52
ExhFanRotBlkWarn	OJ-DV exhaust fan rotor blocked error	18566	0=Ok 1=Alarm	2.52
ExhFanRotDirAlm	OJ-DV exhaust fan rotor direction alarm	3591	0=Ok 1=Alarm	2.52
ExhFanTmpHiWarn	OJ-DV exhaust fan temperature high warning	3294	0=Ok 1=Alarm	2.52
ExhFanWarn	OJ-DV exhaust fan warning	34793	0=Ok 1=Alarm	2.52
ExhFanVHiAlm	OJ-DV exhaust fan V HI alarm	22371	0=Ok 1=Alarm	2.52
ExhFanVLoAlm	OJ-DV exhaust fan V LO alarm	63996	0=Ok 1=Alarm	2.52
ExhFanVRippleWarn	OJ-DV exhaust fan V ripple warning	49301	0=Ok 1=Alarm	2.52
FanOpHrsAlm	Fan operating hours alarm	36120	0=Ok 1=Alarm	2.40 and prev.
HRecModbusAlm	Heat exchanger com alarm	11442	0=Ok 1=Alarm	2.40 and prev.
IBC_Clean	Heat recovery - Purging	32740	62 0=Off 1=On	2.62

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
IBC_RotMon	Heat recovery - Rotor monitor	64099	0=Off 1=On	2.62
IBC_Tripp	Heat recovery - Tripped control unit	4939	0=Normal 1=Alarm	2.62
ManualMode	Manual mode	24032	0=Auto 1=Manual	2.40 and prev.
MBCommAlm	Modbus communication alarm	57614	0=Ok 1=Alarm	2.40 and prev.
ReCoolerCirc1Alm	ReCooler circuit 1 alarm	57971	0=Ok 1=Alarm	2.52
ReCoolerCirc2Alm	ReCooler circuit 2 alarm	31151	0=Ok 1=Alarm	2.52
ReCoolerCirc3Alm	ReCooler circuit 3 alarm	3867	0=Ok 1=Alarm	2.52
ReCoolerCompAlm	ReCooler compressor alarm	43898	0=Ok 1=Alarm	2.52
ReCoolerDiffPrsAlm	ReCooler diff.pressure alarm	22662	0=Ok 1=Alarm	2.52
ReCoolerDischaPrbAlm	ReCooler discharge probe error alarm	23528	0=Ok 1=Alarm	2.52
ReCoolerDischaTmpAlm	ReCooler discharge temp alarm	51749	0=Ok 1=Alarm	2.52
ReCoolerEEVAlm	ReCooler EEV error alarm	14095	0=Ok 1=Alarm	2.52
ReCoolerHighEnvlAlm	ReCooler high envelope alarm	58255	0=Ok 1=Alarm	2.52
ReCoolerLowEnvlAlm	ReCooler low envelope alarm	27958	0=Ok 1=Alarm	2.52
ReCoolerLowSupHeatAlm	ReCooler low super heat alarm	51788	0=Ok 1=Alarm	2.52
ReCoolerMaxPrsAlm	ReCooler max pressure alarm	42357	0=Ok 1=Alarm	2.52
ReCoolerMinPrsAlm	ReCooler min pressure alarm	11761	0=Ok 1=Alarm	2.52
ReCoolerRotorAlm	ReCooler rotor alarm	51899	0=Ok 1=Alarm	2.52
ReCoolerSucPrbAlm	ReCooler suction probe error alarm	42594	0=Ok 1=Alarm	2.52
ReCoolerVFDAIm	ReCooler VFD alarm	64374	0=Ok 1=Alarm	2.52
ReCoolerVFDOffLineAlm	ReCooler VFD offline alarm	56902	0=Ok 1=Alarm	2.52
RevClgModbusAlm	ReCooler alarm	5243	0=Ok 1=Alarm	2.40 and prev.
RmHumDevAlmAlm	Room air humidity deviation	21718	0=Passive 1=Active	2.40 and prev.
RtRmTmpDevAlmAlm	Extract/Room air temperature deviation	7373	0=Passive 1=Active	2.40 and prev.
RtTmpFireAlm	Extract air temperature fire alarm	4286	0=Ok 1=Alarm	2.40 and prev.
SplyFanBrkChopFltWarn	OJ-DV supply fan break chopper fault warning	20345	0=Ok 1=Alarm	2.52
SplyFanComErMOCAlm	OJ-DV supply fan com. error MOC alarm	30320	0=Ok 1=Alarm	2.52
SplyFanDevAlmAlm	Supply fan deviation	6486	0=Passive 1=Active	2.40 and prev.
SplyFanDevInAlarm	Supply fan deviation - Alarm	850	0=Ok 1=Alarm	2.40 and prev.
SplyFanEEPROMWarn	OJ-DV supply fan EEPROM error warning	11239	0=Ok 1=Alarm	2.52
SplyFanExt24VOverload	OJ-DV supply fan ext.24V supply overload	21454	0=Ok 1=Alarm	2.52
SplyFanIHlAlm	OJ-DV supply fan I HI alarm	59998	0=Ok 1=Alarm	2.52

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
SplyFanInpPhaseWarn	OJ-DV supply fan input phase error	644	0=Ok 1=Alarm	2.52
SplyFanIntHWAIm	OJ-DV supply fan internal HW fault alarm	17719	0=Ok 1=Alarm	2.52
SplyFanIntStopAlm	OJ-DV supply fan internal stop alarm	41043	0=Ok 1=Alarm	2.52
SplyFanLimitWarn	OJ-DV supply fan limit warning	62854	0=Ok 1=Alarm	2.52
SplyFanModbusAlm	Supply fan com alarm	45899	0=Ok 1=Alarm	2.40 and prev.
SplyFanMotorPhaseAlm	OJ-DV supply fan motor phase error alarm	50100	0=Ok 1=Alarm	2.52
SplyFanRotBlkWarn	OJ-DV supply fan rotor blocked error	50434	0=Ok 1=Alarm	2.52
SplyFanRotDirAlm	OJ-DV supply fan rotor direction alarm	2762	0=Ok 1=Alarm	2.52
SplyFanTmpHiWarn	OJ-DV supply fan temperature high warning	2067	0=Ok 1=Alarm	2.52
SplyFanWarn	OJ-DV supply fan warning	64963	0=Ok 1=Alarm	2.52
SplyFanVHiAlm	OJ-DV supply fan V HI alarm	13785	0=Ok 1=Alarm	2.52
SplyFanVLoAlm	OJ-DV supply fan V LO alarm	39750	0=0 1=1	2.52
SplyFanVRippleWarn	OJ-DV supply fan V ripple warning	1200	0=Ok 1=Alarm	2.52
SplyHumDevAlmAlm	Supply air humidity deviation	57113	0=Passive 1=Active	2.40 and prev.
SplyTmpDevAlmAlm	Supply air temperature deviation	38175	0=Passive 1=Active	2.40 and prev.
SplyTmpFireAlm	Supply air temperature fire alarm	44098	0=Ok 1=Alarm	2.40 and prev.
TWCtrlr	Twin Wheel controller alarm	9042	0=Ok 1=Alarm	2.40 and prev.
ZoneCtrlr	Zone controller	61922	0=Ok 1=Alarm	2.40 and prev.

CALENDAR

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CalendarAux	Calendar aux	29758	0=Date 1=Range 2=Wday 3=Inv	2.40 and prev.
CalendarEx	Calendar exception	38114	0=Date 1=Range 2=Wday 3=In	2.40 and prev.
CalendarOff	Calendar fix off	51936	0=Date 1=Range 2=Wday 3=In	2.40 and prev.

MULTI STATE OUTPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CoolingCmdDxSt	Cooling DX command	30094	0=Auto 1=Off 2=St1 3=St2 4=St3	2.40 and prev.
ElectricalHtgCmdStSt	Electrical heating command	11590	0=Auto 1=Off 2=St1 3=St2 4=St3	2.40 and prev.
ExhFanCmdSt	Exhaust fan command	14719	0=Auto 1=Off 2=St1 3=St2 4=St3	2.40 and prev.
ExtraClgCmdDxSt	Extra cooling DX command	27550	0=Auto 1=Off 2=St1 3=St2 4=St3	2.40 and prev.
ExtraElHtgCmdStSt	Extra electrical heating command	30897	0=Auto 1=Off 2=St1 3=St2 4=St3	2.40 and prev.

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AckAlmPls	Alarm acknowledge	39130	0=Off 1=On	2.40 and prev.
ActCtrlMode	Actual temperature control mode	28561	0=Room 1=Return 2=Supply	2.40 and prev.
ActCtrlModeHum	Actual humidification control mode	25131	0=Room 1=Return 2=Supply	2.40 and prev.
ActFanStep	Actual fan step	28279	0=Off 1=Stage1 2=Stage2 3=Stage3	2.40 and prev.
ActOpMode	Actual operating mode	6080	0=Off 1=On/Comfort 2=Economy 3=Na 4=Osstp 5=Nightcooling 6=Unoccupied (Temperature start) 7=Nightkick (Test temperature) 8=Firedamper test 9=Fire 10=Stop 11=Overrun 12=Startup	2.40 and prev.
ActOpSta	Actual operation status	32321	0=Nu 1=Configuration error 2=SUF 3=Fire alarm activated 4=MsgCl0 5=Emergency Stop 6=MsgCl1 7=Fire damper test activated 8=Manual operation 9=ExtC 10=BMS 11=Time scheduling program 12=Boost 13=Night heating/Night cooling	2.40 and prev.
ActvClgRecKval	Activate cooling recovery - KVal	19801	0=Lower 1=Higher	2.40 and prev.
AlmCl0	Alarm class Danger alarm (A) status	46769	0=Normal 1=Alarm	2.40 and prev.
AlmCl1	Alarm class Critical alarm (A) status	42640	0=Normal 1=Alarm	2.40 and prev.
AlmCl2	Alarm class Low alarm (B) status	38643	0=Normal 1=Alarm	2.40 and prev.
AlmCl3	Alarm class Warning alarm (C) status	34514	0=Normal 1=Alarm	2.40 and prev.
AuxiliaryBmsTimeAuxSwth	Aux BMS TSP output	48172	0=Auto 1=Off 2=On	2.40 and prev.
AuxiliaryTspCopyAuxPls	AuxiliaryTspCopyAux.PlS	44050	0=Auto 1=Off 2=On	2.40 and prev.
BlkClgRecKval	Block cooling recovery - KVal	39893	0=Lower 1=Higher	2.40 and prev.
BlkHtgRecKval	Block heat recovery - KVal	40828	0=Lower 1=Higher	2.40 and prev.
CG_EM24_1ResetParPls	Energy meter reset partial	53050	0=Passive 1=Active	2.40 and prev.
CommTestEn	Enable communication test	1708	0=No 1=Yes	2.40 and prev.

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CounterFlowExchOffset-Boost	Counter flow heat exchanger - Offset boost	3329	0=Low Boost 1=Normal Boost 2=High Boost	2.40 and prev.
DPTSnsrModbusAlm	DPT sensor com alarm	30051	0=Ok 1=Alarm	2.40 and prev.
EconetActOpMode	Econet operation mode	50595	0=Stop 1=Alarm 2=Idle 3=Startup 4=Heatrec 5=Cooling 6=Coolrec 7=Manual	2.40 and prev.
ExhEngUnit	Exhaust fan engineering unit	43819	0=% 1=Pa 2=l/s 3=m³/h	2.40 and prev.
ExhFanActAlm	Exhaust fan alarm	18848	0=Nu 1=MOvrVlt. 2=MUndrVlt. 3=DClinkUndrVlt 4=DClinkOvrVlt 5=IntElectr 6=Locked 7=HallSnsr 8=Ovrh	2.52
ExhFanActWarn	Exhaust fan warning	39335	0=Nu 1=OpenCircuitInp 2=ActSpdLowLim 3=BrkOp 4=DClinkVlt 5=ElectrTmp 6=MtrTmp 7=OutpStgTmp 8=Mes	2.52
ExtControlActMode	Actual operation mode external control	30799	0=Auto 1=Off 2=Stage1 3=Stage2 4=Stage3	2.40 and prev.
ExtControlStep	External control fan step	28852	0=Auto 1=Off 2=1Step 3=2Step 4=3Step	2.40 and prev.
ExtraHtgPreHtgactv	Pre htg 2 state	24454		2.40 and prev.
FireDamper1Operation	Fire damper 1 mode	9703		2.40 and prev.
FireDamperState	Fire damper state	24347	0=NotDefined 1=Closed 2=Moving 3=Opened	2.40 and prev.
FireDamperTestStrtH-MIPs	Fire damper test	64867	0=Passive 1=Active	2.40 and prev.
HeatingPreHtgactv	Heating Pre-heating state	55722		2.40 and prev.
HumEngUnit	Humidity engineering unit	13725	0=%r.H. 1=g/kg	2.40 and prev.

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
IBC_Alm	Heat recovery - Error code	55390	1=Normal 2=Internal error 3=Internal error 4=Motor temp 5=Low temp 6=Overheat 7=Low voltage 8=High voltage 9=Many surge events 10=Rotation monitor alarm 11=Rotating at upstart 12=Motor current high 13=Overload (fast) 14=Overload 15=Insufficient load 16=Error in motor control 17=Short Circuit 18=Phase imbalance 19=Phase 1 Missing 20=Phase 2 Missing 21=Phase 3 Missing 22=Impedance high 23=Impedance low 24=Internal error	2.62
IBC_OpMode	Heat recovery - Operation mode	38318	1=Low speed DIP switch ON 2=High speed DIP switch ON 3=Manual speed 4=Control signal 5=No operation, cleaning OFF 6=No operation, cleaning ON 7=Cleaning ON	2.62
MECHactv	Cooling recovery activated	59996	0=Off 1=On	2.40 and prev.
Nbr_CircReCooler	ReCooler number of circuits	43500	0=NotUsed 1=eQKR008 2=eQKR011 3=eQKR018 4=eQKR023 5=eQKR032 6=eQKR041 7=eQKR050 8=eQKR072	2.42
NightUnoccCoolingMode	Cooling coil (night cooling)	6316	0=Inactive 1=Active	2.40 and prev.
NightUnoccHeatingMode	Heating coil (night heating)	17477	0=Inactive 1=Active	2.40 and prev.
OpModeAutoManStSwth	Manual operation (steps)	31604	0=Auto 1=Off 2=Stage1 3=Stage2 4=Stage3	2.40 and prev.
OpModeAutoManStTmpSwth	Manual operation (steps/temperature)	60288	0=Auto 1=Off 2=Eco St1 3=Comf St1 4=Eco St2 5=Comf St2 6=Eco St3 7=Comf St3	2.40 and prev.
OpModeBmsTimeStSwth	BMS TSP steps	8442	0=Auto 1=Off 2=Stage 1 3=Stage 2 4=Stage 3	2.40 and prev.

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
OpModeBmsTimeStT-mpSwTch	BMS TSP steps/temperature	32040	0=Auto 1=Off 2=Eco St1 3=ComfSt1 4=Eco St2 5=Comf St2 6=EcoSt3 7=Comf St3	2.40 and prev.
OpModeTspCopyUnitPls	OpModeTspCopyUnit.Pls	33544		2.40 and prev.
OpStaReCooler	ReCooler operation status	41090	0=Stop 1=Running Full 2=Defrost 3=In Alarm 4=Heating 5=Cooling 6=Mandatory OFF 7=Stand By 8=Start Up	2.40 and prev.
OpStaReCooler1	ReCooler circuit 1 operation status	57729	0=Stand By 1=Init 2=Unit running 3=Defrost 4=Rev. cycle defrost 5=Exh. Coil low temp 6=Start phase 7=Pressure diff. limit 8=Start delay 9=Alarm 10=Compressor shut off 11=Cool/Heat mode select 12=Heater run 13=Alarm unit 1 14=Alarm unit 2 15=Alarm unit 3 16=Defrost ramp up 17=Check refrigerator charge 18=Quick start	2.52
OpStaReCooler2	ReCooler circuit 2 operation status	53730	0=Stand By 1=Init 2=Unit running 3=Defrost 4=Rev. cycle defrost 5=Exh. Coil low temp 6=Start phase 7=Pressure diff. limit 8=Start delay 9=Alarm 10=Compressor shut off 11=Cool/Heat mode select 12=Heater run 13=Alarm unit 1 14=Alarm unit 2 15=Alarm unit 3 16=Defrost ramp up 17=Check refrigerator charge 18=Quick start	2.52

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
OpStaReCooler3	ReCooler circuit 3 operation status	49603	0=Stand By 1=Init 2=Unit running 3=Defrost 4=Rev. cycle defrost 5=Exh. Coil low temp 6=Start phase 7=Pressure diff. limit 8=Start delay 9=Alarm 10=Compressor shut off 11=Cool/Heat mode select 12=Heater run 13=Alarm unit 1 14=Alarm unit 2 15=Alarm unit 3 16=Defrost ramp up 17=Check refrigerator charge 18=Quick start	2.52
PressuresFilterChPls	Filters changed, pre-alarm acknowledge	46288	0=Passive 1=Active	2.40 and prev.
SeqHumEngUnit	Humidification engineering unit	64493	0=%r.H. 1=g/kg	2.40 and prev.
SnsrModbusAlm	Sensors com alarm	53317	0=Ok 1=Alarm	2.40 and prev.
SplyEngUnit	Supply fan engineering unit	54155	0=% 1=Pa 2=l/s 3=m³/h	2.40 and prev.
SplyFanActAlm	Supply fan alarm	32186	0=Nu 1=M0vrVlt. 2=MUndrVlt. 3=DCLinkUndrVlt 4=DCLinkOvrVlt 5=IntElectr 6=Locked 7=HallSnsr 8=Ovrh	2.52
SplyFanActWarn	Supply fan warning	62832	0=Nu 1=OpenCircuitInp 2=ActSpdLowLlim 3=BrkOp 4=DCLinkVlt 5=ElectrTmp 6=MtrTmp 7=OutpStgTmp 8=Mes	2.52
SuWiSwTchCheckState	Summer/Winter mode	24616		2.40 and prev.
TimeSchedAux	Aux TSP output	52222		2.40 and prev.
TimeSchedSt	Actual time switch program (steps)	12316	0=Off 1=Stage1 2=Stage2 3=Stage3	2.40 and prev.
TimeSchedStTmp	Actual time switch program (steps/temperature)	596	0=Auto 1=Off 2=Eco St1 3=Comf St1 4=Eco St2 5=Comf St2 6=Eco St3 7=Comf St3	2.40 and prev.

POSITIVE INTEGER VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExhFanAlmWarn	Danfoss / OJ-DV Exhaust fan alarm warning	15816		2.52
IBC_NbrOfDrpCon	Heat recovery - Number of dropped Modbus connections	4384		2.62
IBC_NbrOfFaultyPackets	Heat recovery - Number of faulty Modbus packets	62302		2.62
IBC_NbrOfOKPackets	Heat recovery - Number of OK Modbus packets	29945		2.62
IBC_TmActiveFltEr	Heat recovery - Time with active error	31030	h	2.62
IBC_TotOpTimeUnit	Heat recovery - Total operation time for the control unit	30070	h	2.62
SplyFanAlmWarn	Danfoss/OJ-DV Supply fan alarm warning	52012		2.52

SCHEDULE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ScheduleAux	Schedule aux output	55253		2.40 and prev.
ScheduleSt	Schedule steps	31059		2.40 and prev.
ScheduleStTmp	Schedule steps/tmp	32703		2.40 and prev.

BACNET MS/TP COMMUNICATION MODULE

BACNET OBJECTS OF eQ FLÄKT V3.XX

INTRODUCTION

The following table lists all BACnet objects provided by the eQ Fläkt application AHU V3.xx to integrate Climatix in a building automation and control system.

ANALOG INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AftClg1Hum	Humidity after Cooling 1	17074	%r.H.	
AftClg1Tmp	Temperature after Cooling 1	15862	°C	
AftClg2Hum	Humidity after Cooling2	55662	%r.H.	
AftClg2Tmp	Temperature after Cooling2	42538	°C	
AftClg3Hum	Humidity after Cooling 3	45018	%r.H.	
AftClg3Tmp	Temperature after Cooling 3	53406	°C	
AftCmb1Hum	Humidity after Combi 1	9285	%r.H.	
AftCmb1Tmp	Temperature after Combi 1	23297	°C	
AftCmb2Hum	Humidity after Combi 2	49049	%r.H.	
AftCmb2Tmp	Temperature after Combi 2	49373	°C	
AftCmb3Hum	Humidity after Combi 3	51501	%r.H.	
AftCmb3Tmp	Temperature after Combi 3	46697	°C	
AfterMixHum	Humidity after mixing	7183	%r.H.	
AftHtg1Hum	Humidity after Heating 1	7771	%r.H.	
AftHtg1Tmp	Temperature after Heating 1	24863	°C	
AftHtg2Hum	Humidity after Heating 2	34183	%r.H.	
AftHtg2Tmp	Temperature after Heating 2	64195	°C	
AftHtg3Hum	Humidity after Heating 3	62259	%r.H.	
AftHtg3Tmp	Temperature after Heating 3	35959	°C	
AftMixingTmp	Temperature after mixing	31889	°C	
AftRtHumHum	Humidity after Extract humidifier	22396	%r.H.	
AftSplyHumHum	Humidity after supply humidifier	8095	%r.H.	
AftSplyHumTmp	Temperature after supply humidifier	24795	°C	
AuxTmp	Auxiliary temperature	115	°C	
BalPrs	Pressure balancing	28023	Pa	
Coil2WtrTmp	Combi coil 2 water temperature	48851	°C	
CoilWtrTmp	Combi coil 1 wtr temperature	23945	°C	
ExExtraFilter	Extract extra filter 2	27360	Pa	
ExFilter	Extract air filter sensor	10582	Pa	
ExhaustTmp	Exhaust air temperature	40895	°C	
ExhaustTmp2	Exhaust air temperature 2	56135		
ExhDensTmp	Exhaust density air temperature	58983	°C	
ExhFan_DCLCurrent	Supply fan DCL Current	32361	A	
ExhFan_DCLVoltage	Supply fan DCL Voltage	9232	V	
ExhFan_FanSpeed	Exhaust fan speed	41627	Rpm	
ExhFan_MaxSpeed	Exhaust fan max speed	58193	Rpm	
ExhFan_ModTemp	Exhaust fan mod temperature	12204	°C	
ExhFan_MotTemp	Exhaust fan mot temperature	11254	°C	
ExhFan_OpTime	Exhaust fan - Operating time	6069		
ExhFan_OpTimeHH	Exhaust fan - Operating time, hours	8243	h	
ExhFan_OpTimeMM	Exhaust fan - Operating time, minutes	36707	min	
ExhFan_PCCTemp	Exhaust fan PCB temperature	2311	°C	
ExhFan_Power	Exhaust fan Power	42634	W	

ANALOG INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExhFanExtSpv	Exhaust fan external setpoint	48207	Pa or l/s depending on fan control type.	
ExPreFilter	Extract air pre-filter sensor	19767	Pa	
ExtraFrstTmp	Heating 2 frost temperature	4854	°C	
ExtraSupplyTmp	Supply air temperature 2	20915	°C	
ExtSetpointSpv	External setpoint	12205	°C	
FrostTmpLowLimit	Heating 1 frost temp sensor - Low limit active	852	0=Passive 1=Active	
HrecFrstPrs	Heat recovery frost pressure	39125	Pa	
HrecInTakePrs	Heat exchanger pressure drop	50488	Pa	
HrecSupplyTmp	Heat recovery supply air temp	44798	°C	
HrecSupplyTmp2	Heat recovery supply air temperature 2	48181	°C	
HrecWtrTmp	Heat recovery water temperature	12446	°C	
Htg2FrostTmpLowLimit	Heating 2 frost protection temperature - Low limit	855	°C	
Htg3FrostTmpLowLimit	Heating 3 frost protection temperature - Low limit	857	°C	
Htg3FrstTmp	Heating 3 frost temperature	6535	°C	
HtgFrstTmp	Heating 1 frost temperature	50341	°C	
OutHum	Outdoor air relative humidity	45222	%r.H.	
OutTmp	Outdoor air temperature	53218	°C	
OutTmpWall	Outdoor wall temperature sensor	49723	°C	
PreHtgFrostTmpLowLimit	Pre-heating frost temp sensor - Low limit	856	°C	
PreHtgFrstTmp	Pre-heater frost temperature	65041	°C	
PreHtgSupplyTmp	Pre-heater supply air temperature	35237	°C	
ReturnAirTmp	Extract air temperature	28256	°C	
ReturnAirTmp2	Extract air temperature after humidifier	64377	°C	
ReturnFlow	Exhaust air flow	38593	l/s	
ReturnPrs	Exhaust air pressure	39576	Pa	
RoomHum	Room relative humidity	37799	%r.H.	
RoomHum2	Room humidity 2 (relative)	715	%r.H.	
RoomTmp	Room temperature	60643	°C	
RoomTmp2	Room temperature 2	51635	°C	
RtHum	Extract air humidity (relative)	3708	%H.r.	
SplyDensTmp	Supply air density temperature	40647		
SplyExtraFilter	Supply air extra filter 1	14967	Pa	
SplyFan_DCLCurrent	Supply fan DCL Current	56927	A	
SplyFan_DCLVoltage	Supply fan DCL Voltage	33830	V	
SplyFan_FanSpeed	Supply fan speed	48513	Rpm	
SplyFan_MaxSpeed	Supply fan max speed	64587	Rpm	
SplyFan_ModTemp	Supply fan mod temperature	28696	°C	
SplyFan_MotTemp	Supply fan mot temperature	29762	°C	
SplyFan_OpTime	Supply fan - Operating time	8364		
SplyFan_OpTimeHH	Supply fan - Operating time, hours	16169	h	
SplyFan_OpTimeMM	Supply fan - Operating time, minutes	36985	min	
SplyFan_PCBTemp	Supply fan PCB temperature	22195	°C	
SplyFan_Power	Supply fan Power	39978	W	
SplyFanExtSpv	Supply fan external setpoint	30575	Pa or l/s depending on fan control type.	
SplyFilter	Outdoor air filter sensor	59395	Pa	
SplyPreFilter	Outdoor air pre-filter sensor	44474	Pa	
SupplyFlow	Supply air flow	9497	l/s	
SupplyHum	Supply air relative humidity	53018	%r.H.	
SupplyPrs	Supply air pressure	20400	Pa	
SupplyTmp	Supply air temperature	45150	0=Ok 1=Alarm	

ANALOG OUTPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AuxOutput	Auxiliary analog output fan	22813	0-100%	
BalanceCntrlPos	Pressure balancing extract damper controller output signal	57034	0-100%	
BalCntrlSplyPos	Mixing outdoor damper controller output signal	38455	0-100%	
Cooling3Pos	Cooling 3 output signal	5870	0-100%	
CoolingPmpVarPos	Cooling 1 pump output signal	45643	0-100%	
CoolingPos	Cooling output signal	30925	0-100%	
ExhFanVarPos	Exhaust fan output signal	40119	0-100%	
ExtraClgPmpVarPos	Cooling 2 pump output signal	59738	0-100%	
ExtraClgPos	Cooling 2 output signal	60283	0=Off 1=On	
ExtraHtgPmpVarPos	Heating 2 pump output signal	166	0-100%	
ExtraHtgPos	Heating 2 output signal	46994	0=Off 1=On	
Heating3Pos	Heating 3 output signal	18705	0-100%	
HeatingPmpVarPos	Heating 1 pump output signal	34442	0-100%	
HeatingPos	Heating 1 output signal	26209	0=Off 1=On	
HrecDampPos	Heat recovery damper output signal	49662	0-100%	
HrecPmpVarPos	Heat recovery pump output signal	29755	0-100%	
HrecPos	Heat recovery output signal	5922	0-100%	
HumForceHtgPos	Force heating output signal	5392	0-100%	
HumidityCtrlPmpVarPos	Humidifier pump output signal	51005	0-100%	
HumidityCtrlPos	Humidifier output signal	39618	0-100%	
PreHeatingPos	Pre-heater output signal	17784	0-100%	
ReCoolingPos	ReCooler cooling output signal	23338	0-100%	
ReHeatingPos	ReCooler heating output signal	17798	0-100%	
RtCoolingPos	Extract air cooling output signal	28431	0-100%	
SplyFanVarPos	Supply fan output signal	59037	0-100%	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ActBlkDHumTmp	Actual dew point block dehumidification	2008	°C	
ActCascSpvClg	Actual supply cooling setpoint (when use of cascade control)	2735	°C	
ActCascSpvDeh	Actual supply dehumidification setpoint	50248	%r.H.	
ActCascSpvHtg	Actual supply heating setpoint (when use of cascade control)	28804	°C	
ActCascSpvHum	Actual supply humidification setpoint	58111	%r.H.	
ActCtrlVal	Actual controlled temperature	52988	°C	
ActCtrlValHum	Actual controlled humidity	38385	%r.H.	
ActHRDewSp	Actual heat recovery dewpoint setpoint value	3738	°C	
ActMainSpvClg	Actual cooling setpoint, Main (depending on actual control mode)	30105	°C	
ActMainSpvDeh	Actual dehumidification setpoint	47998	%r.H.	
ActMainSpvHtg	Actual heating setpoint, Main (depending on actual control mode)	4018	°C	
ActMainSpvHum	Actual humidity setpoint	40393	%r.H.	
ActvClgRecDev	Activate cooling recovery - Temperature difference	3315	K	
AirQCmpCtrlLoopKp	Air quality compensation - Proportional factor	21855		
AirQCmpCtrlLoopTD	Air quality compensation - Differential factor	21857	s	
AirQCmpCtrlLoopTI	Air quality compensation - Integral factor	21856	s	
AirQCmpPrVal	Actual air quality compensation	10236	0-100%	
AirQSpv	Air quality setpoint	22649	ppm	
AirQuality	Air quality	3737	ppm	
AlmAckBtnCOM	Alarm Ack button - Value comm.	1899	0=Off 1=On	
BalCtrlSplyLowLimit	Balance control - Min pressure outdoor damper	2429	Pa	
BalDmpMaxTm	Balance control - Max time	31736	s	
BalDmpTm	Balance control - Force damper at start time	5939	s	
BalMaxDev	Balance control - Max pressure deviation	49991	Pa	
BalPrsLowLmt	Balance control - Min pressure extract damper	28570	0-100%	
BalPrsSp	Balance control - Pressure setpoint	22141	Pa	
BlkClgRecDev	Block cooling recovery - Temperature difference	228	K	
BlkHtgRecDev	Block heat recovery - Temperature difference	33121	K	
BoostClgSpv	Boost cooling setpoint	44092	°C	
BoostHtgSpv	Boost heating setpoint	27113	°C	
BoostPreStrtTm	Boost pre-start time	3510	min	
FanCmpTmpPrVal	Actual fan compensation temperature	9430	0-100%	
SplyTmpDevAlmMaxDev	Supply temperature - Maximum deviation	9756	°C	
SplyFanTD_Flw	Supply fan controller (flow control) - Differential factor	9781	s	
AirQCmpPrVal	Actual air quality compensation	10236	0-100%	
HumSpvRelSpvHum	Relative humidity - Humidification setpoint	10627	%r.H. or g/kg depending on configuration	
HumSpvRelSpvDehum	Relative humidity - Dehumidification setpoint for humidification	11342	%r.H. or g/kg depending on configuration	
WiCmpTmpDta	Winter compensation temperature delta	11601	K	
BoostRmSpv	Boost room temperature setpoint	13266	°C	
CalibrationActvTm	Calibration - Time delay	17241	s	
CalibrationExhFanStart	Calibration - Q-min exhaust fan start	34380	l/s	
CalibrationExhFanStop	Calibration - Q-min exhaust fan stop	46866	l/s	
CalibrationMaxDev	Calibration - Maximum deviation	32048	l/s	
CalibrationQ	Calibration Q	38555	l/s	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CalibrationQExh	Calibration Q Exhaust	38027	l/s	
CalibrationQRed	Calibration - Reduce Q	59099	0-100%	
CalibrationQRt	Calibration Q Extract	54865	l/s	
CalibrationStoPmax	Calibration - P-max pressure heat exchanger	48462	Pa	
CalibrationStoPmin	Calibration - P-min pressure heat exchanger	17936	Pa	
CalibrationStoQmax	Calibration - Q-max flow heat exchanger	52218	l/s	
CalibrationStoQmin	Calibration - Q-min flow heat exchanger	12452	l/s	
CascFlowLmtMaxDevLmt	Draught heating max deviation	57930	°C	
CascFlowLmtMinDevLmt	Draught cooling max deviation	27342	°C	
CG_EM24_1ActPower	Energy actual power	40280	W	
CG_EM24_1AvePower	Energy save power	36000	W	
CG_EM24_10pHours	Energy operating hours	49048	h	
CG_EM24_1ParEnergy	Energy partial	19610	kWh	
CG_EM24_1TotEnergy	Energy total	61249	kWh	
Clg1PmpActiveHour	Cooling 1 pump - Operating hours	875	h	
Clg2PmpActiveHour	Cooling 2 pump - Operating hours	876	h	
Clg3PmpActiveHour	Cooling 3 pump - Operating hours	878	h	
Clg3VlvAuto	Cooling 3 output signal-Auto mode P10	812	0-100%	
Clg3VlvValue	Cooling 3 output signal-Manual HMI BMS	811	0-100%	
ClgReClgCtrLoopKp	ReCooler cooling controller - Proportional factor	21849		
ClgReClgCtrLoopTD	ReCooler cooling controller - Differential factor	21851	s	
ClgReClgCtrLoopTI	ReCooler cooling controller - Integral factor	21850	s	
ClgVlvAuto	Cooling 1 output signal-Auto mode P10	802	0-100%	
ClgVlvValue	Cooling 1 output signal-Manual HMI BMS	801	0-100%	
CoHtgCurveSpvPrVal	Actual calculated heating setpoint (comfort)	47241	°C	
CoHtgToaCurveOutTX1	calculated heating setpoint (comfort) - X1	22000	°C	
CoHtgToaCurveOutTX2	calculated heating setpoint (comfort) - X2	22002	°C	
CoHtgToaCurveOutTX3	calculated heating setpoint (comfort) - X3	22004	°C	
CoHtgToaCurveOutTX4	calculated heating setpoint (comfort) - X4	22006	°C	
CoHtgToaCurveSpY1	calculated heating setpoint (comfort) - Y1	22001	°C	
CoHtgToaCurveSpY2	calculated heating setpoint (comfort) - Y2	22003	°C	
CoHtgToaCurveSpY3	calculated heating setpoint (comfort) - Y3	22005	°C	
CoHtgToaCurveSpY4	calculated heating setpoint (comfort) - Y4	22007	°C	
Cooling3CtrLoopKp	Cooling 3 - Proportional factor	21951		
Cooling3CtrLoopTD	Cooling 3 - Differential factor	21953	s	
Cooling3CtrLoopTI	Cooling 3 - Integral factor	21952	s	
Cooling3OffTmp	Cooling 3 disable by outdoor temperature	37768	°C	
CoolingCtrLoopKp	Cooling 1 - Proportional factor	21807		
CoolingCtrLoopTD	Cooling 1 - Differential factor	21809	s	
CoolingCtrLoopTI	Cooling 1 - Integral factor	21808	s	
CoolingOffTmp	Cooling 1 disable by outdoor temperature	16471	°C	
CounterFlowExchangerX1	Counter flow heat exchanger - X1	18421	°C	
CounterFlowExchangerX2	Counter flow heat exchanger - X2	30614	°C	
CounterFlowExchangerY1	Counter flow heat exchanger - Y1	29892	0-100%	
CounterFlowExchangerY2	Counter flow heat exchanger - Y2	17575	0-100%	
CRecDamperCtrLoopKp	Mixing damper cooling recovery controller - Proportional factor	21825		
CRecDamperCtrLoopTD	Mixing damper cooling recovery controller - Differential factor	21827	s	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CRecDamperCtrLoopTI	Mixing damper cooling recovery controller - Integral factor	21826	s	
CrecDampRec	Mixing damper cooling recovery output signal	33908	0-100%	
DeFrstMxSpd	Heat exchanger defrost max output signal	28660	°C	
DeHum2CtrLoopKp	Dehumidification 2 - Proportional factor	21957		
DeHum2CtrLoopTD	Dehumidification 2 - Differential factor	21959	s	
DeHum2CtrLoopTI	Dehumidification 2 - Integral factor	21958	s	
DeHum3CtrLoopKp	Dehumidification 3 - Proportional factor	21960		
DeHum3CtrLoopTD	Dehumidification 3 - Differential factor	21962	s	
DeHum3CtrLoopTI	Dehumidification 3 - Integral factor	21961	s	
DeHumidityCtrLoopKp	Dehumidification 1 - Proportional factor	21939		
DeHumidityCtrLoopTD	Dehumidification 1 - Differential factor	21941	s	
DeHumidityCtrLoopTI	Dehumidification 1 - Integral factor	21940	s	
DeHumidityPrVal	Actual dehumidification value	18150	0-100%	
DeHumidityPrVal2	Actual dehumidification value 2	55315	0-100%	
DeHumidityPrVal3	Actual dehumidification value 3	51250	0-100%	
Dewpoint	Supply dew point	21292	°C	
DewpointDz	Dew point - Neutral zone	41175	°C	
EcHtgCurveSpvPrVal	Actual calculated heating setpoint (economy)	48409		
EcHtgToaCurveOutTX1	Outdoor curve - temperature X1 (economy)	22016	°C	
EcHtgToaCurveOutTX2	Outdoor curve - temperature X2 (economy)	22018	°C	
EcHtgToaCurveOutTX3	Outdoor curve - temperature X3 (economy)	22020	°C	
EcHtgToaCurveOutTX4	Outdoor curve - temperature X4 (economy)	22022	°C	
EcHtgToaCurveSpY1	Outdoor curve - setpoint Y1 (economy)	22017	°C	
EcHtgToaCurveSpY2	Outdoor curve - setpoint Y2 (economy)	22019	°C	
EcHtgToaCurveSpY3	Outdoor curve - setpoint Y3 (economy)	22021	°C	
EcHtgToaCurveSpY4	Outdoor curve - setpoint Y4 (economy)	22023	°C	
ElHtgFanLmtArea	Area, electrical heater 1	6033	m ²	
ElHtgFanLmtKfactor	K-factor, electrical heater 1	47462	0-100%	
ElHtgFanLmtPrVal	Power reduction, electrical heater 1	27650	0-100%	
ElHtgFanLmtv	v, Flow over heater, electrical heater 1	24382	m/s	
ElHtgFanLmtvMax	vMax, air speed, electrical heater 1	52253	m/s	
ElHtgFanLmtvMin	vMin, air speed, electrical heater 1	14147	m/s	
EnergyDisplayCooling-1DaykWh	Energy display, cooling 1 - Today	19481	kWh	
EnergyDisplayCooling-1kW	Energy display, cooling 1 - Actual power	9637	kW	
EnergyDisplayCooling1Y-earMWh	Energy display, cooling 1 - Actual year	18492	MWh	
EnergyDisplayCooling-2DaykWh	Energy display, cooling 2 - Today	33900	kWh	
EnergyDisplayCooling-2kW	Energy display, cooling 2 - Actual power	48761	kW	
EnergyDisplayCooling2Y-earMWh	Energy display, cooling 2 - Actual year	63987	MWh	
EnergyDisplayCooling-3DaykWh	Energy display, cooling 3 - Today	50111	kWh	
EnergyDisplayCooling-3kW	Energy display, cooling 3 - Actual power	51405	kW	
EnergyDisplayCooling3Y-earMWh	Energy display, cooling 3 - Actual year	38582	MWh	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
EnergyDisplayFans-FansPowkW	Energy display, fans - Actual power	16864	kW	
EnergyDisplayFansYearMWh	Energy display, fans - Actual year	44942	MWh	
EnergyDisplayHeating-1DaykWh	Energy display, heating 1 - Today	15641	kWh	
EnergyDisplayHeating-1kW	Energy display, heating 1 - Actual power	15113	kW	
EnergyDisplayHeating1YearMWh	Energy display, heating 1 - Actual year	29524	MWh	
EnergyDisplayHeating-2DaykWh	Energy display, heating 2 - Today	62828	kWh	
EnergyDisplayHeating-2kW	Energy display, heating 2 - Actual power	41173	kW	
EnergyDisplayHeating2YearMWh	Energy display, heating 2 - Actual year	49819	MWh	
EnergyDisplayHeating-3DaykWh	Energy display, heating 3 - Today	45759	kWh	
EnergyDisplayHeating-3kW	Energy display, heating 3 - Actual power	54881	kW	
EnergyDisplayHeating3YearMWh	Energy display, heating 3 - Actual year	44510	MWh	
EnergyDisplayHrecDay-kWh	Energy display, heat recovery - Today	62791	kWh	
EnergyDisplayHreckW	Energy display, heat recovery - Actual power	56834	kW	
EnergyDisplayHrecYearMWh	Energy display, heat recovery - Actual year	22418	MWh	
EnergyDisplayPreHeatingDaykWh	Energy display pre-heating Day kWh	16999	kWh	
EnergyDisplayPreHeatingkW	Energy display pre-heating kW	27373	kW	
EnergyDisplayPreHeatingYearMWh	Energy display pre-heating Year MWh	62570	MWh	
EnergyDisplayTotCooling	Energy display cooling total	561	MWh	
EnergyDisplayTotFans	Energy display fans total	24666	MWh	
EnergyDisplayTotHeating	Energy display heating total	40656	MWh	
EnergyDisplayTotRecovery	Energy display heat recovery total	20954	MWh	
EnFanClgDev	temperature difference	47894	°K	
EnFanHtgDev	temperature diff.	59391	°K	
ExElHtgFanLmtArea	Area, electrical heater 2	60513	m ²	
ExElHtgFanLmtKfactor	K-factor, electrical heater 2	56166	0-100%	
ExElHtgFanLmtPrVal	Power reduction, electrical heater 2	49782	0-100%	
ExElHtgFanLmtv	v, Flow over heater, electrical heater 2	7175	m/s	
ExElHtgFanLmtvMax	vMax, air speed, electrical heater 2	14317	m/s	
ExElHtgFanLmtvMin	vMin, air speed, electrical heater 2	52403	m/s	
ExExtraFitPreAlm	Extract air extra filter 2 Pre-alarm	25356	0=Ok 1=Alarm	
ExFilterPreAlm	Extract air filter Pre-alarm	45194	Pa	
ExhFanActiveHour	Exhaust fan - Operating hours	871	h	
ExhFanActSpv	Actual exhaust fan setpoint	33255	l/s	
ExhFanActVal	Actual exhaust fan value	59694		
ExhFanCurrent	Danfoss / OJ-DV Exhaust fan current	52288	A	
ExhFanCurvePrVal	Actual calculated Exhfan.setpoint	10675		
ExhFanDevAlmMaxDev	Exhaust fan - Maximum deviation (flow control)	56254	%, Pa or l/s depending on configuration	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExhFanDevAlmMax-DevPrs	Exhaust fan - Maximum deviation (pressure control)	54886	Pa	
ExhFanDevAlmMinLmt	Exhaust fan - Minimum limit (flow control)	58855		
ExhFanDevAlmMinLmt-Prs	Exhaust fan - Minimum limit (pressure control)	48357	Pa	
ExhFanEnergy	Danfoss exhaust fan Energy	7102	kWh	
ExhFanKP_Flw	Exhaust fan controller (flow control) - Proportional factor	62586		
ExhFanKP_Pr	Exhaust fan controller - Proportional factor (pressure control)	25921		
ExhFanMotorVolt	Danfoss / OJ-DV Exhaust fan motor voltage	14530	V	
ExhFanOpDays	Danfoss / OJ-DV Exhaust fan - Operating days	36017	days	
ExhFanOpHrs	Danfoss / OJ-DV Exhaust fan - Operating hours	27013	h	
ExhFanOpMinutes	Danfoss / OJ-DV Exhaust fan - Operating minutes	49021	min	
ExhFanOutFreq	Danfoss / OJ-DV Exhaust fan frequency	65306	Hz	
ExhFanPower	Danfoss / OJ-DV Exhaust fan power	42046	kW	
ExhFanPrcOut	Danfoss / OJ-DV Exhaust fan output signal	55707	0-100%	
ExhFanSpeed	Danfoss / OJ-DV Exhaust fan speed	55889	Rpm	
ExhFanSpvMaxForce	Exhaust fan max force setpoint	2525	%, Pa or l/s depending on configuration	
ExhFanSpvSt1Spv	Exhaust fan step 1 setpoint	45030	%, Pa or l/s depending on configuration	
ExhFanSpvSt2Spv	Exhaust fan step 2 setpoint	13370	%, Pa or l/s depending on configuration	
ExhFanSpvSt3Spv	Exhaust fan step 3 setpoint	17038	%, Pa or l/s depending on configuration	
ExhFanTD_Flw	Exhaust fan controller (flow control) - Differential factor	17551	s	
ExhFanTD_Pr	Exhaust fan controller - Differential factor (pressure control)	54708	s	
ExhFanTI_Flw	Exhaust fan controller (flow control) - Integral factor	32009	s	
ExhFanTI_Pr	Exhaust fan controller - Integral factor (pressure control)	60466	s	
ExhFanToaCurveOutTX1	Exhaust fan outdoor compensation curve - temperature X1	12306	°C	
ExhFanToaCurveOutTX2	Exhaust fan outdoor compensation curve - temperature X2	113	°C	
ExhFanToaCurveOutTX3	Exhaust fan outdoor compensation curve - temperature X3	4176	°C	
ExhFanToaCurveOutTX4	Exhaust fan outdoor compensation curve - temperature X4	24759	°C	
ExhFanToaCurveSpY1	Exhaust fan outdoor compensation curve - setpoint Y1	3444	0-100%	
ExhFanToaCurveSpY2	Exhaust fan outdoor compensation curve - setpoint Y2	15639	0-100%	
ExhFanToaCurveSpY3	Exhaust fan outdoor compensation curve - setpoint Y3	11574	0-100%	
ExhFanToaCurveSpY4	Exhaust fan outdoor compensation curve - setpoint Y4	24017	0-100%	
ExhOJEngyCOM	OJ-DV Exhaust fan energy	1908	kWh	
ExPreFilterPreAlm	Extract air pre-filter Pre-alarm	23230	Pa	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExtControlDlyOffTm	Ext ctrl off delay	4853	h	
ExtCoolingCtrLoopKp	Cooling 2 - Proportional factor	21813		
ExtCoolingCtrLoopTD	Cooling 2 - Differential factor	21815	s	
ExtCoolingCtrLoopTI	Cooling 2 - Integral factor	21814	s	
ExtHeatingCtrLoopKp	Heating 2 - Proportional factor	21810		
ExtHeatingCtrLoopTD	Heating 2 - Differential factor	21812	s	
ExtHeatingCtrLoopTI	Heating 2 - Integral factor	21811	s	
ExtraClgOffTmp	Cooling 2 off temperature	54677	°C	
ExtraHtgFrstSpv	Heating 2 frost protection setpoint	4625	°C	
ExtraHtgFrstSpvStBy	Heating 2 frost protection setpoint stand-by	60579	0 - 100%	
ExtraHtgPreHtgX1	Heating 2, pre-heating - X1	27620	°C	
ExtraHtgPreHtgX2	Heating 2, pre-heating - X2	23431	°C	
ExtraHtgPreHtgY1	Heating 2, pre-heating - Y1	22741	°C	
ExtraHtgPreHtgY2	Heating 2, pre-heating - Y2	26806	0 - 100%	
ExtraHtgPrValAuto	Heating 2 output signal-Auto mode P10	806		
ExtraHtgPrValValue	Heating 2 output signal-Manual HMI BMS	805		
ExtraSpv	Extra Sequence setpoint	58349	°C	
ExtraSpv2	Extra setpoint 2	13916	°C	
ExtrPrsBalCtrLoopKp	Extract air pressure balance controller - Proportional factor	21837		
ExtrPrsBalCtrLoopTD	Extract air pressure balance controller - Differential factor	21839	s	
ExtrPrsBalCtrLoopTI	Extract air pressure balance controller - Integral factor	21838	s	
ExtSetpExhFanCOM	Exhaust fan external setpoint - Value comm.	1886	Pa or l/s depending on fan control type.	
ExtSetpointSpvCOM	External setpoint - Value comm.	1884	°C	
ExtSetpSplyFanCOM	Supply fan external setpoint - Value comm.	1885	Pa or l/s depending on fan control type.	
FanClgCtrLoopKp	Fan cooling - Proportional factor	21864		
FanClgCtrLoopTD	Fan cooling - Differential factor	21866	s	
FanClgCtrLoopTI	Fan cooling - Integral factor	21865	s	
FanClgPrVal	Actual fan cooling value	58670	0-100%	
FanCmpClgDz	Fan compensation - Cooling neutral zone	54041	°C	
FanCmpHtgDz	Fan compensation - Heating neutral zone	41346	°C	
FanCmpHumCtrLoopKp	Fan compensation (humidification) - Proportional factor	21933		
FanCmpHumCtrLoopTD	Fan compensation (humidification) - Differential factor	21935	s	
FanCmpHumCtrLoopTI	Fan compensation (humidification) - Integral factor	21934	s	
FanCmpHumPrVal	Actual fan compensation (humidification)	15399	0-100%	
FanCmpHumSpv	Fan compensation humidity setpoint	53848	%r.H.	
FanCmpTmpCtrLoopKp	Fan compensation (temp) - Proportional factor	21858		
FanCmpTmpCtrLoopTD	Fan compensation (temp) - Differential factor	21860	s	
FanCmpTmpCtrLoopTI	Fan compensation (temp) - Integral factor	21859	s	
FanCmpTmpPrVal	Actual fan compensation temperature	9430	0-100%	
FanCmpTmpSpv	Fan compensation - Temperature setpoint	59241	°C	
FanHtgCtrLoopKp	Fan heating - Proportional factor	21861		

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
FanHtgCtrLoopTD	Fan heating - Differential factor	21863	s	
FanHtgCtrLoopTI	Fan heating - Integral factor	21862	s	
FanHtgPrVal	Actual fan heating value	49915	0-100%	
Heating3CtrLoopKp	Heating 3 - Proportional factor	21948		
Heating3CtrLoopTD	Heating 3 - Differential factor	21950	s	
Heating3CtrLoopTI	Heating 3 - Integral factor	21949	s	
Heating3FrstSpv	Heating 3 frost setpoint	41995		
Heating3FrstSpvStBy	Standby setpoint htg 3	48713		
Heating3PreHtgX1	Heating 3, pre-heating - X1	46841		
Heating3PreHtgY1	Heating 3, pre-heating - Y1	34248		
Heating3PreHtgY2	Heating 3, pre-heating - Y2	46507		
HeatingCtrLoopKp	Heating 1 - Proportional factor	21801		
HeatingCtrLoopTD	Heating 1 - Differential factor	21803	s	
HeatingCtrLoopTI	Heating 1 - Integral factor	21802	s	
HeatingFrstSpv	Heating 1 frost protection setpoint	35635	°C	
HeatingFrstSpvStBy	Heating 1 frost protection setpoint stand-by	12781	°C	
HeatingPreHtgX1	Heating 1 Pre-heating - X1	23412	0 - 100%	
HeatingPreHtgX2	Heating 1 Pre-heating - X2	27415	°C	
HeatingPreHtgY1	Heating 1 Pre-heating - Y1	26693	°C	
HeatingPreHtgY2	Heating 1 Pre-heating - Y2	22566	0 - 100%	
HRDewpoint	Heat recovery dew point	67312	°C	
HRDewpointDz'	Heat recovery dew point dead zone	23404	°C	
HRecCtrLoopKp	Heat recovery - Proportional factor	21819		
HRecCtrLoopTD	Heat recovery - Differential factor	21821	s	
HRecCtrLoopTI	Heat recovery - Integral factor	21820	s	
HRecDamperCtrLoopKp	Mixing damper controller - Proportional factor	21822		
HRecDamperCtrLoopTD	Mixing damper controller - Differential factor	21824	s	
HRecDamperCtrLoopTI	Mixing damper controller - Integral factor	21823	s	
HrecDampRec	Heat recovery damper recovery value	21211	0-100%	
HrecDewPProtCtrLoopKp	Heat recovery frost protection pressure - Proportional factor	21834		
HrecDewPProtCtrLoopTD	Heat recovery frost protection pressure - Differential factor	21836	s	
HrecDewPProtCtrLoopTI	Heat recovery frost protection pressure - Integral factor	21835	s	
HrecDmpPosCtrlrPrVal	Mixing damper output signal	46606	0-100%	
HrecDmpPosHrecX1	Mixing - mixing damper - heat recovery X1	28958	0-100%	
HrecDmpPosHrecX2	Mixing - mixing damper - heat recovery X2	16765	0-100%	
HrecDmpPosHrecY1	Mixing - mixing damper - heat recovery Y1	16943	0-100%	
HrecDmpPosHrecY2	Mixing - mixing damper - heat recovery Y2	29260	0-100%	
HrecDmpPosQminOut	Mixing damper - Q min out	14531	l/s	
HrecDmpPosSplyX1	Mixing - outdoor damper X1	39790	0-100%	
HrecDmpPosSplyX2	Mixing - outdoor damper X2	43789	0-100%	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
HrecDmpPosSplyY1	Mixing - outdoor damper Y1	43103	0-100%	
HrecDmpPosSplyY2	Mixing - outdoor damper Y2	38972	0-100%	
HrecDmpPosStirupTm	Mixing damper - Start up time	48520	s	
HrecEffEff	Heat recovery efficiency	17247	0-100%	
HRecFrstCtrLoopKp	Heat recovery frost protection - Proportional factor	21831		
HRecFrstCtrLoopTD	Heat recovery frost protection - Differential factor	21833	s	
HRecFrstCtrLoopTI	Heat recovery frost protection - Integral factor	21832	s	
HRecFrstMinTm	Heat exchanger - Frost min time	15072	min	
HrecFrstSpv	Heat exchanger frost protection setpoint	51620	°C	
HRecMBPreHtg	Plate heat exchanger - Pre-heating	33748		
HRecMBRtHum	Plate heat exchanger - Return humidity	24981		
HRecMBRtTmp	PHE Return temperature	7889	°C	
HRecMBToa	PHE Outside temperature	30547	°C	
HRecPmpActiveHour	Heat exchanger pump - Operating hours	872	h	
HRecPrsFrstCtrLoopKp	Heat recovery frost protection pressure - Proportional factor	21828		
HRecPrsFrstCtrLoopTD	Heat recovery frost protection pressure - Differential factor	21830	s	
HRecPrsFrstCtrLoopTI	Heat recovery frost protection pressure - Integral factor	21829	s	
HrecPrsFrstSpv	Heat recovery frost setpoint st1	2152	°C	
HrecPrsFrstSpvStBy	Heat recovery frost setpoint st2	55606	°C	
HRExhDewPActv'	Heat recovery exhaust temperature dew point activated	50666	°C	
Htg1PmpActiveHour	Heating 1 pump - Operating hours	873	h	
Htg2PmpActiveHour	Heating 2 pump - Operating hours	874	h	
Htg3PmpActiveHour	Heating 3 pump - Operating hours	877	h	
Htg3VlvAuto	Heating 3 output signal-Auto mode P10	810	0-100%	
Htg3VlvValue	Heating 3 output signal-Manual HMI BMS	809	0-100%	
HtgPrValAuto	Heating1 output signal-Auto mode P10	804	0-100%	
HtgPrValValue	Heating1 output signal-Manual HMI BMS	803	0-100%	
HtgReClgCtrLoopKp	ReCooler heating controller - Proportional factor	21852		
HtgReClgCtrLoopTD	ReCooler heating controller - Differential factor	21854	s	
HtgReClgCtrLoopTI	ReCooler heating controller - Integral factor	21853	s	
HumFrcHtgAuto	Force heating output signal-Auto mode P10	814	0-100%	
HumFrcHtgCtrLoopKp	Force heating - Proportional factor	21954		
HumFrcHtgCtrLoopTD	Force heating - Differential factor	21956	s	
HumFrcHtgCtrLoopTI	Force heating - Integral factor	21955	s	
HumFrcHtgValue	Force heating output signal-Manual HMI BMS	813	0-100%	
HumidityCtrLoopKp	Humidification - Proportional factor	21936		
HumidityCtrLoopTD	Humidification - Differential factor	21938	s	
HumidityCtrLoopTI	Humidification - Integral factor	21937	s	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
HumMaxCtrlMaxSpv	Supply humidification max setpoint	644	0=Ok 1=Alarm	
(Pure room/extract control)	57438	%r.H. or g/kg depending on configuration		
HumMaxCtrlLoopKp	Humidification max - Proportional factor	21930		
HumMaxCtrlLoopTD	Humidification max - Differential factor	21932	s	
HumMaxCtrlLoopTI	Humidification max - Integral factor	21931	s	
HumSpvAbsCmpDeHumOutTmpX1	Dehumidification outdoor compensation curve - temperature X1 (abs)	62563	°C	
HumSpvAbsCmpDeHumOutTmpX2	Dehumidification outdoor compensation curve - temperature X2 (abs)	50176	°C	
HumSpvAbsCmpDeHumOutTmpX3	Dehumidification outdoor compensation curve - temperature X3 (abs)	54305	°C	
HumSpvAbsCmpDeHumOutTmpX4	Dehumidification outdoor compensation curve - temperature X4 (abs)	42182	°C	
HumSpvAbsCmpDeHumPrVal	Actual calculated dehumidification setpoint (abs.)	31702	g/kg	
HumSpvAbsCmpDeHumSpY1	Dehumidification outdoor compensation curve - setpoint Y1 (abs)	50286	g/kg	
HumSpvAbsCmpDeHumSpY2	Dehumidification outdoor compensation curve - setpoint Y2 (abs)	62477	g/kg	
HumSpvAbsCmpDeHumSpY3	Dehumidification outdoor compensation curve - setpoint Y3 (abs)	58412	g/kg	
HumSpvAbsCmpDeHumSpY4	Dehumidification outdoor compensation curve - setpoint Y4 (abs)	38091	g/kg	
HumSpvAbsCmpHumOutTmpX1	Humidification outdoor compensation curve - temperature X1 (abs)	41780	°C	
HumSpvAbsCmpHumOutTmpX2	Humidification outdoor compensation curve - temperature X2 (abs)	37719	°C	
HumSpvAbsCmpHumOutTmpX3	Humidification outdoor compensation curve - temperature X3 (abs)	33654	°C	
HumSpvAbsCmpHumOutTmpX4	Humidification outdoor compensation curve - temperature X4 (abs)	62353	°C	
HumSpvAbsCmpHumPrVal	Actual calculated humidification setpoint (abs.)	4907	g/kg	
HumSpvAbsCmpHumSpY1	Humidification outdoor compensation curve - setpoint Y1 (abs)	40157	g/kg	
HumSpvAbsCmpHumSpY2	Humidification outdoor compensation curve - setpoint Y2 (abs)	44222	g/kg	
HumSpvAbsCmpHumSpY3	Humidification outdoor compensation curve - setpoint Y3 (abs)	48287	g/kg	
HumSpvAbsCmpHumSpY4	Humidification outdoor compensation curve - setpoint Y4 (abs)	52344	g/kg	
HumSpvAbsDz	Absolute humidity - Neutral zone	61029	%r.H. or g/kg depending on configuration	
HumSpvAbsSpv	Absolute humidity - Setpoint	20105	%r.H. or g/kg depending on configuration	
HumSpvAbsSpvDehum	Absolute humidity - Dehumidification setpoint	62747	%r.H. or g/kg depending on configuration	
HumSpvAbsSpvHum	Absolute humidity - Humidification setpoint	22791	%r.H. or g/kg depending on configuration	

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
HumSpvRelCmpDeHumOutTmpX1	Dehumidification outdoor compensation curve - temperature X1 (rel)	1776	°C	
HumSpvRelCmpDeHumOutTmpX2	Dehumidification outdoor compensation curve - temperature X2 (rel)	13971	°C	
HumSpvRelCmpDeHumOutTmpX3	Dehumidification outdoor compensation curve - temperature X3 (rel)	9906	°C	
HumSpvRelCmpDeHumOutTmpX4	Dehumidification outdoor compensation curve - temperature X4 (rel)	22101	°C	
HumSpvRelCmpDeHumPrVal	Actual calculated dehumidification setpoint (rel.)	41445	%r.H.	
HumSpvRelCmpDeHumSpY1	Dehumidification outdoor compensation curve - setpoint Y1 (rel)	37518	%r.H.	
HumSpvRelCmpDeHumSpY2	Dehumidification outdoor compensation curve - setpoint Y2 (rel)	41709	%r.H.	
HumSpvRelCmpDeHumSpY3	Dehumidification outdoor compensation curve - setpoint Y3 (rel)	45772	%r.H.	
HumSpvRelCmpDeHumSpY4	Dehumidification outdoor compensation curve - setpoint Y4 (rel)	49707	%r.H.	
HumSpvRelCmpHumOutTmpX1	Humidification outdoor compensation curve - temperature X1 (rel)	64003	°C	
HumSpvRelCmpHumOutTmpX2	Humidification outdoor compensation curve - temperature X2 (rel)	51808	°C	
HumSpvRelCmpHumOutTmpX3	Humidification outdoor compensation curve - temperature X3 (rel)	55873	°C	
HumSpvRelCmpHumOutTmpX4	Humidification outdoor compensation curve - temperature X4 (rel)	43686	°C	
HumSpvRelCmpHumPrVal	Actual calculated humidification setpoint (rel.)	64865	%r.H.	
HumSpvRelCmpHumSpY1	Humidification outdoor compensation curve - setpoint Y1 (rel)	38546	%r.H.	
HumSpvRelCmpHumSpY2	Humidification outdoor compensation curve - setpoint Y2 (rel)	42737	%r.H.	
HumSpvRelCmpHumSpY3	Humidification outdoor compensation curve - setpoint Y3 (rel)	46800	%r.H.	
HumSpvRelCmpHumSpY4	Humidification outdoor compensation curve - setpoint Y4 (rel)	50743	%r.H.	
HumSpvRelDz	Relative humidity - Neutral zone	37532	%r.H. or g/kg depending on configuration	
HumSpvRelSpv	Relative humidity - Setpoint	2194	%r.H. or g/kg depending on configuration	
HumSpvRelSpvDehum	Relative humidity - Dehumidification setpoint	11342	%r.H. or g/kg depending on configuration	
HumSpvRelSpvHum	Relative humidity - Humidification setpoint	10627	%r.H. or g/kg depending on configuration	
MinV1CircReCooler	ReCooler - Minimum value 1 circuit	24572	0-100%	
MinV2CircReCooler	ReCooler - Minimum value 2 circuits	45358	0-100%	
MinV3CircReCooler	ReCooler - Minimum value 3 circuits	7039	0-100%	
NightCoolMinOutTmp	Night free cooling - Min outdoor temperature	4465	°C	
NightCoolOnDiff	Night free cooling - Delta	1475	°C	
NightCoolRmHys	Night free cooling - Hysteresis	17755	°C	
NightCoolRmSpv	Night free cooling room setpoint	7412	°C	
OutDewpoint	Outdoor air dew point	56045	°C	
OutEnth	Outdoor air enthalpy	57226	kJ/kg	

ANALOG VALUE

OutHumAbs	Outdoor air humidity absolute	16390	g/kg	
OutHumCOM	Outdoor air relative humidity - Value comm.	1887	0 - 100 %r.H.	
OutTmpCOM	Outdoor air temperature - Value comm.	1882	°C	
OutTmpWallCOM	Outdoor temperature wall sensor - Value comm.	1883	°C	
PreElHtgFanLmtArea	Area, electrical pre-heater	6439	m ²	
PreElHtgFanLmtKfactor	K-factor, electrical pre-heater	22371	0-100%	
PreElHtgFanLmtPrVal	Power reduction, electrical pre-heater	15308	0-100%	
PreElHtgFanLmtv	v, Flow over heater, electrical pre-heater	36755	m/s	
PreElHtgFanLmtvMax	vMax, air speed, electrical pre-heater	49835	m/s	
PreElHtgFanLmtvMin	vMin, air speed, electrical pre-heater	14837	m/s	
PreHeatingCtrLoopKp	Pre-heater - Proportional factor	21945		
PreHeatingCtrLoopTD	Pre-heating - Differential factor	21947	s	
PreHeatingCtrLoopTI	Pre-heating - Integral factor	21946	s	
PreHeatingFrstSpv	Pre-heater frost setpoint	34181	°C	
PreHeatingFrstSpvStBy	Pre-heater standby setpoint	57320	°C	
PreHeatingPreHtgX1	Pre-heater outdoor temperature X1	3258	°C	
PreHeatingPreHtgX2	Pre-heater outdoor temperature X2	15577	°C	
PreHeatingPreHtgY1	Pre-heater pos Y1	16267	0-100%	
PreHeatingPreHtgY2	Pre-heater pos Y2	4072	0-100%	
PreHtgPmpActiveHour	Pre-heater pump - Operating hours	879	h	
PreHtgPrValAuto	Pre-heater output signal-Auto mode P10	808	0-100%	
PreHtgPrValValue	Pre-heater output signal-Manual HMI BMS	807	0-100%	
PreHtgSpv	Pre-heater setpoint	6627	°C	
RecDampminFrshAir	Mixing damper - Min fresh air	1577	0 - 100%	
RmEnth	Room enthalpy	61369	kJ/kg	
RmHumAbs	Room humidity absolute	17315	g/kg	
RmHumDevAlmMaxDev	Max deviation room hum	39703	%r.H.	
RoomHumCOM	Room relative humidity - Value comm.	1888	0 - 100 %r.H.	
RoomTmp2COM	Room temperature 2 - Value comm.	1881	°C	
RoomTmpCOM	Room temperature - Value comm.	1880	°C	
RtClcT	Calculated temperature	7266	°C	
RtClgAuto	Extract air cooling output signal-Auto mode P10	816	0-100%	
RtClgValue	Extract air cooling output signal-Manual HMI BMS	815	0-100%	
RtEnth	Extract air enthalpy	17311	kJ/kg	
RtHumAbs	Extract air humidity (absolute)	24340	g/kg	
RtRmTmpDevAlmMaxDev	Extract/Room temperature - Maximum deviation	61586	°C	
RtTwb	Wetbulb temp	32099	°C	
SFP	The current SFP value of the unit	52945	kW/(m ³ /s)	
SlaveOffset	Slave offset	24823	l/s	
SplyEnth	Supply air enthalpy	29558	kJ/kg	
SplyExtraFitPreAlm	Supply air extra filter 1 Pre-alarm	48318	0=Ok	
1=Alarm				
SplyFanActiveHour	Supply fan - Operating hours	870	h	
SplyFanActSpv	Actual supply fan setpoint	46589	l/s	
SplyFanActVal	Actual sply fan value	56628		
SplyFanCurrent	Danfoss / OJ-DV Supply fan current	15012	A	
SplyFanCurvePrVal	Actual calculated supply fan setpoint	10903		

ANALOG VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
SplyFanDevAlmMaxDev	Supply fan - Maximum deviation (flow control)	57203	%, Pa or l/s depending on configuration	
SplyFanDevAlmMaxDevPrs	Supply fan - Maximum deviation (pressure control)	27310	Pa	
SplyFanDevAlmMinLmt	Supply fan - Minimum limit (flow control)	57642		
SplyFanDevAlmMinLmtPrs	Supply fan - Minimum limit (pressure control)	45	Pa	
SplyFanEnergy	Danfoss Supply fan Energy	30980	kWh	
SplyFanKP_Flw	Supply fan controller (flow control) - Proportional factor	38592		
SplyFanKP_Prs	Supply fan controller - Proportional factor (pressure control)	2043		
SplyFanMotorVolt	Danfoss / OJ-DV Supply fan motor voltage	15375	V	
SplyFanOpDays	Danfoss / OJ-DV Supply fan - Operating days	60939	days	
SplyFanOpHrs	Danfoss / OJ-DV Supply fan - Operating hours	40024	h	
SplyFanOpMinutes	Danfoss / OJ-DV Supply fan - Operating minutes	48048	Min	
SplyFanOutFreq	Danfoss / OJ-DV Supply fan frequency	2558	Hz	
SplyFanPower	Danfoss / OJ-DV Supply fan power	20963	kW	
SplyFanPrcOut	Danfoss / OJ-DV Supply fan output signal	47905	0-100%	
SplyFanSpeed	Danfoss / OJ-DV Supply fan speed	12172	Rpm	
SplyFanSpvMaxForce	Supply fan max force setpoint	25092	%, Pa or l/s depending on configuration	
SplyFanSpvSt1Spv	Supply fan step 1 setpoint	52572	%, Pa or l/s depending on configuration	
SplyFanSpvSt2Spv	Supply fan step 2 setpoint	22144	%, Pa or l/s depending on configuration	
SplyFanSpvSt3Spv	Supply fan step 3 setpoint	8244	%, Pa or l/s depending on configuration	
SplyFanTD_Flw	Supply fan controller (flow control) - Differential factor	9781	s	
SplyFanTD_Prs	Supply fan controller - Differential factor (pressure control)	46862	s	
SplyFanTI_Flw	Supply fan controller (flow control) - Integral factor	8115	s	
SplyFanTI_Prs	Supply fan controller - Integral factor (pressure control)	36488	s	
SplyFanToaCurveOutTX1	Supply fan outdoor compensation curve - temperature X1	41824	°C	
SplyFanToaCurveOutTX2	Supply fan outdoor compensation curve - temperature X2	37635	°C	
SplyFanToaCurveOutTX3	Supply fan outdoor compensation curve - temperature X3	33570	°C	
SplyFanToaCurveOutTX4	Supply fan outdoor compensation curve - temperature X4	62405	°C	
SplyFanToaCurveSpY1	Supply fan outdoor compensation curve - setpoint Y1	41763	0-100%	
SplyFanToaCurveSpY2	Supply fan outdoor compensation curve - setpoint Y2	37696	0-100%	
SplyFanToaCurveSpY3	Supply fan outdoor compensation curve - setpoint Y3	33633	0-100%	
SplyFanToaCurveSpY4	Supply fan outdoor compensation curve - setpoint Y4	62342	0-100%	
SplyFilterPreAlm	Outdoor air filter Pre-alarm	32127	Pa	
SplyHumAbs	Supply air humidity absolute	13958	g/kg	
SplyHumDevAlmMaxDev	Max deviation supply hum	22230	g/kg %r.H. or g/kg depending on configuration	

BINARY INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AuxAlm	Auxiliary alarm	22605	0=0k 1=Alarm	
AuxInp	Auxiliary input	21522	0=0 1=1	
Clg3PmpAlm	Cooling 3 pump alarm	24467	0=0k 1=Alarm	
ClgAlm	Cooling 1 DX alarm	45154	0=0k 1=Alarm	
ClgPmpAlm	Cooling 1 pump alarm	40242	0=0k 1=Alarm	
Cooling3PmpCmdFBFbVal	Cooling 3 pump feedback	47934	0=0k 1=Alarm	
CoolingFBFbVal	Cooling 1 DX feedback	43526	0=0k 1=Alarm	
CoolingPmpCmdFBFbVal	Cooling 1 pump feedback	51912	0=0k 1=Alarm	
DamperExhFBFbVal	Exhaust air damper feedback	27338	0=0k 1=Alarm	
DamperSplyFBFbVal	Outdoor air damper feedback	6336	0=0k 1=Alarm	
ElHtgAlm	Electrical Heating 1 alarm	4964	0=0k 1=Alarm	
EmergencyStop	Emergency stop input	9864	0=Off 1=On	
EmergencyStopCOM	Emergency Stop input - Value comm.	1897	0=Off 1=On	
ExhFanAlm	Exhaust fan alarm	55865	0=0k 1=Alarm	
ExhFanFBFbVal	Exhaust fan feedback	32844	0=0k 1=Alarm	
ExhFilterAlm	Extract filter alarm	45320	0=0k 1=Alarm	
ExhPreFilterAlm	Extract pre-filter DI alarm	8711	0=0k 1=Alarm	
ExtAlm1COM	External alarm 1 - Value comm.	1903	0=0k 1=Alarm	
ExtAlm2COM	External alarm 2 - Value comm.	1904	0=0k 1=Alarm	
ExtCtrl1	External control input 1	11643	0=Off 1=On	
ExtCtrl1COM	External control input 1 - Value comm.	1895	0=Off 1=On	
ExtCtrl2	External control input 2	7448	0=Off 1=On	
ExtCtrl2COM	External control input 2 - Value comm.	1896	0=Off 1=On	
ExtraClgAlm	Cooling 2 DX alarm	48824	0=0k 1=Alarm	
ExtraClgFBFbVal	Cooling 2 DX feedback	47898	0=0k 1=Alarm	
ExtraClgPmpAlm	Cooling 2 pump alarm	31967	0=0k 1=Alarm	
ExtraClgPmpCmdFBFbVal	Cooling 2 pump feedback	54719	0=0k 1=Alarm	
ExtraElHtgAlm	Electrical Heating 2 alarm	23132	0=0k 1=Alarm	
ExtraFrstDtctr	Heating 2 frost monitor	34361	0=0k 1=Alarm	

BINARY INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExtraHtgPmpAlm	Heating 2 pump alarm	23306	0=0k 1=Alarm	
ExtraHtgPmpCmdFBFbVal	Heating 2 pump feedback	13329	0=0k 1=Alarm	
FanAlm	Fan alarm	8558	0=0k 1=Alarm	
FilterAlm	Filter alarm	13699	0=0k 1=Alarm	
FireAlm	Fire alarm alarm	28514	0=0k 1=Alarm	
FireAlm2	Fire alarm 2 alarm	59736	0=0k 1=Alarm	
FireAlm2COM	Fire alarm input 2 - Value comm.	1901	0=0k 1=Alarm	
FireAlm3	Fire alarm 3 alarm	63865	0=0k 1=Alarm	
FireAlm3COM	Fire alarm input 3 - Value comm.	1902	0=0k 1=Alarm	
FireAlmCOM	Fire alarm - Value comm.	1900	0=0k 1=Alarm	
FireDamper1FdbkClsd	Fire damper closed	53169	0=0k 1=Alarm	
FireDamper1FdbkOpn	Fire damper opened	3118	0=0k 1=Alarm	
FireDamper1NoMove	Fire damper no move	44469	0=0k 1=Alarm	
FireDamper2FdbkClsd	Fire damper 2 closed	5685	0=0k 1=Alarm	
FireDamper2FdbkOpn	Fire damper 2 opened	2231		
FireDamper2NoMove	Fire damper 2 no move	7990		
Heating3PmpCmdFBFbVal	Heating 3 pump feedback	64454		
HeatingPmpCmdFBFbVal	Heating 1 pump feedback	15639		
HRecAlm	Heat recovery alarm	62931	0=0k 1=Alarm	
HRecFdbkAlm	Heat exchanger feedback alarm	61487	0=0k 1=Alarm	
HRecFrstDtctr	Heat recovery frost monitor	31092	0=0k 1=Alarm	
HRecPmpAlm	Heat recovery pump alarm	18003	0=0k 1=Alarm	
HrecPmpCmdFBFbVal	Heat recovery pump feedback	34557	0=0k 1=Alarm	
Htg3FrstDtctr	Heating 3 frost monitor	13429	0=0k 1=Alarm	
Htg3PmpAlm	Heating 3 pump alarm	56854	0=0k 1=Alarm	
HtgFrstDtctr	Heating 1 frost monitor	21294	0=0k 1=Alarm	
HtgPmpAlm	Heating 1 pump alarm	47847	0=0k 1=Alarm	
HumidityCtrlCmdFBFbVal	Humidifier feedback	14608	0=0k 1=Alarm	
HumidityCtrlPmpCmdFB-FbVal	Humidifier pump feedback	24144	0=0k 1=Alarm	

BINARY INPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
HumPmpAlm	Humidifier pump alarm	3706	0=Ok 1=Alarm	
PreElHtgAlm	Electrical pre-heater alarm	57484	0=Ok 1=Alarm	
PreHeatingPmpCmdFBFbVal	Pre-heater pump feedback	31186	0=OK 1=No Fdbk	
PreHtgFrstDtctr	Pre-heater frost monitor	24111	0=Ok 1=Alarm	
PreHtgPmpAlm	Pre-heater pump alarm	36251	0=Ok 1=Alarm	
RtHumAlm	Extract air humidity (cooling)	36836	0=Ok 1=Alarm	
SplyFanAlm	Supply fan alarm	28757	0=Ok 1=Alarm	
SplyFanFBFbVal	Supply fan feedback alarm	64102	0=Ok 1=Alarm	
SplyFilterAlm	Outdoor filter alarm	34066	0=Ok 1=Alarm	
SplyPreFilterAlm	Outdoor pre-filter DI alarm	55258	0=Ok 1=Alarm	
SuWiSwTch	Summer/Winter changeover input	26679	0=Winter 1=Summer	
SuWiSwTchCOM	Summer/Winter changeover input - Value comm.	1898	0=Winter 1=Summer	

BINARY OUTPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AlmOutHigh	Alarm output 1	5714	0=Normal 1=Alarm	
AlmOutLow	Alarm output 2	8035	0=Normal 1=Alarm	
AuxOpModeInd	Auxiliary operation mode output	5163	0=Off 1=On	
AuxTspOutput	Auxiliary time switch program output	22528	0=Off 1=On	
Cooling3PmpCmdOnOff	Cooling 3 pump cmd	53375	0=Off 1=On	
CoolingPmpCmdOnOff	Cooling pump command	10276	0=Off 1=On	
DamperExhOnOff	Exhaust air damper command	43251	0=Off 1=On	
DamperSplyOnOff	Outdoor air damper command	6170	0=Off 1=On	
ExhFanCmdOnOff	Exhaust fan cmd	9054	0=Off 1=On	
ExtraClgPmpCmdOnOff	Cooling 2 pump command	63601	0=Off 1=On	
ExtraHtgCmdStOnOff	Heating 2 EI cmd	29000	0=Off 1=On	
ExtraHtgPmpCmdOnOff	Heating 2 pump command	31944	0=Off 1=On	
FireDamper1Cmd	Fire damper command	12328	0=Off 1=On	
FireDamper2Cmd	Fire damper 2 cmd	64011	0=Off 1=On	
Heating3PmpCmdOnOff	Heating 3 pump cmd	60543	0=Off 1=On	
HeatingCmdStOnOff	Htg1 EI cmd	63332	0=Off 1=On	
HeatingPmpCmdOnOff	Heating 1 pump command	10264	0=Off 1=On	
HrecOnOff	Heat recovery on/off	3016	0=Off 1=On	
HrecPmpCmdOnOff	Heat recovery (pump) command	59969	0=Off 1=On	
HumForceHtgOnOff	Force heating Cmd	9278	0=Off 1=On	
HumidityCtrlCmdOnOff	Humidifier command	18044	0=Off 1=On	
HumidityCtrlPmpCmdOnOff	Humidifier pump command	49625	0=Off 1=On	
PreHeatingCmdStOnOff	Htg1 EI cmd	22734	0=Off 1=On	
PreHeatingPmpCmdOnOff	Pre-heater pump cmd	12792	0=Off 1=On	
SplyFanCmdOnOff	Supply fan cmd	16868	0=Off 1=On	

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ActvClgRecPrVal	Cooling recovery	20016	0=Passive 1=Active	
BlkClgRecPrVal	Block cooling recovery	27019	0=Inactive 1=Active	
BlkHtgRecPrVal	Block heat recovery	32783	0=Inactive 1=Active	
CalibrationAlm	Calibration alarm	12464	0=Ok 1=Alarm	
CgEm24ModbusAlm	CG-EM24 com alarm	49897	0=Ok 1=Alarm	
CommTest	Communication test pulse	60516	0=0 1=1	
DefrostActvReCooler	ReCooler - Defrosting activated	9543	0=Inactive 1=Active	
DewPCtrlAct	Dewpoint control activated	3269	0=Off 1=On	
EconetAlm	Econet alarm	48629	0=Ok 1=Alarm	
EconetModbusAlm	Econet com alarm	14622	0=Ok 1=Alarm	
EnFanClgPrVal	Activate	25633	0=Passive 1=Active	
EnFanHtgPrVal	Activate	17396	0=Passive 1=Active	
ExhFanBrkChopFltWarn	OJ-DV exhaust fan break chopper fault warning	19549	0=Ok 1=Alarm	
ExhFanComErMOCAIm	OJ-DV exhaust fan com. error MOC alarm	45653	0=Ok 1=Alarm	
ExhFanDevAlmAlm	Exh fan deviation	31724	0=Passive 1=Active	
ExhFanDevInAlarm	Exhaust fan deviation - Alarm	851	0=Passive 1=Active	
ExhFanEEPromWarn	OJ-DV exhaust fan EEPROM error warning	42595	0=Ok 1=Alarm	
ExhFanExt24VOverload	OJ-DV exhaust fan ext.24V supply overload	20714	0=Ok 1=Alarm	
ExhFanIHlAlm	OJ-DV exhaust fan I HI alarm	35044	0=Ok 1=Alarm	
ExhFanInpPhaseWarn	OJ-DV exhaust fan input phase error	48716	0=Ok 1=Alarm	
ExhFanIntHWAIm	OJ-DV exhaust fan internal HW fault alarm	12014	0=Ok 1=Alarm	
ExhFanIntStopAlm	OJ-DV exhaust fan internal stop alarm	11735	0=Ok 1=Alarm	
ExhFanLimitWarn	OJ-DV exhaust fan limit warning	61771	0=Ok 1=Alarm	
ExhFanModbusAlm	Exhaust fan com alarm	2305	0=Ok 1=Alarm	
ExhFanMotorPhaseAlm	OJ-DV exhaust fan motor phase error alarm	28131	0=Ok 1=Alarm	
ExhFanRotBlkWarn	OJ-DV exhaust fan rotor blocked error	18566	0=Ok 1=Alarm	
ExhFanRotDirAlm	OJ-DV exhaust fan rotor direction alarm	3591	0=Ok 1=Alarm	
ExhFanTmpHiWarn	OJ-DV exhaust fan temperature high warning	3294	0=Ok 1=Alarm	

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExhFanWarn	OJ-DV exhaust fan warning	34793	0=Ok 1=Alarm	
ExhFanVHiAlm	OJ-DV exhaust fan V HI alarm	22371	0=Ok 1=Alarm	
ExhFanVLoAlm	OJ-DV exhaust fan V LO alarm	63996	0=Ok 1=Alarm	
ExhFanVRippleWarn	OJ-DV exhaust fan V ripple warning	49301	0=Ok 1=Alarm	
FanOpHrsAlm	Fan operating hours alarm	36120	0=Ok 1=Alarm	
HRecMBDefrost	Plate heat exchanger - Defrost	47413	0=Off 1=On	
HRecMBGT3Alm	Plate heat exchanger - GT3 Alarm	29571	0=Ok 1=Alarm	
HRecMBLiveBitAlm	Plate heat exchanger - LiveBit Alarm	38576	0=Ok 1=Alarm	
HRecMBOvrHtg	Plate heat exchanger - Overheating	40927	0=Ok 1=Alarm	
HRecMBPrsSwi	Plate heat exchanger - Prs-switch	47333	0=Off 1=On	
HRecMBSaAlm	Plate heat exchanger - S-Alarm	19292	0=Ok 1=Alarm	
HRecModbusAlm	Heat exchanger com alarm	11442	0=Ok 1=Alarm	
Htg1ModbusAlm	MB-Htg1 Alm	18571	0=Ok 1=Alarm	
Htg2ModbusAlm	MB-Htg2 Alm	54103	0=Ok 1=Alarm	
Htg3ModbusAlm	MB-Heating 3 alarm	42467	0=Ok 1=Alarm	
ManualMode	Manual mode	24032	0=Auto 1=Manual	
MBCommAlm	Modbus communication alarm	57614	0=Ok 1=Alarm	
PreHtgModbusAlm	MB-Pre-heater alarm	668	0=Ok 1=Alarm	
ReCoolerCirc1Alm	ReCooler circuit 1 alarm	57971	0=Ok 1=Alarm	
ReCoolerCirc2Alm	ReCooler circuit 2 alarm	31151	0=Ok 1=Alarm	
ReCoolerCirc3Alm	ReCooler circuit 3 alarm	3867	0=Ok 1=Alarm	
ReCoolerCompAlm	ReCooler compressor alarm	43898	0=Ok 1=Alarm	
ReCoolerDiffPrsAlm	ReCooler diff.pressure alarm	22662	0=Ok 1=Alarm	
ReCoolerDischaPrbAlm	ReCooler discharge probe error alarm	23528	0=Ok 1=Alarm	
ReCoolerDischaTmpAlm	ReCooler discharge temp alarm	51749	0=Ok 1=Alarm	
ReCoolerEEVAlm	ReCooler EEV error alarm	14095	0=Ok 1=Alarm	
ReCoolerHighEnvlAlm	ReCooler high envelope alarm	58255	0=Ok 1=Alarm	
ReCoolerLowEnvlAlm	ReCooler low envelope alarm	27958	0=Ok 1=Alarm	

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ReCoolerLowSupHeatAlm	ReCooler low super heat alarm	51788	0=0k 1=Alarm	
ReCoolerMaxPrsAlm	ReCooler max pressure alarm	42357	0=0k 1=Alarm	
ReCoolerMinPrsAlm	ReCooler min pressure alarm	11761	0=0k 1=Alarm	
ReCoolerRotorAlm	ReCooler rotor alarm	51899	0=0k 1=Alarm	
ReCoolerSucPrbAlm	ReCooler suction probe error alarm	42594	0=0k 1=Alarm	
ReCoolerVFDAlm	ReCooler VFD alarm	64374	0=Off 1=On	
ReCoolerVFDOffLineAlm	ReCooler VFD offline alarm	56902	0=0k 1=Alarm	
RevClgModbusAlm	ReCooler alarm	5243	0=0k 1=Alarm	
RmHumDevAlmAlm	Room air humidity deviation	21718	0=Passive 1=Active	
RtHumModbusAlm	MB-Extract humidity (cooling)	46256	0=0k 1=Alarm	
RtRmTmpDevAlmAlm	Extract/Room air temperature deviation	7373	0=Passive 1=Active	
RtTmpFireAlm	Extract air temperature fire alarm	4286	0=0k 1=Alarm	
SplyFanBrkChopFltWarn	OJ-DV supply fan break chopper fault warning	20345	0=0k 1=Alarm	
SplyFanComErMOCAlm	OJ-DV supply fan com. error MOC alarm	30320	0=0k 1=Alarm	
SplyFanDevAlmAlm	Supply fan deviation	6486	0=Passive 1=Active	
SplyFanDevInAlarm	Supply fan deviation - Alarm	850	0=0k 1=Alarm	
SplyFanEEPromWarn	OJ-DV supply fan EEPROM error warning	11239	0=0k 1=Alarm	
SplyFanExt24VOverload	OJ-DV supply fan ext.24V supply overload	21454	0=0k 1=Alarm	
SplyFanIHlAlm	OJ-DV supply fan I HI alarm	59998	0=0k 1=Alarm	
SplyFanInpPhaseWarn	OJ-DV supply fan input phase error	644	0=0k 1=Alarm	
SplyFanIntHWAIm	OJ-DV supply fan internal HW fault alarm	17719	0=0k 1=Alarm	
SplyFanIntStopAlm	OJ-DV supply fan internal stop alarm	41043	0=0k 1=Alarm	
SplyFanLimitWarn	OJ-DV supply fan limit warning	62854	0=0k 1=Alarm	
SplyFanModbusAlm	Supply fan com alarm	45899	0=0k 1=Alarm	
SplyFanMotorPhaseAlm	OJ-DV supply fan motor phase error alarm	50100	0=0k 1=Alarm	
SplyFanRotBlkWarn	OJ-DV supply fan rotor blocked error	50434	0=0k 1=Alarm	
SplyFanRotDirAlm	OJ-DV supply fan rotor direction alarm	2762	0=0k 1=Alarm	
SplyFanTmpHiWarn	OJ-DV supply fan temperature high warning	2067	0=0k 1=Alarm	

BINARY VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
SplyFanWarn	OJ-DV supply fan warning	64963	0=Ok 1=Alarm	
SplyFanVHiAlm	OJ-DV supply fan V HI alarm	13785	0=Ok 1=Alarm	
SplyFanVLoAlm	OJ-DV supply fan V LO alarm	39750	0=Ok 1=Alarm	
SplyFanVRippleWarn	OJ-DV supply fan V ripple warning	1200	0=Ok 1=Alarm	
SplyHumDevAlmAlm	Supply air humidity deviation	57113	0=Passive 1=Active	
SplyTmpDevAlmAlm	Supply air temperature deviation	38175	0=Passive 1=Active	
SplyTmpFireAlm	Supply air temperature fire alarm	44098	0=Ok 1=Alarm	
TWCtrlr	Twin Wheel controller alarm	9042	0=Ok 1=Alarm	
ZoneCtrlr	Zone controller	61922	0=Ok 1=Alarm	

MULTI STATE OUTPUT

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CoolingCmdDxSt	Cooling DX command	30094	0=Auto 1=Off 2=St1 3=St2 4=St3	
ExtraClgCmdDxSt	Cooling 2 DX command	27550	0=Auto 1=Off 2=St1 3=St2 4=St3	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
AckAlmPls	Alarm acknowledge	39130	0=Off 1=On	
ActCtrlMode	Actual temperature control mode	28561	0=Room 1=Return 2=Supply	
ActCtrlModeHum	Actual humidification control mode	25131	0=Room 1=Return 2=Supply	
ActFanStep	Actual fan step	28279	0=Off 1=Stage1 2=Stage2 3=Stage3	
ActOpMode	Actual operating mode	6080	0=Off 1=On/Comfort 2=Economy 3=Na 4=Osstp 5=Nightcooling 6=Unoccupied (Temperature start) 7=Nightkick (Test temperature) 8=Firedamper test 9=Fire 10=Stop 11=Overrun 12=Startup	
ActOpSta	Actual operation status	32321	0=Nu 1=Configuration error 2=SUF 3=Fire alarm activated 4=MsgCl0 5=Emergency Stop 6=MsgCl1 7=Fire damper test activated 8=Manual operation 9=ExtC 10=BMS 11=Time scheduling program 12=Boost 13=Night heating/Night cooling	
ActvClgRecKval	Activate cooling recovery - KVal	19801	0=Lower 1=Higher	
AdvHumFnct	Advanced humidification function	22887	0=No 1=Yes	
AlmCl0	Alarm class Danger alarm (A) status	46769	0=Normal 1=Alarm	
AlmCl1	Alarm class Critical alarm (A) status	42640	0=Normal 1=Alarm	
AlmCl2	Alarm class Low alarm (B) status	38643	0=Normal 1=Alarm	
AlmCl3	Alarm class Warning alarm (C) status	34514	0=Normal 1=Alarm	
AuxiliaryBmsTimeAux-Swtch	Aux BMS TSP output	48172	0=Auto 1=Off 2=On	
AuxiliaryTspCopy-AuxPls	AuxiliaryTspCopyAux.PlS	44050	0=Auto 1=Off 2=On	
BlkClgRecKval	Block cooling recovery - KVal	39893	0=Lower 1=Higher	
BlkHtgRecKval	Block heat recovery - KVal	40828	0=Lower 1=Higher	
BlockDHum	Dew point blocks dehumidification	2103	0=No 1=Yes	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
CG_EM24_1ResetParPls	Energy meter reset partial	53050	0=Passive 1=Active	
ClgStartBMS	Cooling 1 start BMS	13545	0=Off 1=On	
CommTestEn	Enable communication test	1708	0=No 1=Yes	
CounterFlowExchOffsetBoost	Counter flow heat exchanger - Offset boost	3329	0=Low Boost 1=Normal Boost 2=High Boost	
Damper	Damper function	41930	0=No 1=Combined 2=Outside 3=Outside+Exhaust	
DensityCorr	Density compensation	50593	0=No 1=ExhFlow 2=ExhFlow+SplyFlow	
DewPSwch	Dewpoint control switch	48718	0=H-Recov. 1=Pre Htg.	
DmpModbusAlm	Modbus damper	56633	0=Auto 1=Normal 2=adr150 (Outdoor air damper 1) 3=adr151 (Outdoor air damper 2) 4=adr152 (Exhaust air damper 1) 5=adr153 (Exhaust air damper 2) 6=adr154 (Extract air damper 1) 7=adr155 (Extract air damper 2) 8=adr156 (Mixing/Recirculation air damper 1) 9=adr157 (Mixing/Recirculation air damper 2) 10=adr158 (Plate by-pass damper) 11=adr159 (Extra supply air VVX damper 1) 12=adr160 (Extra supply air VVX damper 2) 13=adr161 (Supply air damper 1) 14=adr162 (Supply air damper 2) 15=adr163 (Extra extract air VVX damper 1) 16=adr164 (Extra extract air VVX damper 2) 17=adr165 (Fire by-pass damper 1) 18=adr166 (Fire by-pass damper 2)	
DPTSnsrModbusAlm	DPT sensor com alarm	30051	0=Ok 1=Alarm	
EconetActOpMode	Econet operation mode	50595	0=Stop 1=Alarm 2=Idle 3=Startup 4=Heatrec 5=Cooling 6=Coolrec 7=Manual	
EnFanClgKVal	Function < - >	32613	0=Lower 1=Higher	
EnFanHtgKVal	Function < - >	3356	0=Lower 1=Higher	
ExhEngUnit	Exhaust fan engineering unit	43819	0=% 1=Pa 2=l/s 3=m³/h	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExhFanActAlm	Exhaust fan alarm	18848	0=Nu 1=M0vrVlt. 2=MUndrVlt. 3=DClinkUndrVlt 4=DClinkOvrVlt 5=IntElectr 6=Locked 7=HallSnsr 8=Ovrh	
ExhFanActWarn	Exhaust fan warning	39335	0=Nu 1=OpenCircuitInp 2=ActSpdLowLlim 3=BrkOp 4=DClinkVlt 5=ElectrTmp 6=MtrTmp 7=OutpStgTmp 8=Mes	
ExhFanExtSetPFnct	Exhaust fan external setpoint function	56664	0=Relative 1=Absolute	
ExhFanPrsCtrlMode	Exhaust fan pressure control	30666	0=Inactive 1=Step 2=Linear	
ExhSnsr	Exhaust air temperature	64292	0=No 1=One 2=Two	
ExtControlActMode	Actual operation mode external control	30799	0=Auto 1=Off 2=Stage1 3=Stage2 4=Stage3	
ExtControlStep	External control fan step	28852	0=Auto 1=Off 2=1Step 3=2Step 4=3Step	
ExtractFan	ExhFan	42910	0=No 1=Yes 2=Combined	
ExtraHtgPreHtgactv	Pre htg 2 state	24454		
FanControlMode	Fan control mode	46124	0=Passive 1=Active	
FanExtSetPFnct	Fan external setpoint function	314	0=Relative 1=Absolute	
FanExtSp	Fan external setpoint	60264	0=No 1=Supply 2=Exhaust 3=Sply 4=Exh	
FireDamper1Operation	Fire damper 1 mode	9703	1=OK 2=Test 3=Alarm	
FireDamper1State	Fire damper state	24347	0=NotDefined 1=Closed 2=Moving 3=Opened	
FireDamper1TestStrtH-MIPs	Fire damper test	64867	0=Passive 1=Active	
FireDamper2Operation	Fire damper 2 mode	64435	1=OK 2=Test 3=Alarm	
FireDamper2State	Fire damper 2 state	45701	0=NotDefined 1=Closed 2=Moving 3=Opened	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
FireDamper2TestStrtH-MIPs	Fire damper 2 test	47843	0=Passive 1=Active	
FireFunction	Fan fire function - Fire alarm 1	28592	0=InActv 1=Stop 2=Run Sply 3=Run Exh 4=Run Both 5=Ctrl Stl	
FireFunction2	Fan fire function - Fire alarm 2	15192	0=InActv 1=Stop 2=Run Sply 3=Run Exh 4=Run Both 5=Ctrl Stl	
FireFunction3	Fan fire function - Fire alarm 3	11129	0=InActv 1=Stop 2=Run Sply 3=Run Exh 4=Run Both 5=Ctrl Stl	
FlowDisplay	FlowDisplay	36630	0=No 1=Yes 2=Yes+Outp 3=Yes+Prs 4=Yes+Prs+Outp	
Heating3PreHtgactv	Pre-heater state	65377	0=Passive 1=Active	
HeatingPreHtgactv	Heating 1 Pre-heating state	55722	0=Passive 1=Active	
HRecMBRunMode	Plate heat exchanger - Run Mode	22321		
HRecSplySnsr	Heat recovery supply temp	26068	°C	
HtgStartBMS	Heating 1 start BMS	12352	0=Off 1=On	
HumEngUnit	Humidity engineering unit	13725	0=%r.H. 1=g/kg	
IPSUMActive	IPSUM	35440	0=No 1=Yes	
IPSUMComMode	IPSUM Com.method	5664	0=Analog 1=RTU 2=TCP-direct 3=TCP-shared	
IPSUMOpMode	IPSUM	28147	0=Auto 1=Stopped 2=Supply only 3=Extract only	
IPSUMTempCtrlMode	IPSUM Temp Ctrl	55404	0=Inactive 1=Active	
MECHactv	Cooling recovery activated	59996	0=Off 1=On	
MixingFanControlRatio	Mixing fan control ratio	37857	0=Static 1=Proportional	
ModBusHKInstrFilterAlarm	MB Filter alarm	65099		
ModBusHKInstrFlow-Sensor	MB Flow sensor	19346	0=No 1=Supply 2=Extract 3=Supply+Extract	
ModBusHKInstrPreFilterAlarm	MB Pre-filter alarm	19204	0=No 1=Supply 2=Extract 3=Supply+Extract	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ModBusHKInstrPressureSensor	MB Pressure sensor	64813	0=No 1=Supply 2=Extract 3=Supply+Extract	
ModBusHKInstrType(-Dubble/Single)	HK-Instruments Type	41855	0=Single 1=Dual Sply 2=Dual Exh 3=Both	
Nbr_CircReCooler	ReCooler number of circuits	43500	0=NotUsed 1=eQKR008 2=eQKR011 3=eQKR018 4=eQKR023 5=eQKR032 6=eQKR041 7=eQKR050 8=eQKR072	
NghtCoolingConfig	Night cooling	40097	0=No 1=Yes	
NightCoolOpMBMS	Night cooling operational mode BMS	3688	0=Off 1=On	
NightUnoccCooling-Mode	Cooling coil (night cooling)	6316	0=Inactive 1=Active	
NightUnoccHeating-Mode	Heating coil (night heating)	17477	0=Inactive 1=Active	
OpModeAuto-ManStSwch	Manual operation (steps)	31604	0=Auto 1=Off 2=Stage1 3=Stage2 4=Stage3	
OpModeAutoManStT-mpSwch	Manual operation (steps/temperature)	60288	0=Auto 1=Off 2=Eco St1 3=Comf St1 4=Eco St2 5=Comf St2 6=Eco St3 7=Comf St3	
OpModeBmsTimeStSwch	BMS TSP steps	8442	0=Auto 1=Off 2=Stage 1 3=Stage 2 4=Stage 3	
OpModeBmsTimeStT-mpSwch	BMS TSP steps/temperature	32040	0=Auto 1=Off 2=Eco St1 3=ComfSt1 4=Eco St2 5=Comf St2 6=EcoSt3 7=Comf St3	
OpModeTspCopyUnitPls	OpModeTspCopyUnit.Pls	33544	0=Monday to 1=Tu to Fr	
OpStaReCooler	ReCooler operation status	41090	0=Stop 1=Running Full 2=Defrost 3=In Alarm 4=Heating 5=Cooling 6=Mandatory OFF 7=Stand By 8=Start Up	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
OpStaReCooler1	ReCooler circuit 1 operation status	57729	0=Stand By 1=Init 2=Unit running 3=Defrost 4=Rev. cycle defrost 5=Exh. Coil low temp 6=Start phase 7=Pressure diff. limit 8=Start delay 9=Alarm 10=Compressor shut off 11=Cool/Heat mode select 12=Heater run 13=Alarm unit 1 14=Alarm unit 2 15=Alarm unit 3 16=Defrost ramp up 17=Check refrigerator charge 18=Quick start	
OpStaReCooler2	ReCooler circuit 2 operation status	53730	0=Stand By 1=Init 2=Unit running 3=Defrost 4=Rev. cycle defrost 5=Exh. Coil low temp 6=Start phase 7=Pressure diff. limit 8=Start delay 9=Alarm 10=Compressor shut off 11=Cool/Heat mode select 12=Heater run 13=Alarm unit 1 14=Alarm unit 2 15=Alarm unit 3 16=Defrost ramp up 17=Check refrigerator charge 18=Quick start	
OpStaReCooler3	ReCooler circuit 3 operation status	49603	0=Stand By 1=Init 2=Unit running 3=Defrost 4=Rev. cycle defrost 5=Exh. Coil low temp 6=Start phase 7=Pressure diff. limit 8=Start delay 9=Alarm 10=Compressor shut off 11=Cool/Heat mode select 12=Heater run 13=Alarm unit 1 14=Alarm unit 2 15=Alarm unit 3 16=Defrost ramp up 17=Check refrigerator charge 18=Quick start	
OutTempSensor	Outdoor temperature sensor	50249	0=No 1=Yes 2=Yes+Hold 3=Yes+Hold+Wall	
PreHeatingPreHtgactv	Pre-heater state	30208	0=Passive 1=Active	
PressuresFilterChPls	Filters changed, pre-alarm acknowledge	46288	0=Passive 1=Active	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ReCooling	ReCooler	49408	0=No 1=1 Circuit 2=2 Circuits 3=3 Circuits	
Reset		59480		
Return/ExtTempSensor	Extract temperature sensor	62785	0=No 1=Yes 2=Yes+Hold	
RoomRHSensor	Room humidity sensor	1756	0=No 1=1 Sensor 2=2 Sensors	
RoomtempSensor	Room temperature sensor	39400	0=No 1=1 Sensor 2=2 Sensors 3=1 Room unit 4=1 Sensor + 1 Room unit 5=2 Room units	
RtCooling	Extract air cooling	47975	0=No 1=Yes 2=Modbus	
RtHumSnsr	Extract air humidity sensor	25185	0=No 1=Yes	
SeqHumEngUnit	Humidification engineering unit	64493	0=%r.H. 1=g/kg	
SnsrModbusAlm	Sensors com alarm	53317	0=Ok 1=Alarm	
SplyEngUnit	Supply fan engineering unit	54155	0=% 1=Pa 2=l/s 3=m³/h	
SplyFanActAlm	Supply fan alarm	32186	0=Nu 1=MOvrVlt. 2=MUndrVlt. 3=DCLinkUndrVlt 4=DCLinkOvrVlt 5=IntElectr 6=Locked 7=HallSnsr 8=Ovrh	
SplyFanActWarn	Supply fan warning	62832	0=Nu 1=OpenCircuitInp 2=ActSpdLowLlim 3=BrkOp 4=DCLinkVlt 5=ElectrTmp 6=MtrTmp 7=OutpStgTmp 8=Mes	
SplyFanPrsCtrlMode	Supply pressure control	6941	0=Inactive 1=Step 2=Linear	
SupplyRHSensor	Supply humidity sensor	3566	0=No 1=Yes	
SuWiSwTchCheckState	Summer/Winter mode	24616	0=Winter 1=Summer	
TempControlMode	Temperature control mode	56125	0=Supply 1=RmSplyC 2=ExtSplyC 3=RmSplyC Su 4=ExSplyC Su 5=Room 6=Extract 7=HOTC	

MULTI STATE VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
TempExtSetPFnct	External setpoint function	19178	0=Relative 1=Absolute	
TimeSchedAux	Aux TSP output	52222	0=Off 1=On	
TimeSchedSt	Actual time switch program (steps)	12316	0=Off 1=Stage1 2=Stage2 3=Stage3	
TimeSchedStTmp	Actual time switch program (steps/temperature)	596	0=Auto 1=Off 2=Eco St1 3=Comf St1 4=Eco St2 5=Comf St2 6=Eco St3 7=Comf St3	

POSITIVE INTEGER VALUE

OBJECT NAME	DESCRIPTION	OBJECT INSTANCE	VALUES/UNITS	INTRODUCED IN SW VERSION
ExhFanAlmWarn	Danfoss / QJ-DV Exhaust fan alarm warning	15816		
SplyFanAlmWarn	Danfoss/QJ-DV Supply fan alarm warning	52012		

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