

# BACnet IP

## GOLD RX/PX/CX/SD, GENERATION E

Applicable to program version 1.10 and newer versions

### Overview

This BACnet driver is implemented in GOLD PV 1.16 and provides the function of monitoring and operating the air handling unit. GOLD is a BACnet Advanced Application Controller (B-AAC). The supported Data Link Layer Options are BACnet / IP. See also document BACnet PICS (Protocol Implementation Conformance Statement) GOLD and GOLD EDE (Engineering Data Exchange).

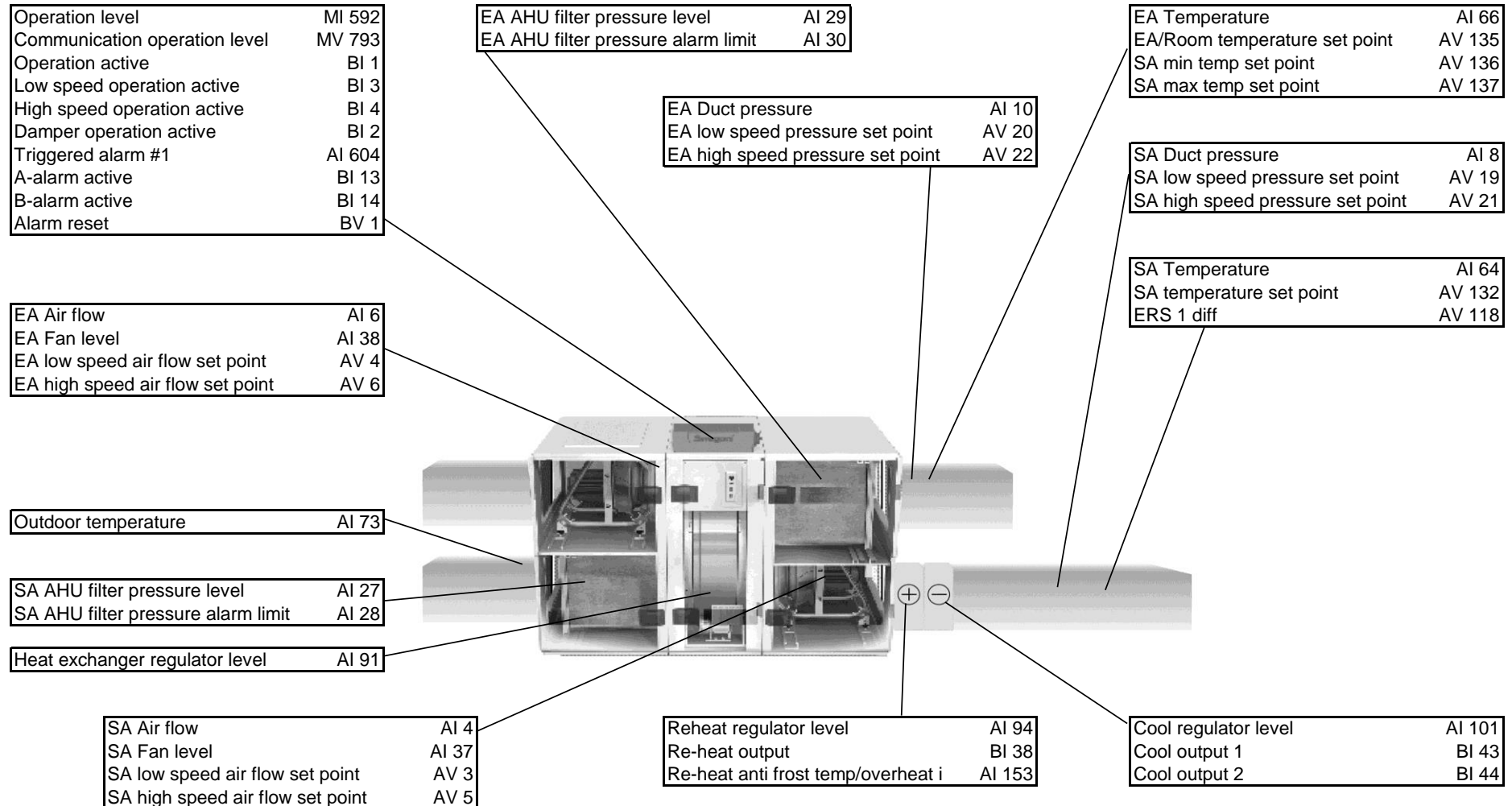
### BACnet Interoperability Building Blocks Supported.

Data Sharing	DS-RP-B	Data Sharing-Read Property-B
	DS-RPM-B	Data Sharing-Read Property Multiple-B
	DS-WP-B	Data Sharing-Write Property-B
	DS-WPM-B	Data Sharing-Write Property Multiple-B
	DS-COV-B	Data Sharing-COV-B
Alarm&Event Management	DS-COVP-B	Data Sharing-COV Property-B
	AE-N-I-B	Alarm&Event-Notification Internal-B
	AE-ACK-B	Alarm&Event-Acknowledge Alarm-B
	AE-INFO-B	Alarm&Event-Event Information-B
	AE-ASUM-B	Alarm&Event-Alarm Summary-B
Scheduling	AE-ESUM-B	Alarm&Event-Enrollment Summary -B
	SCHED-I-B	Scheduling-Internal-B
Device Management	DM-DDB-A	Device Management-Dynamic Device Binding-A
	DM-DDB-B	Device Management-Dynamic Device Binding-B
	DM-DOB-B	Device Management-Dynamic Object Binding-B
	DM-DCC-B	Device Management-Dynamic Communication Control-B
	DM-TS-B	Device Management-TimeSynchronization-B
	DM-UTC-B	Device Management-UTCTimeSynchronization-B
	DM-RD-B	Device Management-Reinitialize Device-B
	DM-R-B	Device Management-Restart-B
	DM-LM-B	Device Management-List Manipulation-B

### Standard Object Types Supported.

Object Type	Properties
Device	Object_Identifier, Object_Name, Object_Type, System_Status, Vendor_Name, Vendor_Identifier, Model_Name, Firmware_Revision, Application_Software_Version, Location, Description, Protocol_Version, Protocol_Revision, Protocol_Services_Supported, Protocol_Object_Types_Supported, Object_List, Max_APDU_Length_Accepted, Segmentation_Supported, Max_Segments_Accepted, Local_Time, Local_Date, UTC_Offset, Daylight_Savings_Status, APDU_Segment_Timeout, APDU_Timeout, Number_Of_APDU_Retries, Device_Address_Binding, Database_Revision, Active_COV_Subscriptions, Last_Restart_Reason, Time_Of_Device_Restart, Restart_Notification_Recipients.
Analog Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Units, Min_Pres_Value, Max_Pres_Value, Resolution, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Analog Output	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Units, Min_Pres_Value, Max_Pres_Value, Resolution, Priority_Array, Relinquish_Default, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Analog Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Units, Priority_Array, Relinquish_Default, COV_Increment, Time_Delay, Notification_Class, High_Limit, Low_Limit, Deadband, Limit_Enable, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Binary Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Polarity, Time_Delay, Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Binary Output	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Polarity, Priority_Array, Relinquish_Default, Time_Delay, Notification_Class, Feedback_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Binary Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Priority_Array, Relinquish_Default, Time_Delay, Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.

Calendar	Object_Identifier, Object_Name, Object_Type, Description, Present_Value, Date_List.
Multistate Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Number_Of_States, State_Text, Time_Delay, Notification_Class, Alarm_Values, Fault_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Multistate Output	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Number_Of_States, State_Text, Priority_Array, Relinquish_Default, Time_Delay, Notification_Class, Feedback_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Multistate Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Status_Flags, Event_State, Reliability, Out_Of_Service, Number_Of_States, State_Text, Priority_Array, Relinquish_Default, Time_Delay, Notification_Class, Alarm_Values, Fault_Values, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Notification Class	Object_Identifier, Object_Name, Object_Type, Description, Notification_Class, Priority, Ack_Required, Recipient_List.
Schedule	Object_Identifier, Object_Name, Object_Type, Present_Value, Description, Effective_Period, Weekly_Schedule, Exception_Schedule, Schedule_Default, List_Of_Object_Property_References, Priority_For_Writing, Status_Flags, Reliability, Out_Of_Service.



Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU Air flow/duct pressure</b>							
1	Component name	25=IQlogic	0	999			
<b>Air flow regulation</b>							
4	SA Air flow	Present supply air flow.	0	20000	l/s		
5	SA Air flow regulator	Present supply air flow regulator set point.	0	20000	l/s		
6	EA Air flow	Present extract air flow.	0	20000	l/s		
7	EA Air flow regulator	Present extract air flow regulator set point.	0	20000	l/s		
<b>Pressure regulation</b>							
8	SA Duct pressure	Present supply air duct pressure.	0.0	2000.0	Pa		
9	SA Duct pressure regulator	Present supply air duct pressure regulator set point.	0.0	2000.0	Pa		
10	EA Duct pressure	Present extract air duct pressure.	0.0	2000.0	Pa		
11	EA Duct pressure regulator	Present extract air duct pressure regulator set point.	0.0	2000.0	Pa		
<b>Demand regulation</b>							
12	Demand input level	Present input signal for demand regulation.	0.00	100.00	%		
13	Demand regulator	Present demand regulator set point.	0.00	100.00	%		
<b>Air flow pressure sensors</b>							
14	SA Air flow pressure	Present air flow pressure in the supply air fan inlet.	0.0	2000.0	Pa		
15	EA Air flow pressure	Present air flow pressure in the extract air fan inlet.	0.0	2000.0	Pa		
<b>Filters</b>							
23	SA Pre-filter pressure level	Present supply air pre-filter pressure drop.	0.0	2000.0	Pa		
24	SA Pre-filter pressure alarm limit	Present supply air pre-filter pressure alarm limit.	0.0	2000.0	Pa		
25	EA Pre-filter pressure level	Present extract air pre-filter pressure drop.	0.0	2000.0	Pa		
26	EA Pre-filter pressure alarm limit	Present extract air pre-filter pressure alarm limit.	0.0	2000.0	Pa		
27	SA AHU filter pressure level	Present supply air filter pressure drop.	0.0	2000.0	Pa		
28	SA AHU filter pressure alarm limit	Present supply air filter pressure alarm limit.	0.0	2000.0	Pa		
29	EA AHU filter pressure level	Present extract air filter pressure drop.	0.0	2000.0	Pa		
30	EA AHU filter pressure alarm limit	Present extract air filter pressure alarm limit.	0.0	2000.0	Pa		
31	SA End-filter pressure level	Present supply air end-filter pressure drop.	0.0	2000.0	Pa		
32	SA End-filter pressure alarm limit	Present supply air end-filter pressure alarm limit.	0.0	2000.0	Pa		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Fans</b>							
37	SA Fan level	Present fan speed level of the supply air fan.	0.00	100.00	%		
38	EA Fan level	Present fan speed level of the extract air fan.	0.00	100.00	%		
39	SA Fan speed	Present fan speed level of the supply air fan.	0	4000	rpm		
40	EA Fan speed	Present fan speed level of the extract air fan.	0	4000	rpm		
41	SA Voltage	Present voltage level of the supply air fan.	0	500	V		
42	EA Voltage	Present voltage level of the extract air fan.	0	500	V		
43	SA Fan current	Present current level of the supply air fans. Includes all supply air fans.	0	32.700	A		
44	EA Fan current	Present current level of the extract air fans. Includes all supply air fans.	0	32.700	A		
45	SA Fan power	Present power level of the supply air fans. Includes all supply air fans.	0	45.000	kW		
46	EA Fan power	Present power consumption level of the extract air fans. Includes all extract air fans.	0	45.000	kW		
47	SA Fan kWh	Total power consumption of the supply air fans. Includes all supply air fans.	0	9999	kWh		
48	EA Fan kWh	Total power consumption level of the extract air fans. Includes all extract air fans.	0	9999	kWh		
49	SA Fan MWh	Total power consumption of the supply air fans. Includes all supply air fans.	0	9999	MWh		
50	EA Fan MWh	Total power consumption level of the extract air fans. Includes all extract air fans.	0	9999	MWh		
51	SA Fan operation time	Total operation time of the supply air fan presented in days (24h).	0..9999	9999	days		
52	EA Fan operation time	Total operation time of the extract air fan presented in days (24h).	0..9999	9999	days		
55	SA Fan min air flow	Supply air AHU min air flow	0	18000	l/s		
56	EA Fan min air flow	Extract air AHU min air flow	0	18000	l/s		
57	SA Fan max air flow	Supply air AHU max air flow	0	18000	l/s		
58	EA Fan max air flow	Extract air AHU max air flow	0	18000	l/s		
63	SFP	Calculated SFP level.	0.0	1000.0	kW/m3/s		
<b>AHU Temperature sensors</b>							
64	SA Temperature	Present supply air temperature.	-55.00	125.00	°C		
65	SA-D Temperature	Present supply air density temperature.	-55.00	125.00	°C		
66	EA Temperature	Present extract air temperature in the unit.	-55.00	125.00	°C		
67	EA-D Temperature	Present extract air density temperature.	-55.00	125.00	°C		
68	EA Regulation temperature	Present extract air temperature used for regulation.	-55.00	125.00	°C		
69	EA Temperature PX/CX	Present extract air temperature in the unit (only AHU type PX/CX).	-55.00	125.00	°C		1.13
70	EA Temperature SD	Present extract air temperature in the unit (only AHU type SD).	-55.00	125.00	°C		1.13
72	Outdoor temperature COOL DX	Present outdoor air temperature in the COOL DX unit.	-55.00	125.00	°C		1.13
73	Outdoor temperature	Present outdoor air temperature in the unit.	-55.00	125.00	°C		
74	Outdoor regulation temperature	Present outdoor air temperature used for regulation.	-55.00	125.00	°C		
75	External outdoor temperature 1	Present external outdoor temperature of sensor 1.	-55.00	125.00	°C		
76	External outdoor temperature 2	Present external outdoor temperature of sensor 2.	-55.00	125.00	°C		
77	External outdoor temperature 3	Present external outdoor temperature of sensor 3.	-55.00	125.00	°C		
78	External outdoor temperature 4	Present external outdoor temperature of sensor 4.	-55.00	125.00	°C		
79	External outdoor temperature min/max/average	Present calculated min, max or average (depending of configuration) temperature of outd. sensor 1-4.	-55.00	125.00	°C		
80	EA Duct temperature	Present extract air duct air temperature.	-55.00	125.00	°C		1.12
81	Room temperature 1	Present room temperature of sensor 1.	-55.00	125.00	°C		

**Analog Input (RO).**

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
82	Room temperature 2	Present room temperature of sensor 2.	-55.00	125.00	°C		
83	Room temperature 3	Present room temperature of sensor 3.	-55.00	125.00	°C		
84	Room temperature 4	Present room temperature of sensor 4.	-55.00	125.00	°C		
85	Room temperature min/max/average	Present calculated min, max or average (depending of configuration) temperature of room sensor 1-4.	-55.00	125.00	°C		

**Analog Input (RO).**

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU Temperature regulation</b>							
87	SA Temp regulator	Present supply air temperature regulator set point.	0.00	50.00	°C		
88	EA Temp regulator	Present extract air temperature regulator set point.	0.00	50.00	°C		
90	Cool exchanger regulator level	Present operation level of cool recovery.	0.00	100.00	%		1.11
91	Heat exchanger regulator level	Present operation level of heat recovery.	0.00	100.00	%		
92	Extra regulation sequence 1 heat regulator level	Present level of extra regulation heat.	0.00	100.00	%		
93	Extra regulation sequence 1 heat output level		0.00	100.00	%		
94	Reheat regulator level	Present level of reheat.	0.00	100.00	%		
95	Reheat output level		0.00	100.00	%		
96	ReCO2 heat level	Present level of ReCO <sub>2</sub> heat.	0.00	100.00	%		
97	Down regulation level	Present level of fan down regulation.	0.00	100.00	%		
98	Heating boost level	Present level of heating boost.	0.00	100.00	%		
99	Extra regulation sequence 1 cool regulator level	Present level of extra regulation cool.	0.00	100.00	%		
100	Extra regulation sequence 1 cool output level	Present level of extra regulation cool.	0.00	100.00	%		
101	Cool regulator level	Present level of cooling.	0.00	100.00	%		
102	Cool output level	Present level of cooling.	0.00	100.00	%		
103	ReCO2 cool level	Present level of ReCO <sub>2</sub> heat.	0.00	100.00	%		
104	Cooling boost level	Present level of cooling boost.	0.00	100.00	%		
<b>AHU heat exchange</b>							
105	RHX operation level	Present speed level of the rotary heat exchanger.	0.00	100.00	%		
106	RHX efficiency	Calculated level of rotary heat exchanger efficiency.	0.00	100.00	%		
107	RHX defrost pressure level	Present pressure drop for the rotary heat exchanger.	0.0	2000.0	Pa		
108	RHX defrost pressure alarm limit	Present pressure drop alarm limit for the rotary heat exchanger.	0.0	2000.0	Pa		
109	RHX carry over control pressure level	Present pressure difference for the rotary heat exchangers purging sector.	0.0	1000.0	Pa		
111	RHX operation time	Total operation time of the rotary heat exchanger presented in days (24h).	0	9999	Days		
116	PX defrost pressure level	PHX-2/3: Present pressure drop for the plate heat exchanger.  PHX-1, one damper and humidity sensor. PHX-2, three dampers. PHX-3, one damper and pressure sensor.	0.0	2000.0	Pa		1.13
117	PHX-3D Bypass output	PHX-1: Present level of plate heat exchanger bypass output.	0.00	100.00	%		
118	PHX-3D Bypass input	PHX-1: Present level of plate heat exchanger bypass input.	0.00	100.00	%		
119	PHX-3D Bypass temperature 1	PHX-1: Present bypass temperature sensor 1 in plate heat exchanger.	-55.00	125.00	°C		
120	PHX-3D Bypass temperature 2	PHX-1: Present bypass temperature sensor 2 in plate heat exchanger.	-55.00	125.00	°C		
121	PX exchanger damper 1 output	PHX-2: Present level of plate heat exchanger damper 1 output.	0.00	100.00	%		1.13
122	PHX-2 Damper 1 input	Present level of plate heat exchanger damper 1 input.	0.00	100.00	%		1.16
123	PX exchanger damper 2 output	PHX-2: Present level of plate heat exchanger damper 2 output.	0.00	100.00	%		1.13
124	PHX-2 Damper 2 input	Present level of plate heat exchanger damper 2 input.	0.00	100.00	%		1.16
125	PX exchanger bypass output	PHX-2: Present level of plate heat exchanger bypass output.	0.00	100.00	%		1.13
126	PX exchanger bypass feedback	PHX-2: Present level of plate heat exchanger bypass input.	0.00	100.00	%		1.13
127	CHX Valve output	Present level of coil heat exchanger valve output.	0.00	100.00	%		
128	CHX Valve input	Present level of coil heat exchanger valve input.	0.00	100.00	%		
129	CHX Return water temperature	Present return water temperature for coil heat exchanger.	-55.00	125.00	°C		
130	PHX/CHX operation time	Total operation time of the coil heat exchanger presented in days (24h).	0	9999	Days		
132	PHX-1D Bypass output	PHX-3: Present level of plate heat exchanger bypass output.	0.00	100.00	%		1.12
133	PHX-1D Bypass input	PHX-3: Present level of plate heat exchanger bypass input.	0.00	100.00	%		1.12

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
136	PHX/CHX Humidity level	PHX-1/2: Present level of air-humidity for calculation of bypass/valve limitation.	0.00	100.00	%		
<b>AHU Coils</b>							
141	Extra regulation sequence 1 anti frost temp/overheat input	Present extra regulation anti frost temperature for water heat coil. Value 0=overheat when electric heat is used.	-55.00	125.00	°C		
143	Extra regulation sequence 2 anti frost temp/overheat input	Present extra regulation anti frost temperature for water heat coil. Value 0=overheat when electric heat is used.	-55.00	125.00	°C		1.13
146	Extra regulation sequence 1 input level		0.00	100.00	%		
147	Extra regulation sequence 1 heat operation time	Total operation time of extra regulation heat presented in days (24h).	0	9999	Days		
148	Extra regulation sequence 1 cool operation time	Total operation time of extra regulation cool presented in days (24h).	0	9999	Days		
149	Extra regulation sequence 2 input level		0.00	100.00	%		1.13
150	Extra regulation sequence 2 heat operation time	Total operation time of extra regulation heat presented in days (24h).	0	9999	Days		1.13
151	Extra regulation sequence 2 cool operation time	Total operation time of extra regulation cool presented in days (24h).	0	9999	Days		1.13
153	Re-heat anti frost temp/overheat input	Present anti frost temperature for water heat coil. Value 0=overheat when electric heat is used.	-55.00	125.00	°C		
158	Re-heat input level		0.00	100.00	%		
159	Re-heat operation time	Total operation time of re-heat presented in days (24h).	0	9999	Days		
164	Cool water temperature	Present cool water temperature for water cool coil.	-55.00	125.00	°C		
168	Cool input level		0.00	100.00	%		
169	Cool operation time	Total operation time of cool presented in days (24h).	0	9999	Days		



Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Xzone temperature sensors</b>							
174	Xzone SA temperature	Present supply air temperature.	-55.00	125.00	°C		
175	Xzone EA temperature	Present extract air temperature in the unit.	-55.00	125.00	°C		
176	Xzone EA regulation temperature	Present extract air temperature used for regulation.	-55.00	125.00	°C		
177	Xzone Room temperature 1	Present room temperature of sensor 1.	-55.00	125.00	°C		
178	Xzone Room temperature 2	Present room temperature of sensor 2.	-55.00	125.00	°C		
179	Xzone Room temperature 3	Present room temperature of sensor 3.	-55.00	125.00	°C		
180	Xzone Room temperature 4	Present room temperature of sensor 4.	-55.00	125.00	°C		
181	Xzone Room temperature min/max/average	Present calculated min, max or average (depending on configuration) temperature of room sensor 1-4.	-55.00	125.00	°C		
<b>Xzone Temperature regulation</b>							
186	Xzone SA Temp regulator	Present supply air temperature regulator set point.	0.00	50.00	°C		
187	Xzone EA Temp regulator	Present extract air temperature regulator set point.	0.00	50.00	°C		
190	Xzone re-heat regulator level		0.00	100.00	%		
193	Xzone cool regulator level		0.00	100.00	%		
<b>Xzone coils</b>							
199	Xzone heat, anti frost temp/overheat input	Present Xzone heat anti frost temperature for water heat coil. Value 0=Overheat when electric heat is used.	-55.00	125.00	°C		
203	Xzone heat, output level	Present level of Xzone heat output.	0	100.00	%		
204	Xzone heat, input level	Present Xzone heat input.	0	100.00	%		
205	Xzone heat, operation time	Total operation time of Xzone heat presented in days (24h).	0	9999	Days		
210	Xzone cool, water temperature		-55.00	125.00	°C		
214	Xzone cool, output level	Present level of Xzone cool.	0	100.00	%		
215	Xzone cool, input level	Present Xzone cool valve position.	0	100.00	%		
216	Xzone cool, operation time	Total operation time of Xzone cool presented in days (24h).	0	9999	Days		
<b>Pre-heat</b>							
220	Pre-heat temperature	Present pre-heat temperature.	-55.00	125.00	°C		
221	Pre-heat temp regulator set point	Present pre-heat temperature regulator set point.	-40.00	40.00	°C		
222	Pre-heat temp regulator level						
225	Pre-heat anti frost temp/overheat input	Present pre-heat anti frost temperature for water heat coil. Value 0=Overheat when electric heat is used.	-55.00	125.00	°C		
228	Pre-heat output level	Present pre-heat output level.	0.00	100.00	%		
229	Pre-heat input level	Present pre-heat input level.	0.00	100.00	%		
230	Pre-heat operation time	Total operation time of pre-heat presented in days (24h).	0	9999	Days		
<b>ReCO<sub>2</sub></b>							
233	ReCO2 recirculation damper output	Present output signal to the recirculation damper.	0.00	100.00	%		
234	ReCO2 recirculation damper input	Present input signal from the recirculation damper.	0.00	100.00	%		
235	ReCO2 outdoor damper output	Present output signal to the outdoor air damper.	0.00	100.00	%		
236	ReCO2 outdoor damper input	Present input signal from the outdoor air damper.	0.00	100.00	%		
237	ReCO2 outdoor air flow	Present outdoor air flow level.	0.0	AI 57	l/s		
238	ReCO2 outdoor air flow regulator set point	Present outdoor air flow regulator set point.	0.0	AI 57	l/s		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Humidity</b>							
244	SA humidity level	Present level of supply air humidity	0.00	100.00	%RH		
245	SA humidity temperature	Present temperature inside the supply air humidity sensor.	-40.00	123.00	°C		
246	SA dew point	Calculated supply air dew point.	-40.00	40.00	°C		
247	EA humidity level	Present level of extract air humidity.	0.00	100.00	%RH		
248	EA humidity temperature	Present temperature inside the extract air humidity sensor.	-40.00	123.00	°C		
249	EA dew point	Calculated extract air dew point.	-40.00	40.00	°C		
251	Dehumidifying SA dew point regulator set point	Present supply air dew point regulator point.	-40.00	40.00	°C		
252	Dehumidifying output level	Present level of the dehumidifying output.	0.00	100.00	%		
254	Humidifying SA regulator set point		0.00	100.00	%RH		
255	Humidifying output level	Present level of the dehumidifying output.	0.00	100.00	%		
<b>VOC</b>							
266	VOC level	Present level of VOC	450	10000	ppm		
<b>COOL DX</b>							
271	COOL DX, unit power size		0	15			
274	COOL DX, compressor 1 low pressure level		0	34.50	Bar		
275	COOL DX, compressor 1 high pressure level		0	45.00	Bar		
276	COOL DX, compressor 2 low pressure level		0	34.50	Bar		
277	COOL DX, compressor 2 high pressure level		0	45.00	Bar		
<b>SMART Link</b>							
289	SMART Link, WB outlet water 1		-40.0	176.0	°C		
290	SMART Link, WB outlet water 2		-40.0	176.0	°C		
291	SMART Link, WB outlet water 3		-40.0	176.0	°C		
292	SMART Link, WB outlet water 4		-40.0	176.0	°C		
293	SMART Link, WB outlet water average		-40.0	176.0	°C		
294	SMART Link, WB return water		-40.0	176.0	°C		
297	SMART Link WB, heated water set point		-40.0	176.0	°C		
298	SMART Link WB, chilled water set point		-40.0	176.0	°C		
299	SMART Link WB, Min heated water set point		-40.0	176.0	°C		
300	SMART Link WB, Max heated water set point		-40.0	176.0	°C		
301	SMART Link WB, Min chilled water set point		-40.0	176.0	°C		
302	SMART Link WB, Max chilled water set point		-40.0	176.0	°C		
327	SMART Link, DX unit 1 power level set point		0	100.00	%		
328	SMART Link, DX unit 1 power level		0	100.00	%		
329	SMART Link, DX unit 1 operation time		0	9999	Days		
338	SMART Link, DX unit 2 power level set point		0	100.00	%		
339	SMART Link, DX unit 2 power level		0	100.00	%		
340	SMART Link, DX unit 2 operation time		0	9999	Days		
349	SMART Link, DX unit 3 power level set point		0	100.00	%		
350	SMART Link, DX unit 3 power level		0	100.00	%		
351	SMART Link, DX unit 3 operation time		0	9999	Days		
360	SMART Link, DX unit 4 power level set point		0	100.00	%		
361	SMART Link, DX unit 4 power level		0	100.00	%		
362	SMART Link, DX unit 4 operation time		0	9999	Days		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AYC</b>							
374	AYC Heat, heated water	Present heat temperature.	-55.00	125.00	°C		
375	AYC Heated water set point	Present heat temperature regulator set point.	0	100.00	°C		
376	AYC Heat, valve output	Present level of the heat valve output.	0	100.00	%		
377	AYC Heat, valve input	Present level of the heat valve input.	0	100.00	%		
378	AYC Heat, operation time	Total operation time of AYC heat presented in days (24h).	0	9999	Days		
379	AYC Heated water heat demand		0	100.00	%		
387	AYC Cool, chilled water	Present cool temperature.	-55.00	125.00	°C		
388	AYC Chilled water set point	Present cool temperature regulator set point.	0	100.00	°C		
389	AYC Cool, valve output	Present cool of the heat valve output.	0	100.00	%		
390	AYC Cool, valve input	Present cool of the heat valve input.	0	100.00	%		
391	AYC Cool, operation time	Total operation time of AYC cool presented in days (24h).	0	9999	Days		
392	AYC Chilled water cool demand		0	100.00	%		
<b>MIRU Control</b>							
400	MIRU Control 1 Min air flow	Min possible air flow setting	0	10000	l/s		
401	MIRU Control 1 Max air flow	Max possible air flow setting	0	10000	l/s		
402	MIRU Control 1 Air flow	Present air flow.	0	1000	l/s		
403	MIRU Control 1 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
404	MIRU Control 1 Pressure	Present duct pressure.	0	750	Pa		
405	MIRU Control 1 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
406	MIRU Control 1 External temperature	Present external temperature.	-55.00	95.00	°C		
407	MIRU Control 1 Operation time	Present operation time, present in days (24h).	0	9999	Days		
408	MIRU Control 1 Fan level	Present running level of the fan.	0.00	100.00	%		
409	MIRU Control 1 Fan power	Present power consumption level of the fan.	0	6000	W		
410	MIRU Control 1 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
411	MIRU Control 1 kWh	kWh value.	0	9999	kWh		
412	MIRU Control 1 MWh	MWh value.	0	32000	MWh		
417	MIRU Control 2 Min air flow	Min possible air flow setting	0	10000	l/s		
418	MIRU Control 2 Max air flow	Max possible air flow setting	0	10000	l/s		
419	MIRU Control 2 Air flow	Present air flow.	0	1000	l/s		
420	MIRU Control 2 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
421	MIRU Control 2 Pressure	Present duct pressure.	0	750	Pa		
422	MIRU Control 2 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
423	MIRU Control 2 External temperature	Present external temperature.	-55.00	95.00	°C		
424	MIRU Control 2 Operation time	Present operation time, present in days (24h).	0	9999	Days		
425	MIRU Control 2 Fan level	Present running level of the fan.	0.00	100.00	%		
426	MIRU Control 2 Fan power	Present power consumption level of the fan.	0	6000	W		
427	MIRU Control 2 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
428	MIRU Control 2 kWh	kWh value.	0	9999	kWh		
429	MIRU Control 2 MWh	MWh value.	0	32000	MWh		
434	MIRU Control 3 Min air flow	Min possible air flow setting	0	10000	l/s		
435	MIRU Control 3 Max air flow	Max possible air flow setting	0	10000	l/s		
436	MIRU Control 3 Air flow	Present air flow.	0	1000	l/s		
437	MIRU Control 3 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
438	MIRU Control 3 Pressure	Present duct pressure.	0	750	Pa		
439	MIRU Control 3 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
440	MIRU Control 3 External temperature	Present external temperature.	-55.00	95.00	°C		
441	MIRU Control 3 Operation time	Present operation time, present in days (24h).	0	9999	Days		

**Analog Input (RO).**

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
442	MIRU Control 3 Fan level	Present running level of the fan.	0.00	100.00	%		
443	MIRU Control 3 Fan power	Present power consumption level of the fan.	0	6000	W		
444	MIRU Control 3 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
445	MIRU Control 3 kWh	kWh value.	0	9999	kWh		
446	MIRU Control 3 MWh	MWh value.	0	32000	MWh		
451	MIRU Control 4 Min air flow	Min possible air flow setting	0	10000	l/s		
452	MIRU Control 4 Max air flow	Max possible air flow setting	0	10000	l/s		
453	MIRU Control 4 Air flow	Present air flow.	0	1000	l/s		
454	MIRU Control 4 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
455	MIRU Control 4 Pressure	Present duct pressure.	0	750	Pa		
456	MIRU Control 4 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
457	MIRU Control 4 External temperature	Present external temperature.	-55.00	95.00	°C		
458	MIRU Control 4 Operation time	Present operation time, present in days (24h).	0	9999	Days		
459	MIRU Control 4 Fan level	Present running level of the fan.	0.00	100.00	%		
460	MIRU Control 4 Fan power	Present power consumption level of the fan.	0	6000	W		
461	MIRU Control 4 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
462	MIRU Control 4 kWh	kWh value.	0	9999	kWh		
463	MIRU Control 4 MWh	MWh value.	0	32000	MWh		
468	MIRU Control 5 Min air flow	Min possible air flow setting	0	10000	l/s		
469	MIRU Control 5 Max air flow	Max possible air flow setting	0	10000	l/s		
470	MIRU Control 5 Air flow	Present air flow.	0	1000	l/s		
471	MIRU Control 5 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
472	MIRU Control 5 Pressure	Present duct pressure.	0	750	Pa		
473	MIRU Control 5 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
474	MIRU Control 5 External temperature	Present external temperature.	-55.00	95.00	°C		
475	MIRU Control 5 Operation time	Present operation time, present in days (24h).	0	9999	Days		
476	MIRU Control 5 Fan level	Present running level of the fan.	0.00	100.00	%		
477	MIRU Control 5 Fan power	Present power consumption level of the fan.	0	6000	W		
478	MIRU Control 5 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
479	MIRU Control 5 kWh	kWh value.	0	9999	kWh		
480	MIRU Control 5 MWh	MWh value.	0	32000	MWh		
485	MIRU Control 6 Min air flow	Min possible air flow setting	0	10000	l/s		
486	MIRU Control 6 Max air flow	Max possible air flow setting	0	10000	l/s		
487	MIRU Control 6 Air flow	Present air flow.	0	1000	l/s		
488	MIRU Control 6 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
489	MIRU Control 6 Pressure	Present duct pressure.	0	750	Pa		
490	MIRU Control 6 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
491	MIRU Control 6 External temperature	Present external temperature.	-55.00	95.00	°C		
492	MIRU Control 6 Operation time	Present operation time, present in days (24h).	0	9999	Days		
493	MIRU Control 6 Fan level	Present running level of the fan.	0.00	100.00	%		
494	MIRU Control 6 Fan power	Present power consumption level of the fan.	0	6000	W		
495	MIRU Control 6 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
496	MIRU Control 6 kWh	kWh value.	0	9999	kWh		
497	MIRU Control 6 MWh	MWh value.	0	32000	MWh		
502	MIRU Control 7 Min air flow	Min possible air flow setting	0	10000	l/s		
503	MIRU Control 7 Max air flow	Max possible air flow setting	0	10000	l/s		
504	MIRU Control 7 Air flow	Present air flow.	0	1000	l/s		
505	MIRU Control 7 Air flow set point	Present air flow regulator set point.	0	1000	l/s		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
506	MIRU Control 7 Pressure	Present duct pressure.	0	750	Pa		
507	MIRU Control 7 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
508	MIRU Control 7 External temperature	Present external temperature.	-55.00	95.00	°C		
509	MIRU Control 7 Operation time	Present operation time, present in days (24h).	0	9999	Days		
510	MIRU Control 7 Fan level	Present running level of the fan.	0.00	100.00	%		
511	MIRU Control 7 Fan power	Present power consumption level of the fan.	0	6000	W		
512	MIRU Control 7 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
513	MIRU Control 7 kWh	kWh value.	0	9999	kWh		
514	MIRU Control 7 MWh	MWh value.	0	32000	MWh		
519	MIRU Control 8 Min air flow	Min possible air flow setting	0	10000	l/s		
520	MIRU Control 8 Max air flow	Max possible air flow setting	0	10000	l/s		
521	MIRU Control 8 Air flow	Present air flow.	0	1000	l/s		
522	MIRU Control 8 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
523	MIRU Control 8 Pressure	Present duct pressure.	0	750	Pa		
524	MIRU Control 8 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
525	MIRU Control 8 External temperature	Present external temperature.	-55.00	95.00	°C		
526	MIRU Control 8 Operation time	Present operation time, present in days (24h).	0	9999	Days		
527	MIRU Control 8 Fan level	Present running level of the fan.	0.00	100.00	%		
528	MIRU Control 8 Fan power	Present power consumption level of the fan.	0	6000	W		
529	MIRU Control 8 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
530	MIRU Control 8 kWh	kWh value.	0	9999	kWh		
531	MIRU Control 8 MWh	MWh value.	0	32000	MWh		
536	MIRU Control 9 Min air flow	Min possible air flow setting	0	10000	l/s		
537	MIRU Control 9 Max air flow	Max possible air flow setting	0	10000	l/s		
538	MIRU Control 9 Air flow	Present air flow.	0	1000	l/s		
539	MIRU Control 9 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
540	MIRU Control 9 Pressure	Present duct pressure.	0	750	Pa		
541	MIRU Control 9 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
542	MIRU Control 9 External temperature	Present external temperature.	-55.00	95.00	°C		
543	MIRU Control 9 Operation time	Present operation time, present in days (24h).	0	9999	Days		
544	MIRU Control 9 Fan level	Present running level of the fan.	0.00	100.00	%		
545	MIRU Control 9 Fan power	Present power consumption level of the fan.	0	6000	W		
546	MIRU Control 9 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
547	MIRU Control 9 kWh	kWh value.	0	9999	kWh		
548	MIRU Control 9 MWh	MWh value.	0	32000	MWh		
553	MIRU Control 10 Min air flow	Min possible air flow setting	0	10000	l/s		
554	MIRU Control 10 Max air flow	Max possible air flow setting	0	10000	l/s		
555	MIRU Control 10 Air flow	Present air flow.	0	1000	l/s		
556	MIRU Control 10 Air flow set point	Present air flow regulator set point.	0	1000	l/s		
557	MIRU Control 10 Pressure	Present duct pressure.	0	750	Pa		
558	MIRU Control 10 Pressure set point	Present duct pressure regulator set point.	0	750	Pa		
559	MIRU Control 10 External temperature	Present external temperature.	-55.00	95.00	°C		
560	MIRU Control 10 Operation time	Present operation time, present in days (24h).	0	9999	Days		
561	MIRU Control 10 Fan level	Present running level of the fan.	0.00	100.00	%		
562	MIRU Control 10 Fan power	Present power consumption level of the fan.	0	6000	W		
563	MIRU Control 10 SFP	Present SFP value.	0	5.00	kW/m <sup>3</sup> /s		
564	MIRU Control 10 kWh	kWh value.	0	9999	kWh		
565	MIRU Control 10 MWh	MWh value.	0	32000	MWh		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Software</b>							
570	IQlogic software version	Present controller software version	0.00	99.00			
<b>Alarms</b>							
604	Triggered alarm #1	((Alarm group - 1) x 15) + alarm number in group=Triggered alarm number. Zero if no triggered alarm.	0	1500			
605	Triggered alarm #2		0	1500			
606	Triggered alarm #3		0	1500			
607	Triggered alarm #4		0	1500			
608	Triggered alarm #5		0	1500			
609	Triggered alarm #6		0	1500			
610	Triggered alarm #7		0	1500			
611	Triggered alarm #8		0	1500			
612	Triggered alarm #9		0	1500			
613	Triggered alarm #10		0	1500			
614	Triggered alarm group #1	Zero if no triggered alarm group.	0	100			
615	Triggered alarm group #2		0	100			
616	Triggered alarm group #3		0	100			
617	Triggered alarm group #4		0	100			
618	Triggered alarm group #5		0	100			
619	Triggered alarm group #6		0	100			
620	Triggered alarm group #7		0	100			
621	Triggered alarm group #8		0	100			
622	Triggered alarm group #9		0	100			
623	Triggered alarm group #10		0	100			

## Analog Output (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
1	Extract air start up	Extract air start up flow.	AI 56	AI 58	l/s		

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU fan regulation</b>							
3	SA low speed air flow set point	Supply air flow set point for the unit when running in low speed operation.	0	AV 5	l/s		
4	EA low speed air flow set point	Extract air flow set point for the unit when running in low speed operation.	0	AV 6	l/s		
5	SA high speed air flow set point	Supply air flow set point for the unit when running in high speed operation.	AV 3	AV 7	l/s		
6	EA high speed air flow set point	Extract air flow set point for the unit when running in high speed operation.	AV 4	AV 8	l/s		
7	SA max speed air flow set point	Supply air flow max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	AV 5	AI 57	l/s		
8	EA max speed air flow set point	Extract air flow max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	AV 6	AI 58	l/s		
9	SA regulation zone	Supply air flow regulation zone setting in % of the present air flow set point that the regulator is allowed to work within.	1.00	40.00	%	20.00	
10	EA regulation zone	Extract air flow regulation zone setting in % of the present air flow set point that the regulator is allowed to work within.	1.00	40.00	%	20.00	
11	SA regulation I-time	Supply air flow regulator affection setting.	1	1800	s	40	
12	EA regulation I-time	Extract air flow regulator affection setting.	1	1800	s	40	
<b>Pressure regulation</b>							
19	SA low speed pressure set point	Supply air duct pressure set point for the unit when running in low speed operation.	0.0	AV 21	Pa		
20	EA low speed pressure set point	Extract air duct pressure set point for the unit when running in low speed operation.	0.0	AV 22	Pa		
21	SA high speed pressure set point	Supply air duct pressure for the unit when running in high speed operation.	AV 19	AV 23	Pa		
22	EA high speed pressure set point	Extract air duct pressure set point for the unit when running in high speed operation.	AV 20	AV 24	Pa		
23	SA max speed pressure set point	Supply air duct pressure max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	AV 21	750.0	Pa		
24	EA max speed pressure set point	Extract air duct pressure max. limit for the unit when the low/high speed operation set point is altered by boosting function etc.	AV 22	750.0	Pa		
25	SA max speed output signal	Max. limit for the supply air fan speed when running in pressure regulation mode.	0	100.00	%		
26	EA max speed output signal	Max. limit for the extract air fan speed when running in pressure regulation mode.	0	100.00	%		
27	SA pressure regulation zone	Supply air pressure regulation zone setting in % of the present duct pressure set point that the regulator is allowed to work within.	0	10.00	%	7.50	
28	EA pressure regulation zone	Extract air pressure regulation zone setting in % of the present duct pressure set point that the regulator is allowed to work within.	0	10.00	%	7.50	
29	SA pressure I-time	Supply air pressure regulator affection setting.	0	1800	s	30	
30	EA pressure I-time	Extract air pressure regulator affection setting.	0	1800	s	30	



Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Demand regulation</b>							
37	Demand low speed demand set point	Set point for the 0..10V input signal for the unit when running in low speed operation.	0.00	100.00	%	50.00	
38	Demand high speed demand set point	Set point for the 0..10V input signal for the unit when running in high speed operation.	10.00	100.00	%	25.00	
39	SA min speed air flow set point	Supply air flow min. limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	AI 55	AV 41	l/s		
40	EA min speed air flow set point	Extract air flow min. limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	AI 56	AV 42	l/s		
41	SA max speed air flow set point	Supply air flow max limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	AV 39	AI 57	l/s		
42	EA max speed air flow set point	Extract air flow max. limit for the unit when the low/high speed operation set point is altered when running in fan regulation mode demand.	AV 40	AI 58	l/s		
43	SA demand P-band	Supply air demand regulator P-band setting.	1.00	100.00	%	40.00	
44	SA demand I-time	Supply air demand regulator affection setting.	1	1800	s	1200	
<b>Slave controlled regulation</b>							
50	Slave offset factor		50.00	200.00	%	0.00	
<b>Fans OA temp compensation</b>							
54	Outdoor temp compensation X1		-50.00	AV 55	°C	-20.00	
55	Outdoor temp compensation X2		AV 54	AV 56	°C	-10.00	
56	Outdoor temp compensation X3		AV 55	AV 57	°C	10.00	
57	Outdoor temp compensation X4		AV 56	50.00	°C	20.00	
58	Outdoor temp compensation Y1 SA air flow		AI 55	AI 57	l/s		
59	Outdoor temp compensation Y2 SA air flow		AI 55	AI 57	l/s		
60	Outdoor temp compensation Y3 SA air flow		AI 55	AI 57	l/s		
61	Outdoor temp compensation Y4 SA air flow		AI 55	AI 57	l/s		
62	Outdoor temp compensation Y1 EA air flow		AI 56	AI 58	l/s		
63	Outdoor temp compensation Y2 EA air flow		AI 56	AI 58	l/s		
64	Outdoor temp compensation Y3 EA air flow		AI 56	AI 58	l/s		
65	Outdoor temp compensation Y4 EA air flow		AI 56	AI 58	l/s		
66	Outdoor temp compensation Y1 SA pressure		20.0	750.0	Pa	100.0	
67	Outdoor temp compensation Y2 SA pressure		20.0	750.0	Pa	100.0	
68	Outdoor temp compensation Y3 SA pressure		20.0	750.0	Pa	100.0	
69	Outdoor temp compensation Y4 SA pressure		20.0	750.0	Pa	100.0	
70	Outdoor temp compensation Y1 EA pressure		20.0	750.0	Pa	100.0	
71	Outdoor temp compensation Y2 EA pressure		20.0	750.0	Pa	100.0	
72	Outdoor temp compensation Y3 EA pressure		20.0	750.0	Pa	100.0	
73	Outdoor temp compensation Y4 EA pressure		20.0	750.0	Pa	100.0	
<b>Fans down regulation</b>							
79	Down regulation neutralzone		0.00	10.00	K	0.00	
80	Down regulation P-band		1.00	10.00	K	7.00	
81	Down regulation I-time		1	1800	s	60	
<b>Fans in operation at active fire alarm</b>							
85	SA fan speed at fire alarm 1		0.00	100.00	%	100.00	
86	EA fan speed at fire alarm 1		0.00	100.00	%	100.00	
88	SA fan speed at fire alarm 2		10.00	100.00	%	100.00	
89	EA fan speed at fire alarm 2		10.00	100.00	%	100.00	
91	SA fan speed at internal fire alarm		10.00	100.00	%	100.00	
92	EA fan speed at internal fire alarm		10.00	100.00	%	100.00	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Filters</b>							
97	SA pre-filter alarm limit		30.0	500.0	Pa	100.0	
98	EA pre-filter alarm limit		30.0	500.0	Pa	100.0	
103	SA AHU-filter alarm limit		30.0	500.0	Pa	100.0	
104	EA AHU-filter alarm limit		30.0	500.0	Pa	100.0	
109	SA end-filter alarm limit		30.0	500.0	Pa	100.0	
<b>ERS-1 reg.</b>							
117	ERS 1 step	Curve setting according to the diagram for ERS 1.	1	4		2	
118	ERS 1 diff	Supply air temp difference setting according to the diagram for ERS 1.	1.00	7.00	K	2.00	
119	ERS 1 breakpoint	Breakpoint temp setting according to the diagram for ERS 1.	12.00	26.00	°C	22.00	
<b>ERS-2 reg.</b>							
122	ERS 2 breakpoint X1	Breakpoint X1 setting according to the diagram for ERS 2.	10.00	AV 123	°C	15.00	
123	ERS 2 breakpoint X2	Breakpoint X2 setting according to the diagram for ERS 2.	AV 122	AV 124	°C	20.00	
124	ERS 2 breakpoint X3	Breakpoint X3 setting according to the diagram for ERS 2.	AV 123	AV 125	°C	22.00	
125	ERS 2 breakpoint X4	Breakpoint X4 setting according to the diagram for ERS 2.	AV 124	40.00	°C	24.00	
126	ERS 2 breakpoint Y1	Breakpoint Y1 setting according to the diagram for ERS 2.	10.00	40.00	°C	20.00	
127	ERS 2 breakpoint Y2	Breakpoint Y2 setting according to the diagram for ERS 2.	10.00	40.00	°C	18.00	
128	ERS 2 breakpoint Y3	Breakpoint Y3 setting according to the diagram for ERS 2.	10.00	40.00	°C	14.00	
129	ERS 2 breakpoint Y4	Breakpoint Y4 setting according to the diagram for ERS 2.	10.00	40.00	°C	12.00	
<b>SA Reg.</b>							
132	SA temperature set point	Supply air temperature setting, for supply air temp regulation mode.	10.00	40.00	°C	21.00	
<b>EA Reg.</b>							
135	EA/Room temperature set point	Extract air/room temperature setting, for Extract air/room temp regulation mode.	10.00	40.00	°C	21.00	
136	SA min temp set point	Supply air min. set point during EA/room regulation mode.	8.00	20.00	°C	16.00	
137	SA max temp set point	Supply air max. set point during EA/room regulation mode.	16.00	50.00	°C	28.00	
138	EA regulaion P-band		1.00	10.00	K	5.00	
139	EA regulaion I-time		1	1800	s	30	
<b>ORS Reg.</b>							
142	ORS breakpoint X1	Breakpoint X1 setting according to the diagram for ORS.	-5.00	AV 143	°C	-20.00	
143	ORS breakpoint X2	Breakpoint X2 setting according to the diagram for ORS.	AV 142	AV 144	°C	-10.00	
144	ORS breakpoint X3	Breakpoint X3 setting according to the diagram for ORS.	AV 143	AV 145	°C	10.00	
145	ORS breakpoint X4	Breakpoint X4 setting according to the diagram for ORS.	AV 144	50.00	°C	20.00	
146	ORS breakpoint Y1	Breakpoint Y1 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
147	ORS breakpoint Y2	Breakpoint Y2 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
148	ORS breakpoint Y3	Breakpoint Y3 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
149	ORS breakpoint Y4	Breakpoint Y4 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
<b>ORE Reg.</b>							
152	ORE breakpoint X1	Breakpoint X1 setting according to the diagram for ORE.	-5.00	AV 153	°C	-20.00	
153	ORE breakpoint X2	Breakpoint X2 setting according to the diagram for ORE.	AV 152	AV 154	°C	-10.00	
154	ORE breakpoint X3	Breakpoint X3 setting according to the diagram for ORE.	AV 153	AV 155	°C	10.00	
155	ORE breakpoint X4	Breakpoint X4 setting according to the diagram for ORE.	AV 154	50.00	°C	20.00	
156	ORE breakpoint Y1	Breakpoint Y1 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
157	ORE breakpoint Y2	Breakpoint Y2 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
158	ORE breakpoint Y3	Breakpoint Y3 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
159	ORE breakpoint Y4	Breakpoint Y4 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU external sensors</b>							
168	External room temp from BMS		-55.00	125.00	°C	0.00	
169	External room temp from BMS alarm time		0	9999	min	5	
178	External OA temp from BMS		-55.00	125.00	°C	0.00	
179	External OA temp from BMS alarm time		0	9999	min	5	
<b>AHU Heat exchange</b>							
184	RHX defrost start limit		30.0	100.0	Pa	50.0	
188	RHX sorption rotor function	Moved to Multistate Value 188	0	2		0	1.16
191	RHX min exhaust air temp set point		-40.00	20.00	°C	5.00	
192	RHX min exhaust air temp P-band		1.00	40.00	K	8.00	
193	RHX min exhaust air temp I-time		0	30000	s	30	
199	PHX periodic operation interval		0	168	h	24	
200	PHX periodic operation time		0	60	min	3	
207	CHX periodic operation interval		0	168	h	24	
208	CHX periodic operation time		0	60	min	3	
213	PHX/CHX Bypass defrost limit	PHX is default 3°C, CHX is default 5°C.	-10.00	5.00	°C		
214	PHX/CHX Bypass defrost P-band		1.00	40.00	K	20.00	
215	PHX/CHX Bypass defrost I-time		1	600	s	60	
220	Heat exchange temperature regulation P-band		1.00	40.00	K	7.00	
221	Heat exchange temperature regulation I-time		1	1800	s	60	
222	Cool exchange temperature regulation P-band		1.00	10.00	K	6.00	1.11
223	Cool exchange temperature regulation I-time		1	1800	s	50	1.11
<b>AHU Heat/Cool</b>							
226	Re-heat P-band		1.00	40.00	K	8.00	
227	Re-heat I-time		1	1800	s	70	
230	Re-heat periodic operation interval		0	168	h	24	
231	Re-heat periodic operation time		0	60	min	3	
239	Extra regulation sequence 1 heat max output signal	Maximum output signal setting for the extra regulation sequence.	0.00	100.00	%	100.00	
240	Extra regulation sequence 1 cool max output signal	Maximum output signal setting for the extra regulation sequence.	0.00	100.00	%	100.00	
241	Extra regulation sequence 1 heat P-band		1.00	40.00	K	8	
242	Extra regulation sequence 1 heat I-time		1	1800	s	70	
243	Extra regulation sequence 1 cool P-band		1.00	40.00	K	9	
244	Extra regulation sequence 1 cool I-time		1	1800	s	80	
247	Extra regulation 1 periodic operation interval		0	168	h	24	
248	Extra regulation 1 periodic operation time		0	60	min	3	
252	Extra regulation 1 temperature protection temperature		-50.00	100.00	°C	0.00	
253	Extra regulation 1 temperature protection alarm delay		0	9999	min	5	
258	Cool step 1 min supply air flow limit		0	AV 259	l/s		1.16
259	Cool step 2 min supply air flow limit		AV 258	AV 260	l/s		1.16
260	Cool step 3 min supply air flow limit		AV 259	AI 57	l/s		1.16
262	Cool SA neutral zone		0	10.00	K	0.50	
263	Cool EA neutral zone		0	10.00	K	0.50	
264	Cool outdoor temp limit 1		0.00	30.00	°C	15.00	
265	Cool outdoor temp limit 2		0.00	30.00	°C	18.00	
266	Cool outdoor temp limit 3		0.00	30.00	°C	20.00	
267	Cool 0-10V min supply air flow limit		0	AI 57	l/s		
268	Cool 0-10V min extract air flow limit		0	AI 58	l/s		
269	Cool restart time	Setting of cool restart time between start-start.	0	15	min	5	
270	Cool step up delay time	Setting of on/off cooling and COOL DX time delay between steps.	0	10	min	5	
271	Cool stand still time	Setting of on/off cooling and COOL DX time delay before stop-start	0	20	min	5	
272	Cool P-band		1.00	40.00	K	9	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
273	Cool I-time		1	1800	s	80	
277	Cool periodic operation interval		0	168	h	24	
278	Cool periodic operation time		0	60	min	3	
279	Cool step 1 min extract air flow limit		0	AV 280	l/s		1.16
280	Cool step 2 min extract air flow limit		AV 279	AV 281	l/s		1.16
281	Cool step 3 min extract air flow limit		AV 280	AI 58	l/s		1.16

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Summer night cool/Intermittent night heat /Morning boost</b>							
285	Summer night cool start time (hour)		0	23	h	23	
286	Summer night cool start time (minute)		0	59	min	0	
287	Summer night cool stop time (hour)		0	23	h	23	
288	Summer night cool stop time (minute)		0	59	min	0	
289	Summer night cool OA temp start limit		-5.00	15.00	°C	10.00	
290	Summer night cool EA temp start limit		17.00	27.00	°C	22.00	
291	Summer night cool EA temp stop limit		12.00	22.00	°C	16.00	
292	Summer night cool SA temp set point		0.00	20.00	°C	10.00	
297	Intermittent night heat SA flow set point		AI 55	AI 57	l/s		
298	Intermittent night heat SA duct pressure set point		20	750	Pa	100	
299	Intermittent night heat EA temp start limit		5.00	AV 300	°C	16.00	
300	Intermittent night heat EA temp stop limit		AV 299	25.00	°C	18.00	
301	Intermittent night heat SA temp set point		5.00	50.00	°C	28.00	
303	Intermittent night heat EA flow set point		3x0056	3x0058	l/s		1.12
304	Intermittent night heat EA duct pressure set point		20	750	Pa		1.12
306	Morning boost start time (hour)		0	23	h	0	
307	Morning boost start time (minute)		0	59	min	0	
308	Morning boost air flow set point		AI 55	AI 57	l/s		
309	Morning boost duct pressure set point		20	750	Pa	100	
<b>Cooling boost/heating boost</b>							
314	Cooling boost comfort start limit		2.00	10.00	K	3.00	
315	Cooling boost comfort regulation speed		0.1	25	%/s	4	
316	Cooling boost economy P-band		1	40.00	K	5.00	
317	Cooling boost economy I-time		1	1800	s	50	
321	Heating boost comfort start limit		2.00	10.00	K	3.00	
322	Heating boost comfort regulation speed		0.1	25	%/s	4	
<b>Xzone ERS-1 reg.</b>							
331	Xzone ERS 1 step	Curve setting according to the diagram for ERS 1.	1	4		2	
332	Xzone ERS 1 diff	Supply air temp differential setting according to the diagram for ERS 1.	1	7.00	K	2.00	
333	Xzone ERS 1 breakpoint	Breakpoint temp setting according to the diagram for ERS 1.	12.00	26.00	°C	22.00	
<b>Xzone ERS-2 reg.</b>							
336	Xzone ERS 2 breakpoint X1	Breakpoint X1 setting according to the diagram for ERS 2.	10	AV 337	°C	15.00	
337	Xzone ERS 2 breakpoint X2	Breakpoint X2 setting according to the diagram for ERS 2.	AV 336	AV 338	°C	20.00	
338	Xzone ERS 2 breakpoint X3	Breakpoint X3 setting according to the diagram for ERS 2.	AV 337	AV 339	°C	22.00	
339	Xzone ERS 2 breakpoint X4	Breakpoint X4 setting according to the diagram for ERS 2.	AV 338	40.00	°C	24.00	
340	Xzone ERS 2 breakpoint Y1	Breakpoint Y1 setting according to the diagram for ERS 2.	10.00	40.00	°C	20.00	
341	Xzone ERS 2 breakpoint Y2	Breakpoint Y2 setting according to the diagram for ERS 2.	10.00	40.00	°C	18.00	
342	Xzone ERS 2 breakpoint Y3	Breakpoint Y3 setting according to the diagram for ERS 2.	10.00	40.00	°C	14.00	
343	Xzone ERS 2 breakpoint Y4	Breakpoint Y4 setting according to the diagram for ERS 2.	10.00	40.00	°C	12.00	
<b>Xzone SA Reg.</b>							
346	Xzone SA temperature set point	Supply air temperature setting, for supply air temp regulation mode.	10.00	40.00	°C	21.00	
<b>Xzone EA Reg.</b>							
349	Xzone EA/Room temperature set point	Extract air/room temperature setting, for Extract air/room temp regulation mode.	10.00	40.00	°C	21.00	
350	Xzone SA min temp set point	Supply air min. set point during EA/room regulation mode.	8.00	20.00	°C	16.00	
351	Xzone SA max temp set point	Supply air max. set point during EA/room regulation mode.	16.00	50.00	°C	28.00	
352	Xzone EA regulaion P-band		1.00	10.00	K	5.00	
353	Xzone EA regulaion I-time		1	1800	s	180	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Xzone ORS Reg.</b>							
354	Xzone ORS breakpoint X1	Breakpoint X1 setting according to the diagram for ORS.	-5.00	AV 355	°C	-20.00	
355	Xzone ORS breakpoint X2	Breakpoint X2 setting according to the diagram for ORS.	AV 354	AV 356	°C	-10.00	
356	Xzone ORS breakpoint X3	Breakpoint X3 setting according to the diagram for ORS.	AV 355	AV 357	°C	10.00	
357	Xzone ORS breakpoint X4	Breakpoint X4 setting according to the diagram for ORS.	AV 356	50.00	°C	20.00	
358	Xzone ORS breakpoint Y1	Breakpoint Y1 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
359	Xzone ORS breakpoint Y2	Breakpoint Y2 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
360	Xzone ORS breakpoint Y3	Breakpoint Y3 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
361	Xzone ORS breakpoint Y4	Breakpoint Y4 setting according to the diagram for ORS.	10.00	40.00	°C	21.50	
<b>Xzone ORE Reg.</b>							
364	Xzone ORE breakpoint X1	Breakpoint X1 setting according to the diagram for ORE.	-5.00	AV 365	°C	-20.00	
365	Xzone ORE breakpoint X2	Breakpoint X2 setting according to the diagram for ORE.	AV 364	AV 366	°C	-10.00	
366	Xzone ORE breakpoint X3	Breakpoint X3 setting according to the diagram for ORE.	AV 365	AV 367	°C	10.00	
367	Xzone ORE breakpoint X4	Breakpoint X4 setting according to the diagram for ORE.	AV 366	50.00	°C	20.00	
368	Xzone ORE breakpoint Y1	Breakpoint Y1 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
369	Xzone ORE breakpoint Y2	Breakpoint Y2 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
370	Xzone ORE breakpoint Y3	Breakpoint Y3 setting according to the diagram for ORE.	10.00	40.00	°C	21.50	
371	Xzone ORE breakpoint Y4		10.00	40.00	°C	21.50	
<b>Xzone external sensors</b>							
380	Xzone external room temp from BMS		-55.00	125.00	°C	0.00	
381	Xzone external room temp from BMS alarm time		0	9999	min	5	
<b>Xzone Heat/Cool</b>							
384	Xzone reheat P-band		1.00	40.00	K	8.00	
385	Xzone reheat I-time		1	1800	s	70	
388	Xzone reheat periodic operation interval		0	168	h	24	
389	Xzone reheat periodic operation time		0	60	min	3	
396	Xzone Cool SA neutral zone		0	10.00	K	0.50	
397	Xzone Cool EA neutral zone		0	10.00	K	0.50	
398	Xzone Cool P-band		1.00	40.00	K	6.00	
399	Xzone Cool I-time		1	1800	s	60	
403	Xzone Cool periodic operation interval		0	168	h	24	
404	Xzone Cool periodic operation time		0	60	min	3	
<b>Pre-heat</b>							
411	Pre-heat temperature set point		-40.00	40.00	°C	5.00	
412	Pre-heat P-band		1.00	40.00	K	8.00	
413	Pre-heat I-time		1	1800	s	70	
416	Pre-heat periodic operation interval		0	168	h	24	
417	Pre-heat periodic operation time		0	60	min	3	
<b>ReCO<sub>2</sub></b>							
426	ReCO2-CO2 set point		0.00	100.00	%	50.00	
427	ReCO2 min. outdoor air		0	AI 57	l/s		
428	ReCO2 min. exhaust air		0	AI 58	l/s		
429	ReCO2-CO2 P-band		1.00	100.00	%	50.00	
430	ReCO2-CO2 I-time		1	1800	s	60	
431	ReCO2-CO2 air flow boost reg. P-band		10.00	100.00	%	50.00	
432	ReCO2-CO2 air flow boost reg. I-time		1	1800	s	60	
433	ReCO2 heat P-band		1.00	40.00	K	5.00	
434	ReCO2 heat I-time		1	1800	s	70	
435	ReCO2 cool P-band		1.00	40.00	K	6.00	
436	ReCO2 cool I-time		1	1800	s	60	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Humidity/VOC</b>							
443	Humidifying on/off start level		10.00	AV 444	%RH	40.00	
444	Humidifying on/off stop level		AV 443	95.00	%RH	45.00	
448	Humidifying 0-10V set point		10.00	95.00	%RH	30.00	
449	Humidifying 0-10V SA max set point		10.00	95.00	%RH	80.00	
450	Humidifying 0-10V SA P-band		1.00	80.00	%RH	60.00	
451	Humidifying 0-10V SA I-time		1	1800	s	30	
452	Humidifying 0-10V EA P-band		1.00	80.00	%RH	60.00	
453	Humidifying 0-10V EA I-time		1	1800	s	180	
458	Dehumidifying set point		10.00	90.00	%RH	50.00	
<b>COOL DX</b>							
470	COOL DX Low pressure stop limit		1.00	10.00	Bar	3.00	
471	COOL DX High pressure stop limit		25.00	40.00	Bar	39.00	
472	COOL DX Restart time	Time setting between start - start	5	15	min	5	
<b>SMART Link</b>							
482	SMART Link WB Heat temperature set point		AI 299	AI 300	°C	40.0	
483	SMART Link WB Heat temperature heat zone		1.0	10.0	K	3.0	
484	SMART Link WB Cool temperature set point		AI 301	AI 302	°C	12.0	
485	SMART Link WB Cool temperature heat zone		1.0	10.0	K	2.0	
491	SMART Link WB Optimize valve upper limit		5.0	90.0	%	80.0	
492	SMART Link WB Optimize valve lower limit		70.0	100.0	%	100.0	
493	SMART Link WB Optimize time delay		30	32000	s	60	
494	SMART Link WB Optimize heat regulation speed		0.001	1.000	K/s	0.005	
495	SMART Link WB Optimize cool regulation speed		0.001	1.000	K/s	0.010	
510	SMART Link DX Amount of units		0	4		1	
519	SMART Link OA temp limit		-50.00	50.00	°C	-30.00	1.12

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
AYC							
524	AYC Heated water temp set point		10.00	80.00	°C	30.00	
526	AYC Heated water OA temp for start of pump		-40.00	40.00	°C	15.00	
527	AYC Heated water OA temp for stop of pump		-40.00	40.00	°C	18.00	
532	AYC Heated water periodic operation interval		0	168	h	24	
533	AYC Heated water periodic operation time		0	60	min	3	
537	AYC Heated water OA temp compensation X1		-40.00	AV 538	°C	-20.00	
538	AYC Heated water OA temp compensation X2		AV 537	AV 539	°C	0.00	
539	AYC Heated water OA temp compensation X3		AV 538	AV 540	°C	5.00	
540	AYC Heated water OA temp compensation X4		AV 539	40.00	°C	15.00	
541	AYC Heated water OA temp compensation Y1		10.00	80.00	°C	40.00	
542	AYC Heated water OA temp compensation Y2		10.00	80.00	°C	30.00	
543	AYC Heated water OA temp compensation Y3		10.00	80.00	°C	20.00	
544	AYC Heated water OA temp compensation Y4		10.00	80.00	°C	15.00	
549	AYC Heated water room temp compensation temperature		0.00	40.00	°C	21.00	
550	AYC Heated water room temp compensation P-band		1.00	10.00	K	5.00	
554	AYC Heated water night temp compensation temp		-10.00	10.00	K	-2.00	
556	AYC Heated water night temp compensation start time 1 (hour)		0	23	h	0	
557	AYC Heated water night temp compensation start time 1 (minutes)		0	59	min	0	
558	AYC Heated water night temp compensation stop time 1 (hour)		0	23	h	0	
559	AYC Heated water night temp compensation stop time 1 (minutes)		0	59	min	0	
563	AYC Heated water night temp compensation start time 2 (hour)		0	23	h	0	
564	AYC Heated water night temp compensation start time 2 (minutes)		0	59	min	0	
565	AYC Heated water night temp compensation stop time 2 (hour)		0	23	h	0	
566	AYC Heated water night temp compensation stop time 2 (minutes)		0	59	min	0	
569	AYC Heated water P-band		1.00	40.00	K	15.00	
570	AYC Heated water l-time		1	600	s	60	
572	AYC Chilled water temp set point		10.00	80.00	°C	30.00	
575	AYC Chilled water OA temp for start of pump		-40.00	40.00	°C	15.00	
576	AYC Chilled water OA temp for stop of pump		-40.00	40.00	°C	18.00	
581	AYC Chilled water periodic operation interval		0	168	h	24	
582	AYC Chilled water periodic operation time		0	60	min	3	
586	AYC Chilled water OA temp compensation X1		-40.00	AV 587	°C	-20.00	
587	AYC Chilled water OA temp compensation X2		AV 586	AV 588	°C	0.00	
588	AYC Chilled water OA temp compensation X3		AV 587	AV 589	°C	5.00	
589	AYC Chilled water OA temp compensation X4		AV 588	40.00	°C	15.00	
590	AYC Chilled water OA temp compensation Y1		5.00	30.00	°C	22.00	
591	AYC Chilled water OA temp compensation Y2		5.00	30.00	°C	18.00	
592	AYC Chilled water OA temp compensation Y3		5.00	30.00	°C	14.00	
593	AYC Chilled water OA temp compensation Y4		5.00	30.00	°C	12.00	
598	AYC Chilledwater room temp compensation temperature		0.00	40.00	°C	21.00	
599	AYC Chilled water room temp compensation P-band		1.00	10.00	K	5.00	
603	AYC Chilled water night temp compensation temp		-10.00	10.00	K	-2.00	
605	AYC Chilled water night temp compensation start time 1 (hour)		0	23	h	0	
606	AYC Chilled water night temp compensation start time 1 (minutes)		0	59	min	0	
607	AYC Chilled water night temp compensation stop time 1 (hour)		0	23	h	0	
608	AYC Chilled water night temp compensation stop time 1 (minutes)		0	59	min	0	
612	AYC Chilled water night temp compensation start time 2 (hour)		0	23	h	0	
613	AYC Chilled water night temp compensation start time 2 (minutes)		0	59	min	0	
614	AYC Chilledwater night temp compensation stop time 2 (hour)		0	23	h	0	
615	AYC Chilled water night temp compensation stop time 2 (minutes)		0	59	min	0	



Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
619	AYC Chilled water dew point compensation neutral zone		0	5.00	K	2.00	
620	AYC Chilled water dew point compensation regulation speed	Percent air flow boost of each increased chilled water set point.	0	30.00	%/K	10.00	
623	AYC Chilled water P-band		1.00	40.00	K	15.00	
624	AYC Chilled water I-time		1	600	s	60	
<b>Optimize</b>							
638	Optimize SA pressure set point		20.0	750.0	Pa	0	
639	Optimize EA pressure set point		20.0	750.0	Pa	0	
<b>MIRU Control</b>							
672	MIRU Control 1 Low speed duct pressure set point		0	750	Pa	100	
673	MIRU Control 1 High speed duct pressure set point		0	750	Pa	200	
674	MIRU Control 1 Low speed air flow set point		AI 400	AI 401	l/s		
675	MIRU Control 1 High speed air flow set point		AI 400	AI 401	l/s		
680	MIRU Control 2 Low speed duct pressure set point		0	750	Pa	100	
681	MIRU Control 2 High speed duct pressure set point		0	750	Pa	200	
682	MIRU Control 2 Low speed air flow set point		AI 417	AI 418	l/s		
683	MIRU Control 2 High speed air flow set point		AI 417	AI 418	l/s		
688	MIRU Control 3 Low speed duct pressure set point		0	750	Pa	100	
689	MIRU Control 3 High speed duct pressure set point		0	750	Pa	200	
690	MIRU Control 3 Low speed air flow set point		AI 434	AI 435	l/s		
691	MIRU Control 3 High speed air flow set point		AI 434	AI 435	l/s		
696	MIRU Control 4 Low speed duct pressure set point		0	750	Pa	100	
697	MIRU Control 4 High speed duct pressure set point		0	750	Pa	200	
698	MIRU Control 4 Low speed air flow set point		AI 451	AI 452	l/s		
699	MIRU Control 4 High speed air flow set point		AI 451	AI 452	l/s		
704	MIRU Control 5 Low speed duct pressure set point		0	750	Pa	100	
705	MIRU Control 5 High speed duct pressure set point		0	750	Pa	200	
706	MIRU Control 5 Low speed air flow set point		AI 468	AI 469	l/s		
707	MIRU Control 5 High speed air flow set point		AI 468	AI 469	l/s		
712	MIRU Control 6 Low speed duct pressure set point		0	750	Pa	100	
713	MIRU Control 6 High speed duct pressure set point		0	750	Pa	200	
714	MIRU Control 6 Low speed air flow set point		AI 485	AI 486	l/s		
715	MIRU Control 6 High speed air flow set point		AI 485	AI 486	l/s		
720	MIRU Control 7 Low speed duct pressure set point		0	750	Pa	100	
721	MIRU Control 7 High speed duct pressure set point		0	750	Pa	200	
722	MIRU Control 7 Low speed air flow set point		AI 502	AI 503	l/s		
723	MIRU Control 7 High speed air flow set point		AI 502	AI 503	l/s		
728	MIRU Control 8 Low speed duct pressure set point		0	750	Pa	100	
729	MIRU Control 8 High speed duct pressure set point		0	750	Pa	200	
730	MIRU Control 8 Low speed air flow set point		AI 519	AI 520	l/s		
731	MIRU Control 8 High speed air flow set point		AI 519	AI 520	l/s		
736	MIRU Control 9 Low speed duct pressure set point		0	750	Pa	100	
737	MIRU Control 9 High speed duct pressure set point		0	750	Pa	200	
738	MIRU Control 9 Low speed air flow set point		AI 536	AI 537	l/s		
739	MIRU Control 9 High speed air flow set point		AI 536	AI 537	l/s		
744	MIRU Control 10 Low speed duct pressure set point		0	750	Pa	100	
745	MIRU Control 10 High speed duct pressure set point		0	750	Pa	200	
746	MIRU Control 10 Low speed air flow set point		AI 553	AI 554	l/s		
747	MIRU Control 10 High speed air flow set point		AI 553	AI 554	l/s		

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Operation level/alarm</b>							
1	Operation active	Relay output status	0	1			
2	Damper operation active	Relay output status	0	1			
3	Low speed operation active	Low speed operation status	0	1			
4	High speed operation active	High speed operation status	0	1			
5	Intermittent night heat active		0	1			
6	Morning boost active		0	1			
7	Heating boost active		0	1			
8	Cooling boost active		0	1			
9	Summer night cool active		0	1			
13	A-alarm active	Any alarm with priority class A active	0	1			
14	B-alarm active	Any alarm with priority class B active	0	1			
<b>Heat exchange</b>							
17	HX operation active	HX status	0	1			
18	HX cool recovery active	HX cool recovery status	0	1			
19	HX defrost active	HX defrost status	0	1			
22	RHX speed monitor signal	RHX speed monitor status	0	1			
27	CHX pump output	Relay output status	0	1			
28	CHX pump input	Digital input status	0	1			
<b>AHU Coils</b>							
31	Season heat, extra regulation sequence allowed		0	1			
32	Season heat, re-heat allowed		0	1			
33	Extra regulation sequence 1, output	Relay output status	0	1			
34	Extra regulation sequence 1, power reduction active		0	1			
35	Extra regulation sequence 1, anti-frost regulation active		0	1			
38	Re-heat output	Relay output status	0	1			
39	Re-heat power reduction active		0	1			
40	Re-heat anti-frost regulation active		0	1			
43	Cool output 1	Relay output status	0	1			
44	Cool output 2	Relay output status	0	1			
48	Extra regulation sequence 2, output	Relay output status	0	1			1.13
49	Extra regulation sequence 2, power reduction active		0	1			1.13
50	Extra regulation sequence 2, anti-frost regulation active		0	1			1.13
<b>Pre-heat</b>							
51	Pre-heat output	Relay output status	0	1			
52	Pre-heat power reduction active		0	1			
53	Pre-heat anti-frost regulation active		0	1			
<b>Xzone</b>							
56	Xzone heat output	Relay output status	0	1			
57	Xzone heat power reduction active		0	1			
58	Xzone heat anti-frost regulation active		0	1			
63	Xzone cool output 1	Relay output status	0	1			
64	Xzone cool output 2	Relay output status	0	1			
<b>AYC</b>							
99	AYC heat pump output	Relay output status	0	1			
100	AYC heat pump input	Digital input status	0	1			
104	Max. limit for the supply air fan speed when running in pressure regulation mo	Relay output status	0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
105	AYC cool pump input	Digital input status	0	1			
<b>COOL DX</b>							
109	COOL DX compressor 1 output	Relay output status	0	1			
110	COOL DX compressor 1 input	Digital input status	0	1			
115	COOL DX compressor 2 output	Relay output status	0	1			
116	COOL DX compressor 2 input	Digital input status	0	1			
<b>SMART Link</b>							
319	SMART Link, DX operation		0	1			
323	SMART Link, DX unit 1 operation		0	1			
324	SMART Link, DX unit 1 cool mode		0	1			
325	SMART Link, DX unit 1 defrost request		0	1			
326	SMART Link, DX unit 1 defrost active		0	1			
334	SMART Link, DX unit 2 operation		0	1			
335	SMART Link, DX unit 2 cool mode		0	1			
336	SMART Link, DX unit 2 defrost request		0	1			
337	SMART Link, DX unit 2 defrost active		0	1			
345	SMART Link, DX unit 3 operation		0	1			
346	SMART Link, DX unit 3 cool mode		0	1			
347	SMART Link, DX unit 3 defrost request		0	1			
348	SMART Link, DX unit 3 defrost active		0	1			
356	SMART Link, DX unit 4 operation		0	1			
357	SMART Link, DX unit 4 cool mode		0	1			
358	SMART Link, DX unit 4 defrost request		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
359	SMART Link, DX unit 4 power defrost active		0	1			
<b>Alarms</b>							
501	Alarm 1:1 External fire alarm no. 1 tripped		0	1			
502	Alarm 1:2 External fire alarm no. 2 tripped		0	1			
503	Alarm 1:3 Internal fire alarm tripped		0	1			
516	Alarm 2:1 External alarm no. 1 tripped		0	1			
517	Alarm 2:2 External alarm no. 2 tripped		0	1			
531	Alarm 3:1 Pre-heat I/O-module no. 9 com. error		0	1			
532	Alarm 3:2 Pre-heat electrical heater overheat protection tripped		0	1			
533	Alarm 3:3 Pre-heat frost protection tripped		0	1			
534	Alarm 3:4 Pre-heat frost protection temperature sensor defective		0	1			
535	Alarm 3:5 Pre-heat temperature sensor defective		0	1			
536	Alarm 3:6 Pre-heat valve monitoring tripped		0	1			
537	Alarm 3:7 Pre-heat temperature below set point alarm limit		0	1			
538	Alarm 3:8 Pre-heat alarm input tripped		0	1			
546	Alarm 4:1 Extra reg. sequence 1 I/O-module no. E com. error		0	1			1.13
547	Alarm 4:2 Extra reg. sequence 1 electrical heater overheat protection tripped		0	1			1.13
548	Alarm 4:3 Extra reg. sequence 1 frost protection tripped		0	1			1.13
549	Alarm 4:4 Extra reg. sequence 1 frost protection temperature sensor defective		0	1			1.13
550	Alarm 4:5 Extra reg. sequence 1 valve monitoring tripped		0	1			1.13
551	Alarm 4:6 Extra reg. sequence 1 alarm input tripped		0	1			1.13
552	Alarm 4:7 Extra reg. sequence 1 temperature protection from com. Error		0	1			1.13
554	Alarm 4:9 Extra reg. sequence 2 I/O-module no. F com. error		0	1			1.13
555	Alarm 4:10 Extra reg. sequence 2 electrical heater overheat protection tripped		0	1			1.13
556	Alarm 4:11 Extra reg. sequence 2 frost protection tripped		0	1			1.13
557	Alarm 4:12 Extra reg. sequence 2 frost protection temperature sensor defective		0	1			1.13
558	Alarm 4:13 Extra reg. sequence 2 valve monitoring tripped		0	1			1.13
559	Alarm 4:14 Extra reg. sequence 2 alarm input tripped		0	1			1.13
561	Alarm 5:1 Re-heat electrical heater over heat protection tripped		0	1			
562	Alarm 5:2 Re-heat frost protection tripped		0	1			
563	Alarm 5:3 Re-heat frost protection temperature sensor defective		0	1			
564	Alarm 5:4 Re-heat heat valve monitoring tripped		0	1			
576	Alarm 6:1 Xzone I/O-module no. A com. error		0	1			
577	Alarm 6:2 Xzone electrical heater overheat protection tripped		0	1			
578	Alarm 6:3 Xzone frost protection tripped		0	1			
579	Alarm 6:4 Xzone frost protection temperature sensor defective		0	1			
580	Alarm 6:5 Xzone supply air temperature sensor defective		0	1			
581	Alarm 6:6 Xzone heat valve monitoring tripped		0	1			
582	Alarm 6:7 Xzone supply air temperature below set point alarm limit		0	1			
583	Alarm 6:8 Xzone supply air temperature above set point alarm limit		0	1			
584	Alarm 6:9 Xzone heat alarm input tripped		0	1			
591	Alarm 7:1 Xzone I/O-module no. B com. error		0	1			
592	Alarm 7:2 Xzone extract air temperature sensor defective		0	1			
593	Alarm 7:3 Xzone cool valve monitoring tripped		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
594	Alarm 7:4 Xzone extract air temperature below set point alarm limit		0	1			
595	Alarm 7:5 Xzone cool alarm input 1 tripped		0	1			
596	Alarm 7:6 Xzone cool alarm input 2 tripped		0	1			
610	Alarm 8:5 Cool valve monitoring tripped		0	1			
636	Alarm 10:1 Supply air temperature sensor defective		0	1			
637	Alarm 10:2 Supply air temperature sensor for density compensation defective		0	1			
638	Alarm 10:3 Extract air temperature sensor defective		0	1			
639	Alarm 10:4 Extract air temperature sensor for density compensation defective		0	1			
640	Alarm 10:5 Extract air temperature sensor for heat exchanger defrosting def.		0	1			
641	Alarm 10:6 Extract air temp. sensor for density compensation in SD AHU def.		0	1			
642	Alarm 10:7 Extract air duct temperature sensor defective		0	1			1.13
645	Alarm 10:10 Outdoor air temperature sensor defective		0	1			
651	Alarm 11:1 Room temperature sensor no. 1 defective		0	1			
652	Alarm 11:2 Room temperature sensor no. 2 defective		0	1			
653	Alarm 11:3 Room temperature sensor no. 3 defective		0	1			
654	Alarm 11:4 Room temperature sensor no. 4 defective		0	1			
655	Alarm 11:5 Xzone room temperature sensor no. 5 defective		0	1			
656	Alarm 11:6 Xzone room temperature sensor no. 6 defective		0	1			
657	Alarm 11:7 Xzone room temperature sensor no. 7 defective		0	1			
658	Alarm 11:8 Xzone room temperature sensor no. 8 defective		0	1			
659	Alarm 11:9 Outdoor temperature sensor no. A defective		0	1			
660	Alarm 11:10 Outdoor temperature sensor no. B defective		0	1			
661	Alarm 11:11 Outdoor temperature sensor no. C defective		0	1			
662	Alarm 11:12 Outdoor temperature sensor no. D defective		0	1			
663	Alarm 11:13 Room temperature from com. error		0	1			
664	Alarm 11:14 Xzone room temperature from com. error		0	1			
665	Alarm 11:15 Outdoor temperature from com. error		0	1			
666	Alarm 12:1 Supply air temperature below set point alarm limit		0	1			
667	Alarm 12:2 Supply air temperature above set point alarm limit		0	1			
671	Alarm 12:6 Extract air temperature below alarm limit		0	1			
676	Alarm 12:11 Temperature guard below alarm limit		0	1			
681	Alarm 13:1 Humidification I/O-module no. 4 com. error		0	1			
682	Alarm 13:2 Supply air humidity sensor defective		0	1			
683	Alarm 13:3 Extract air humidity sensor defective		0	1			
689	Alarm 13:9 Humidifier alarm output tripped		0	1			
691	Alarm 13:11 VOC sensor com. error		0	1			
692	Alarm 13:12 VOC sensor internal com. error		0	1			
693	Alarm 13:13 VOC sensor internal error		0	1			
694	Alarm 13:14 VOC sensor level below/above set point alarm limit		0	1			
711	Alarm 15:1 Plate heat exchanger I/O-module no. 2 com. error		0	1			
712	Alarm 15:2 Plate heat exchanger temperature sensor no. 1 defective		0	1			
713	Alarm 15:3 Plate heat exchanger temperature sensor no. 2 defective		0	1			
714	Alarm 15:4 Plate heat exchanger damper monitor tripped		0	1			
717	Alarm 15:7 Plate heat exchanger I/O-module no. 3 com. error		0	1			1.13
718	Alarm 15:8 Plate heat exchanger bypass damper monitor tripped		0	1			1.13

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
719	Alarm 15:9 Plate heat exchanger damper no. 1 monitor tripped		0	1			1.13
720	Alarm 15:10 Plate heat exchanger damper no. 2 monitor tripped		0	1			1.13
721	Alarm 15:11 Plate heat exchanger I/O-module no. 3 com. error		0	1			1.13
722	Alarm 15:12 Plate heat exchanger bypass damper monitor tripped		0	1			1.13
724	Alarm 15:14 Plate heat exchanger defrost pressure sensor no. C com. error		0	1			1.13
725	Alarm 15:15 Plate heat exchanger defrost pressure above alarm limit		0	1			1.13
726	Alarm 16:1 Coil heat exchanger I/O-module no. 1 com. error		0	1			
727	Alarm 16:2 Coil heat exchanger temperature sensor defective		0	1			
728	Alarm 16:3 Coil heat exchanger valve monitor tripped		0	1			
729	Alarm 16:4 Coil heat exchanger pump monitor tripped		0	1			
741	Alarm 17:1 Rotary heat exchanger motor controller com. error		0	1			
742	Alarm 17:2 Rotary heat exchanger defrost pressure sensor no. 7 com. error		0	1			
743	Alarm 17:3 Rotary heat exchanger defrost pressure above alarm limit		0	1			
744	Alarm 17:4 Rotary heat exchanger speed monitor tripped		0	1			
745	Alarm 17:5 Rotary heat exchanger motor controller over current		0	1			
746	Alarm 17:6 Rotary heat exchanger motor controller under voltage		0	1			
747	Alarm 17:7 Rotary heat exchanger motor controller over voltage		0	1			
748	Alarm 17:8 Rotary heat exchanger motor controller over temperature		0	1			
749	Alarm 17:9 Rotary heat exchanger motor controller start error		0	1			
756	Alarm 18:1 AYC I/O-module no. 7 com. error		0	1			
757	Alarm 18:2 AYC heat temperature sensor defective		0	1			
758	Alarm 18:3 AYC heat valve monitor tripped		0	1			
759	Alarm 18:4 AYC heat pump monitor tripped		0	1			
760	Alarm 18:5 AYC heat temperature below set point alarm limit		0	1			
761	Alarm 18:6 AYC heat temperature above set point alarm limit		0	1			
764	Alarm 18:9 AYC cool temperature sensor defective		0	1			
765	Alarm 18:10 AYC cool valve monitor tripped		0	1			
766	Alarm 18:11 AYC cool pump monitor tripped		0	1			
767	Alarm 18:12 AYC cool temperature below set point alarm limit		0	1			
768	Alarm 18:13 AYC cool temperature above set point alarm limit		0	1			
801	Alarm 21:1 COOL DX I/O-module no. 2 com. error		0	1			
802	Alarm 21:2 COOL DX compressor no. 1 low pressure sensor defective		0	1			
803	Alarm 21:3 COOL DX compressor no. 1 low pressure below alarm limit		0	1			
804	Alarm 21:4 COOL DX compressor no. 1 high pressure sensor defective		0	1			
805	Alarm 21:5 COOL DX compressor no. 1 high pressure above alarm limit		0	1			
806	Alarm 21:6 COOL DX compressor no. 1 monitor tripped		0	1			
807	Alarm 21:7 COOL DX compressor no. 1 restart error		0	1			
808	Alarm 21:8 COOL DX compressor no. 2 low pressure sensor defective		0	1			
809	Alarm 21:9 COOL DX compressor no. 2 low pressure below alarm limit		0	1			
810	Alarm 21:10 COOL DX compressor no. 2 high pressure sensor defective		0	1			
811	Alarm 21:11 COOL DX compressor no. 2 high pressure above alarm limit		0	1			
812	Alarm 21:12 COOL DX compressor no. 2 monitor tripped		0	1			
813	Alarm 21:13 COOL DX compressor no. 2 restart error		0	1			
814	Alarm 21:14 COOL DX outdoor air temperature sensor defective		0	1			
815	Alarm 21:15 COOL DX phase sequence error		0	1			
831	Alarm 23:1 SMART Link com. error		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
832	Alarm 23:2 SMART Link alarm level 1 tripped		0	1			
833	Alarm 23:3 SMART Link alarm level 2 tripped		0	1			
834	Alarm 23:4 SMART Link alarm level 3 tripped		0	1			
840	Alarm 23:10 AQUA Link I/O-module no. 5 com. error		0	1			
841	Alarm 23:11 AQUA Link pump monitor tripped		0	1			
846	Alarm 24:1 SMART Link no. 1 com. error		0	1			
847	Alarm 24:2 SMART Link no. 1 alarm tripped		0	1			
849	Alarm 24:4 SMART Link no. 2 com. error		0	1			
850	Alarm 24:5 SMART Link no. 2 alarm tripped		0	1			
852	Alarm 24:7 SMART Link no. 3 com. error		0	1			
853	Alarm 24:8 SMART Link no. 3 alarm tripped		0	1			
855	Alarm 24:10 SMART Link no. 4 com. error		0	1			
856	Alarm 24:11 SMART Link no. 4 alarm tripped		0	1			
876	Alarm 26:1 Pre-filter supply air pressure sensor no.8 com. error		0	1			
877	Alarm 26:2 Pre-filter supply air dirty		0	1			
882	Alarm 26:7 Pre-filter extract air pressure sensor no.9 com. error		0	1			
883	Alarm 26:8 Pre-filter extract air dirty		0	1			
891	Alarm 27:1 AHU filter supply air pressure sensor no. 3/4 com. error		0	1			
892	Alarm 27:2 AHU filter supply air dirty		0	1			
897	Alarm 27:7 AHU filter extract air pressure sensor no. 3/4 com. error		0	1			
898	Alarm 27:8 AHU filter extract air dirty		0	1			
906	Alarm 28:1 End filter supply air pressure sensor no. A com. error		0	1			
907	Alarm 28:2 End filter supply air dirty		0	1			
936	Alarm 30:1 Air flow measurement supply air pressure sensor no. 1/2 com. error		0	1			
937	Alarm 30:2 Air flow measurement supply air flow below set point alarm limit		0	1			
938	Alarm 30:3 Air flow measurement supply air flow above set point alarm limit		0	1			
941	Alarm 30:6 Air flow measurement extract air pressure sensor no. 1/2 com. error		0	1			
942	Alarm 30:7 Air flow measurement extract air flow below set point alarm limit		0	1			
943	Alarm 30:8 Air flow measurement extract air flow above set point alarm limit		0	1			
946	Alarm 30:11 Air flow meas. carry over control press. sensor no. B com. error		0	1			
951	Alarm 31:1 Pressure regulation supply air pressure sensor no. 5 com. error		0	1			
952	Alarm 31:2 Pressure regulation supply air pressure below set point alarm limit		0	1			
953	Alarm 31:3 Pressure regulation supply air pressure above set point alarm limit		0	1			
956	Alarm 31:6 Pressure regulation extract air pressure sensor no. 6 com. error		0	1			
957	Alarm 31:7 Pressure regulation extract air press. below set point alarm limit		0	1			
958	Alarm 31:8 Pressure regulation extract air press. above set point alarm limit		0	1			
966	Alarm 32:1 ReCO2 I/O-module no. 0 com. error		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
967	Alarm 32:2 ReCO2 pressure sensor no. 0 com. error		0	1			
968	Alarm 32:3 ReCO2 recirculation damper monitoring tripped		0	1			
969	Alarm 32:4 ReCO2 outdoor air damper monitoring tripped		0	1			
981	Alarm 33:1 Service period above alarm limit		0	1			
995	Alarm 33:15 Lock function tripped		0	1			
996	Alarm 34:1 External control I/O-module no. 3 com. error		0	1			
997	Alarm 34:2 External control I/O-module no. 6 com. error		0	1			
1011	Alarm 35:1 Booster diffusers I/O-module no. 8 com. error		0	1			
1056	Alarm 38:1 MIRU 1 com. error		0	1			
1057	Alarm 38:2 MIRU 1 motor controller alarm tripped		0	1			
1058	Alarm 38:3 MIRU 1 motor controller com. error		0	1			
1059	Alarm 38:4 MIRU 1 air flow pressure sensor no. 0 com. error		0	1			
1060	Alarm 38:5 MIRU 1 pressure regulation sensor no. 1 com. error		0	1			
1061	Alarm 38:6 MIRU 1 temperature sensor defective		0	1			
1062	Alarm 38:7 MIRU 1 air flow/pressure set point deviation from alarm limit		0	1			
1071	Alarm 39:1 MIRU 2 com. error		0	1			
1072	Alarm 39:2 MIRU 2 motor controller alarm tripped		0	1			
1073	Alarm 39:3 MIRU 2 motor controller com. error		0	1			
1074	Alarm 39:4 MIRU 2 air flow pressure sensor no. 0 com. error		0	1			
1075	Alarm 39:5 MIRU 2 pressure regulation sensor no. 1 com. error		0	1			
1076	Alarm 39:6 MIRU 2 temperature sensor defective		0	1			
1077	Alarm 39:7 MIRU 2 air flow/pressure set point deviation from alarm limit		0	1			
1086	Alarm 40:1 MIRU 3 com. error		0	1			
1087	Alarm 40:2 MIRU 3 motor controller alarm tripped		0	1			
1088	Alarm 40:3 MIRU 3 motor controller com. error		0	1			
1089	Alarm 40:4 MIRU 3 air flow pressure sensor no. 0 com. error		0	1			
1090	Alarm 40:5 MIRU 3 pressure regulation sensor no. 1 com. error		0	1			
1091	Alarm 40:6 MIRU 3 temperature sensor defective		0	1			
1092	Alarm 40:7 MIRU 3 air flow/pressure set point deviation from alarm limit		0	1			
1101	Alarm 41:1 MIRU 4 com. error		0	1			
1102	Alarm 41:2 MIRU 4 motor controller alarm tripped		0	1			
1103	Alarm 41:3 MIRU 4 motor controller com. error		0	1			
1104	Alarm 41:4 MIRU 4 air flow pressure sensor no. 0 com. error		0	1			
1105	Alarm 41:5 MIRU 4 pressure regulation sensor no. 1 com. error		0	1			
1106	Alarm 41:6 MIRU 4 temperature sensor defective		0	1			
1107	Alarm 41:7 MIRU 4 air flow/pressure set point deviation from alarm limit		0	1			
1116	Alarm 42:1 MIRU 5 com. error		0	1			
1117	Alarm 42:2 MIRU 5 motor controller alarm tripped		0	1			
1118	Alarm 42:3 MIRU 5 motor controller com. error		0	1			
1119	Alarm 42:4 MIRU 5 air flow pressure sensor no. 0 com. error		0	1			
1120	Alarm 42:5 MIRU 5 pressure regulation sensor no. 1 com. error		0	1			
1121	Alarm 42:6 MIRU 5 temperature sensor defective		0	1			
1122	Alarm 42:7 MIRU 5 air flow/pressure set point deviation from alarm limit		0	1			
1131	Alarm 43:1 MIRU 6 com. error		0	1			
1132	Alarm 43:2 MIRU 6 motor controller alarm tripped		0	1			
1133	Alarm 43:3 MIRU 6 motor controller com. error		0	1			
1134	Alarm 43:4 MIRU 6 air flow pressure sensor no. 0 com. error		0	1			
1135	Alarm 43:5 MIRU 6 pressure regulation sensor no. 1 com. error		0	1			



Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
1136	Alarm 43:6 MIRU 6 temperature sensor defective		0	1			
1137	Alarm 43:7 MIRU 6 air flow/pressure set point deviation from alarm limit		0	1			
1146	Alarm 44:1 MIRU 7 com. error		0	1			
1147	Alarm 44:2 MIRU 7 motor controller alarm tripped		0	1			
1148	Alarm 44:3 MIRU 7 motor controller com. error		0	1			
1149	Alarm 44:4 MIRU 7 air flow pressure sensor no. 0 com. error		0	1			
1150	Alarm 44:5 MIRU 7 pressure regulation sensor no. 1 com. error		0	1			
1151	Alarm 44:6 MIRU 7 temperature sensor defective		0	1			
1152	Alarm 44:7 MIRU 7 air flow/pressure set point deviation from alarm limit		0	1			
1161	Alarm 45:1 MIRU 8 com. error		0	1			
1162	Alarm 45:2 MIRU 8 motor controller alarm tripped		0	1			
1163	Alarm 45:3 MIRU 8 motor controller com. error		0	1			
1164	Alarm 45:4 MIRU 8 air flow pressure sensor no. 0 com. error		0	1			
1165	Alarm 45:5 MIRU 8 pressure regulation sensor no. 1 com. error		0	1			
1166	Alarm 45:6 MIRU 8 temperature sensor defective		0	1			
1167	Alarm 45:7 MIRU 8 air flow/pressure set point deviation from alarm limit		0	1			
1176	Alarm 46:1 MIRU 9 com. error		0	1			
1177	Alarm 46:2 MIRU 9 motor controller alarm tripped		0	1			
1178	Alarm 46:3 MIRU 9 motor controller com. error		0	1			
1179	Alarm 46:4 MIRU 9 air flow pressure sensor no. 0 com. error		0	1			
1180	Alarm 46:5 MIRU 9 pressure regulation sensor no. 1 com. error		0	1			
1181	Alarm 46:6 MIRU 9 temperature sensor defective		0	1			
1182	Alarm 46:7 MIRU 9 air flow/pressure set point deviation from alarm limit		0	1			
1191	Alarm 47:1 MIRU 10 com. error		0	1			
1192	Alarm 47:2 MIRU 10 motor controller alarm tripped		0	1			
1193	Alarm 47:3 MIRU 10 motor controller com. error		0	1			
1194	Alarm 47:4 MIRU 10 air flow pressure sensor no. 0 com. error		0	1			
1195	Alarm 47:5 MIRU 10 pressure regulation sensor no. 1 com. error		0	1			
1196	Alarm 47:6 MIRU 10 temperature sensor defective		0	1			
1197	Alarm 47:7 MIRU 10 air flow/pressure set point deviation from alarm limit		0	1			
1221	Alarm 49:1 Supply air fan no. 1A com. error		0	1			
1222	Alarm 49:2 Supply air fan no. 1A motor controller over current		0	1			
1223	Alarm 49:3 Supply air fan no. 1A motor controller under voltage		0	1			
1224	Alarm 49:4 Supply air fan no. 1A motor controller over voltage		0	1			
1225	Alarm 49:5 Supply air fan no. 1A motor controller over temperature		0	1			
1226	Alarm 49:6 Supply air fan no. 1A motor controller start error		0	1			
1227	Alarm 49:7 Supply air fan no. 1A motor controller ripple error		0	1			
1228	Alarm 49:8 Supply air fan no. 1A motor controller phase error		0	1			
1229	Alarm 49:9 Supply air fan no. 1A motor controller internal memory error		0	1			
1230	Alarm 49:10 Supply air fan no. 1A motor controller current reduction		0	1			
1236	Alarm 50:1 Supply air fan no. 2A com. error		0	1			
1237	Alarm 50:2 Supply air fan no. 2A motor controller over current		0	1			
1238	Alarm 50:3 Supply air fan no. 2A motor controller under voltage		0	1			
1239	Alarm 50:4 Supply air fan no. 2A motor controller over voltage		0	1			
1240	Alarm 50:5 Supply air fan no. 2A motor controller over temperature		0	1			
1241	Alarm 50:6 Supply air fan no. 2A motor controller start error		0	1			
1242	Alarm 50:7 Supply air fan no. 2A motor controller ripple error		0	1			
1243	Alarm 50:8 Supply air fan no. 2A motor controller phase error		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
1244	Alarm 50:9 Supply air fan no. 2A motor controller internal memory error		0	1			
1245	Alarm 50:10 Supply air fan no. 2A motor controller current reduction		0	1			
1251	Alarm 51:1 Supply air fan no. 3A com. error		0	1			
1252	Alarm 51:2 Supply air fan no. 3A motor controller over current		0	1			
1253	Alarm 51:3 Supply air fan no. 3A motor controller under voltage		0	1			
1254	Alarm 51:4 Supply air fan no. 3A motor controller over voltage		0	1			
1255	Alarm 51:5 Supply air fan no. 3A motor controller over temperature		0	1			
1256	Alarm 51:6 Supply air fan no. 3A motor controller start error		0	1			
1257	Alarm 51:7 Supply air fan no. 3A motor controller ripple error		0	1			
1258	Alarm 51:8 Supply air fan no. 3A motor controller phase error		0	1			
1259	Alarm 51:9 Supply air fan no. 3A motor controller internal memory error		0	1			
1260	Alarm 51:10 Supply air fan no. 3A motor controller current reduction		0	1			
1266	Alarm 52:1 Supply air fan no. 1B com. error		0	1			
1267	Alarm 52:2 Supply air fan no. 1B motor controller over current		0	1			
1268	Alarm 52:3 Supply air fan no. 1B motor controller under voltage		0	1			
1269	Alarm 52:4 Supply air fan no. 1B motor controller over voltage		0	1			
1270	Alarm 52:5 Supply air fan no. 1B motor controller over temperature		0	1			
1271	Alarm 52:6 Supply air fan no. 1B motor controller start error		0	1			
1272	Alarm 52:7 Supply air fan no. 1B motor controller ripple error		0	1			
1273	Alarm 52:8 Supply air fan no. 1B motor controller phase error		0	1			
1274	Alarm 52:9 Supply air fan no. 1B motor controller internal memory error		0	1			
1275	Alarm 52:10 Supply air fan no. 1B motor controller current reduction		0	1			
1281	Alarm 53:1 Supply air fan no. 2B com. error		0	1			
1282	Alarm 53:2 Supply air fan no. 2B motor controller over current		0	1			
1283	Alarm 53:3 Supply air fan no. 2B motor controller under voltage		0	1			
1284	Alarm 53:4 Supply air fan no. 2B motor controller over voltage		0	1			
1285	Alarm 53:5 Supply air fan no. 2B motor controller over temperature		0	1			
1286	Alarm 53:6 Supply air fan no. 2B motor controller start error		0	1			
1287	Alarm 53:7 Supply air fan no. 2B motor controller ripple error		0	1			
1288	Alarm 53:8 Supply air fan no. 2B motor controller phase error		0	1			
1289	Alarm 53:9 Supply air fan no. 2B motor controller internal memory error		0	1			
1290	Alarm 53:10 Supply air fan no. 2B motor controller current reduction		0	1			
1296	Alarm 54:1 Supply air fan no. 3B com. error		0	1			
1297	Alarm 54:2 Supply air fan no. 3B motor controller over current		0	1			
1298	Alarm 54:3 Supply air fan no. 3B motor controller under voltage		0	1			
1299	Alarm 54:4 Supply air fan no. 3B motor controller over voltage		0	1			
1300	Alarm 54:5 Supply air fan no. 3B motor controller over temperature		0	1			
1301	Alarm 54:6 Supply air fan no. 3B motor controller start error		0	1			
1302	Alarm 54:7 Supply air fan no. 3B motor controller ripple error		0	1			
1303	Alarm 54:8 Supply air fan no. 3B motor controller phase error		0	1			
1304	Alarm 54:9 Supply air fan no. 3B motor controller internal memory error		0	1			
1305	Alarm 54:10 Supply air fan no. 3B motor controller current reduction		0	1			
1311	Alarm 55:1 Extract air fan no. 1A com. error		0	1			
1312	Alarm 55:2 Extract air fan no. 1A motor controller over current		0	1			
1313	Alarm 55:3 Extract air fan no. 1A motor controller under voltage		0	1			
1314	Alarm 55:4 Extract air fan no. 1A motor controller over voltage		0	1			
1315	Alarm 55:5 Extract air fan no. 1A motor controller over temperature		0	1			
1316	Alarm 55:6 Extract air fan no. 1A motor controller start error		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
1317	Alarm 55:7 Extract air fan no. 1A motor controller ripple error		0	1			
1318	Alarm 55:8 Extract air fan no. 1A motor controller phase error		0	1			
1319	Alarm 55:9 Extract air fan no. 1A motor controller internal memory error		0	1			
1320	Alarm 55:10 Extract air fan no. 1A motor controller current reduction		0	1			
1326	Alarm 56:1 Extract air fan no. 2A com. error		0	1			
1327	Alarm 56:2 Extract air fan no. 2A motor controller over current		0	1			
1328	Alarm 56:3 Extract air fan no. 2A motor controller under voltage		0	1			
1329	Alarm 56:4 Extract air fan no. 2A motor controller over voltage		0	1			
1330	Alarm 56:5 Extract air fan no. 2A motor controller over temperature		0	1			
1331	Alarm 56:6 Extract air fan no. 2A motor controller start error		0	1			
1332	Alarm 56:7 Extract air fan no. 2A motor controller ripple error		0	1			
1333	Alarm 56:8 Extract air fan no. 2A motor controller phase error		0	1			
1334	Alarm 56:9 Extract air fan no. 2A motor controller internal memory error		0	1			
1335	Alarm 56:10 Extract air fan no. 2A motor controller current reduction		0	1			
1341	Alarm 57:1 Extract air fan no. 3A com. error		0	1			
1342	Alarm 57:2 Extract air fan no. 3A motor controller over current		0	1			
1343	Alarm 57:3 Extract air fan no. 3A motor controller under voltage		0	1			
1344	Alarm 57:4 Extract air fan no. 3A motor controller over voltage		0	1			
1345	Alarm 57:5 Extract air fan no. 3A motor controller over temperature		0	1			
1346	Alarm 57:6 Extract air fan no. 3A motor controller start error		0	1			
1347	Alarm 57:7 Extract air fan no. 3A motor controller ripple error		0	1			
1348	Alarm 57:8 Extract air fan no. 3A motor controller phase error		0	1			
1349	Alarm 57:9 Extract air fan no. 3A motor controller internal memory error		0	1			
1350	Alarm 57:10 Extract air fan no. 3A motor controller current reduction		0	1			
1356	Alarm 58:1 Extract air fan no. 1B com. error		0	1			
1357	Alarm 58:2 Extract air fan no. 1B motor controller over current		0	1			
1358	Alarm 58:3 Extract air fan no. 1B motor controller under voltage		0	1			
1359	Alarm 58:4 Extract air fan no. 1B motor controller over voltage		0	1			
1360	Alarm 58:5 Extract air fan no. 1B motor controller over temperature		0	1			
1361	Alarm 58:6 Extract air fan no. 1B motor controller start error		0	1			
1362	Alarm 58:7 Extract air fan no. 1B motor controller ripple error		0	1			
1363	Alarm 58:8 Extract air fan no. 1B motor controller phase error		0	1			
1364	Alarm 58:9 Extract air fan no. 1B motor controller internal memory error		0	1			
1365	Alarm 58:10 Extract air fan no. 1B motor controller current reduction		0	1			
1371	Alarm 59:1 Extract air fan no. 2B com. error		0	1			
1372	Alarm 59:2 Extract air fan no. 2B motor controller over current		0	1			
1373	Alarm 59:3 Extract air fan no. 2B motor controller under voltage		0	1			
1374	Alarm 59:4 Extract air fan no. 2B motor controller over voltage		0	1			
1375	Alarm 59:5 Extract air fan no. 2B motor controller over temperature		0	1			
1376	Alarm 59:6 Extract air fan no. 2B motor controller start error		0	1			
1377	Alarm 59:7 Extract air fan no. 2B motor controller ripple error		0	1			
1378	Alarm 59:8 Extract air fan no. 2B motor controller phase error		0	1			
1379	Alarm 59:9 Extract air fan no. 2B motor controller internal memory error		0	1			
1380	Alarm 59:10 Extract air fan no. 2B motor controller current reduction		0	1			
1386	Alarm 60:1 Extract air fan no. 3B com. error		0	1			
1387	Alarm 60:2 Extract air fan no. 3B motor controller over current		0	1			
1388	Alarm 60:3 Extract air fan no. 3B motor controller under voltage		0	1			
1389	Alarm 60:4 Extract air fan no. 3B motor controller over voltage		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
1390	Alarm 60:5 Extract air fan no. 3B motor controller over temperature		0	1			
1391	Alarm 60:6 Extract air fan no. 3B motor controller start error		0	1			
1392	Alarm 60:7 Extract air fan no. 3B motor controller ripple error		0	1			
1393	Alarm 60:8 Extract air fan no. 3B motor controller phase error		0	1			
1394	Alarm 60:9 Extract air fan no. 3B motor controller internal memory error		0	1			
1395	Alarm 60:10 Extract air fan no. 3B motor controller current reduction		0	1			
1952	Info 97:12 Plate heat exchanger bypass optimization not performed		0	1			1.13
1953	Info 97:13 Plate heat exchanger bypass optimization not approved		0	1			1.13
1954	Info 97:14 Plate heat exchanger defrost calibration not performed		0	1			1.13
1955	Info 97:15 Plate heat exchanger defrost calibration not approved		0	1			1.13
1956	Info 98:1 Supply air pre-filter calibration not performed		0	1			
1957	Info 98:2 Supply air pre-filter calibration not approved		0	1			
1958	Info 98:3 Extract air pre-filter calibration not performed		0	1			
1959	Info 98:4 Extract air pre-filter calibration not approved		0	1			
1960	Info 98:5 Supply air air handling unit filter calibration not performed		0	1			
1961	Info 98:6 Supply air air handling unit filter calibration not approved		0	1			
1962	Info 98:7 Extract air air handling unit filter calibration not performed		0	1			
1963	Info 98:8 Extract air air handling unit filter calibration not approved		0	1			
1964	Info 98:9 Supply air end filter calibration not performed		0	1			
1965	Info 98:10 Supply air end filter calibration not approved		0	1			
1966	Info 98:11 Rotary heat exchanger defrost calibration not performed		0	1			
1967	Info 98:12 Rotary heat exchanger defrost calibration not approved		0	1			
1968	Info 98:13 ReCO2 calibration not performed		0	1			
1969	Info 98:14 ReCO2 calibration not approved		0	1			
1970	Info 98:15 ReCO2 incorrect setting		0	1			
1971	Info 99:1 E-mail error		0	1			
1977	Info 99:7 SD card memory soon full. Oldest log data will soon be deleted		0	1			
1978	Info 99:8 SD card memory full. Oldest log data deleted		0	1			
1984	Info 99:14 Internal serial memory error CPU 1		0	1			
1985	Info 99:15 Clock circuit defective		0	1			
2001	Active alarm group 1		0	1			
2002	Active alarm group 2		0	1			
2003	Active alarm group 3		0	1			
2004	Active alarm group 4		0	1			
2005	Active alarm group 5		0	1			
2006	Active alarm group 6		0	1			
2007	Active alarm group 7		0	1			
2008	Active alarm group 8		0	1			
2009	Active alarm group 9		0	1			
2010	Active alarm group 10		0	1			
2011	Active alarm group 11		0	1			
2012	Active alarm group 12		0	1			
2013	Active alarm group 13		0	1			
2014	Active alarm group 14		0	1			
2015	Active alarm group 15		0	1			
2016	Active alarm group 16		0	1			
2017	Active alarm group 17		0	1			
2018	Active alarm group 18		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
2019	Active alarm group 19		0	1			
2020	Active alarm group 20		0	1			
2021	Active alarm group 21		0	1			
2022	Active alarm group 22		0	1			
2023	Active alarm group 23		0	1			
2024	Active alarm group 24		0	1			
2025	Active alarm group 25		0	1			
2026	Active alarm group 26		0	1			
2027	Active alarm group 27		0	1			
2028	Active alarm group 28		0	1			
2029	Active alarm group 29		0	1			
2030	Active alarm group 30		0	1			
2031	Active alarm group 31		0	1			
2032	Active alarm group 32		0	1			
2033	Active alarm group 33		0	1			
2034	Active alarm group 34		0	1			
2035	Active alarm group 35		0	1			
2036	Active alarm group 36		0	1			
2037	Active alarm group 37		0	1			
2038	Active alarm group 38		0	1			
2039	Active alarm group 39		0	1			
2040	Active alarm group 40		0	1			
2041	Active alarm group 41		0	1			
2042	Active alarm group 42		0	1			
2043	Active alarm group 43		0	1			
2044	Active alarm group 44		0	1			
2045	Active alarm group 45		0	1			
2046	Active alarm group 46		0	1			
2047	Active alarm group 47		0	1			
2048	Active alarm group 48		0	1			
2049	Active alarm group 49		0	1			
2050	Active alarm group 50		0	1			
2051	Active alarm group 51		0	1			
2052	Active alarm group 52		0	1			
2053	Active alarm group 53		0	1			
2054	Active alarm group 54		0	1			
2055	Active alarm group 55		0	1			
2056	Active alarm group 56		0	1			
2057	Active alarm group 57		0	1			
2058	Active alarm group 58		0	1			
2059	Active alarm group 59		0	1			
2060	Active alarm group 60		0	1			
2061	Active alarm group 61		0	1			
2062	Active alarm group 62		0	1			
2063	Active alarm group 63		0	1			
2064	Active alarm group 64		0	1			
2065	Active alarm group 65		0	1			
2066	Active alarm group 66		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
2067	Active alarm group 67		0	1			
2068	Active alarm group 68		0	1			
2069	Active alarm group 69		0	1			
2070	Active alarm group 70		0	1			
2071	Active alarm group 71		0	1			
2072	Active alarm group 72		0	1			
2073	Active alarm group 73		0	1			
2074	Active alarm group 74		0	1			
2075	Active alarm group 75		0	1			
2076	Active alarm group 76		0	1			
2077	Active alarm group 77		0	1			
2078	Active alarm group 78		0	1			
2079	Active alarm group 79		0	1			
2080	Active alarm group 80		0	1			
2081	Active alarm group 81		0	1			
2082	Active alarm group 82		0	1			
2083	Active alarm group 83		0	1			
2084	Active alarm group 84		0	1			
2085	Active alarm group 85		0	1			
2086	Active alarm group 86		0	1			
2087	Active alarm group 87		0	1			
2088	Active alarm group 88		0	1			
2089	Active alarm group 89		0	1			
2090	Active alarm group 90		0	1			
2091	Active alarm group 91		0	1			
2092	Active alarm group 92		0	1			
2093	Active alarm group 93		0	1			
2094	Active alarm group 94		0	1			
2095	Active alarm group 95		0	1			
2096	Active alarm group 96		0	1			
2097	Active alarm group 97		0	1			
2098	Active alarm group 98		0	1			
2099	Active alarm group 99		0	1			

## Binary Output (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
AHU fan regulation							
1	Booster diffusers	Booster diffusers function.	0	1			

## Binary Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Alarm settings</b>							
1	Alarm reset	Resets all active alarms	0	1		0	
3	Internal fire alarm function		0	1		0	
<b>Pressure sensors zero point calibration</b>							
29	SA flow pressure sensor auto zero calibration		0	1		1	
30	EA flow pressure sensor auto zero calibration		0	1		1	
31	SA duct pressure sensor auto zero calibration		0	1		1	
32	EA duct pressure sensor auto zero calibration		0	1		1	
33	ReCO2 pressure sensor auto zero calibration		0	1		1	
34	RHX defrost pressure sensor auto calibration		0	1		1	
35	Carry over control pressure sensor auto calibration		0	1		1	
36	SA filter pressure sensor auto zero calibration		0	1		1	
37	EA filter pressure sensor auto zero calibration		0	1		1	
38	SA pre-filter pressure sensor auto zero calibration		0	1		1	
39	EA pre-filter pressure sensor auto zero calibration		0	1		1	
40	SA end-filter pressure sensor auto zero calibration		0	1		1	
46	SA flow pressure sensor activate zero calibration	If value is set to 1 for min 1s calibration will be performed.	0	1		0	
47	EA flow pressure sensor activate zero calibration		0	1		0	
48	SA duct pressure sensor activate zero calibration		0	1		0	
49	EA duct pressure sensor activate zero calibration		0	1		0	
50	ReCO2 pressure sensor activate calibration		0	1		0	
51	RHX Defrost pressure sensor activate calibration		0	1		0	
52	Carry over control pressure sensor activate zero calibration		0	1		0	
53	SA filter pressure sensor activate zero calibration		0	1		0	
54	EA filter pressure sensor activate zero calibration		0	1		0	
55	SA pre-filter pressure sensor activate zero calibration		0	1		0	
56	EA pre-filter pressure sensor activate zero calibration		0	1		0	
57	SA end-filter pressure sensor activate zero calibration		0	1		0	
<b>AHU external sensors</b>							
162	External room sensor 1 function		0	1		0	
163	External room sensor 2 function		0	1		0	
164	External room sensor 3 function		0	1		0	
165	External room sensor 4 function		0	1		0	
167	External room temp from BMS function		0	1		0	
172	External OA sensor 1 function		0	1		0	
173	External OA sensor 2 function		0	1		0	
174	External OA sensor 3 function		0	1		0	
175	External OA sensor 4 function		0	1		0	
177	External OA temp from BMS function		0	1		0	
<b>AHU Heat exchange</b>							
182	RHX defrost function	Setting for activating the defrost function for the rotary heat exchanger.	0	1		0	
183	RHX defrost calibration		0	1		0	
187	RHX carry over control function	Setting for activating the carry over control function for the rotary heat exchanger.	0	1		0	
190	RHX min exhaust air temp function		0	1		0	
198	PHX periodic operation of bypass damper function		0	1		1	
201	PX bypass optimize		0	1		0	1.13
205	CHX periodic operation of pump function		0	1		1	
206	CHX periodic operation of valve function		0	1		1	



## Binary Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU Heat/Cool</b>							
228	Re-heat periodic operation of pump function		0	1		1	
229	Re-heat periodic operation of valve function		0	1		1	
245	Extra regulation 1 periodic operation of pump function		0	1		1	
246	Extra regulation 1 periodic operation of valve function		0	1		1	
274	Cool relay 1 periodic operation of pump function		0	1		0	
275	Cool relay 2 periodic operation of pump function		0	1		0	
276	Cool periodic operation of valve function		0	1		0	
<b>Summer night cool/Intermittent night heat /Morning boost</b>							
284	Summer night cool function		0	1		0	
296	Intermittent night heat function		0	1		0	
302	Intermittent night heat recirculation function		0	1		1	1.12
305	Morning boost function		0	1		0	
<b>Cooling boost/heating boost</b>							
320	Heating boost function		0	1		0	
<b>Xzone function</b>							
325	Xzone heat function		0	1		0	
327	Xzone cool function		0	1		0	
<b>Xzone external sensors</b>							
374	Xzone external room sensor 1 function		0	1		0	
375	Xzone external room sensor 2 function		0	1		0	
376	Xzone external room sensor 3 function		0	1		0	
377	Xzone external room sensor 4 function		0	1		0	
379	Xzone external room temp from BMS function		0	1		0	
<b>Xzone Heat/Cool</b>							
386	Xzone reheat periodic operation of pump function		0	1		1	
387	Xzone reheat periodic operation of valve function		0	1		1	
400	Xzone Cool relay 1 periodic operation of pump function		0	1		0	
401	Xzone Cool relay 2 periodic operation of pump function		0	1		0	
402	Xzone Cool periodic operation of valve function		0	1		0	
<b>Pre-heat</b>							
410	Pre-heat function		0	1		0	
414	Pre-heat periodic operation of pump function		0	1		1	
415	Pre-heat periodic operation of valve function		0	1		1	
<b>ReCO<sub>2</sub></b>							
425	ReCO <sub>2</sub> Calibration		0	1		0	
<b>Humidity/VOC</b>							
457	Dehumidifying function	Moved to Multistate Value 457	0	1		1	1.12
459	Heat exchange active in dehumidifying sequence		0	1		0	
465	VOC sensor function		0	1		0	
<b>SMART Link</b>							
490	SMART Link WB Optimize function		0	1		0	
504	AQUA Link Function		0	1		0	

Binary Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AYC</b>							
530	AYC Heated water periodic operation of pump		0	1		1	
531	AYC Heated water periodic operation of valve		0	1		0	
536	AYC Heated water OA temp compensation		0	1		0	
547	AYC Heated water room temp compensation function		0	1		0	
548	AYC Heated water room temp compensation at night	0=Enabled during night, 1=Disabled during night	0	1		0	
553	AYC Heated water night temp compensation function		0	1		0	
579	AYC Chilled water periodic operation of pump		0	1		1	
580	AYC Chilled water periodic operation of valve		0	1		0	
585	AYC Chilled water OA temp compensation		0	1		0	
596	AYC Chilled water room temp compensation function		0	1		0	
597	AYC Chilled water room temp compensation at night	0=Enabled during night, 1=Disabled during night	0	1		0	
602	AYC Chilled water night temp compensation function		0	1		0	
618	AYC Chilled water dew point compensation air flow boost		0	1		0	
<b>Optimize</b>							
637	Optimize function		0	1		0	

## Calendar

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
0	Calendar #1	DateList: max. 10 entries with dates from 1.1.2000 to 31.12.2099.					
1	Calendar #2	DateList: max. 10 entries with dates from 1.1.2000 to 31.12.2099.					

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU Air flow/duct pressure</b>							
2	Application id/AHU Type	State text. 1=GOLD RX 2=GOLD PX 3=GOLD CX 4=GOLD SD/SA 5=GOLD SD/EA 6=GOLD SD/SA+CX 7=GOLD SD/SA+EA 8=GOLD SD/SA+EA+CX	1	8			
3	Air flow direction	State text. 1=Fan no.2 as SA 2=Fan no.1 as SA	1	2			
<b>AHU heat exchange</b>							
115	PHX type	State text. 1=PHX-1 1D HS (one damper and humidity sensor) 2=PHX-2 3D (three dampers) 3=PHX-3 1D 1PS (one damper and pressure sensor)	1	3			1.16
<b>AHU Coils</b>							
140	Extra regulation sequence 1 coil type	State text. 1=None 2=1 Electric 3=2 Electric 4=3 Electric 5=4 Electric 6=5 Electric 7=6 Electric 8=7 Electric 9=8 Electric 10=9 Water 11=10 Water 12=11 Electric 13=12 Electric 14=13 Electric 15=14 Electric 16=15 Electric	1	16			

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
142	Extra regulation sequence 2 coil type	State text. 1=None 2=1 Electric 3=2 Electric 4=3 Electric 5=4 Electric 6=5 Electric 7=6 Electric 8=7 Electric 9=8 Electric 10=9 Water 11=10 Water 12=11 Electric 13=12 Electric 14=13 Electric 15=14 Electric 16=15 Electric	1	16			1.13
152	Re-heat coil type	State text. 1=None 2=1 Electric 3=2 Electric 4=3 Electric 5=4 Electric 6=5 Electric 7=6 Electric 8=7 Electric 9=8 Electric 10=9 Water 11=10 Water 12=11 Electric 13=12 Electric 14=13 Electric 15=14 Electric 16=15 Electric	1	16			

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
163	Cool coil type	State text. 1=None 2=1 Electric 3=2 Electric 4=3 Electric 5=4 Electric 6=5 Electric 7=6 Electric 8=7 Electric 9=8 Electric 10=9 Water 11=10 Water 12=11 Electric 13=12 Electric 14=13 Electric 15=14 Electric 16=15 Electric	1	16			
<b>Xzone coils</b>							
198	Xzone heat, coil type	State text. 1=None 2=1 Electric 3=2 Electric 4=3 Electric 5=4 Electric 6=5 Electric 7=6 Electric 8=7 Electric 9=8 Electric 10=9 Water 11=10 Water 12=11 Electric 13=12 Electric 14=13 Electric 15=14 Electric 16=15 Electric	1	16			

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
209	Xzone cool, coil type	State text. 1=None 2=1 Not used 3=2 Not used 4=3 Not used 5=4 Not used 6=5 Not used 7=6 Not used 8=7 Not used 9=8 Not used 10=9 Water 11=10 Water 12=11 Not used 13=12 Not used 14=13 Not used 15=14 Not used 16=15 Not used	1	16			
<b>Pre-heat</b>							
224	Pre-heat coil type	State text. 1=None 2=1 Electric 3=2 Electric 4=3 Electric 5=4 Electric 6=5 Electric 7=6 Electric 8=7 Electric 9=8 Electric 10=9 Water 11=10 Water 12=11 Electric 13=12 Electric 14=13 Electric 15=14 Electric 16=15 Electric	1	16			
<b>SMART Link</b>							
320	SMART Link, DX cool mode	State text. 1=Heat 2=Cool	1	2			

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Operation level</b>							
592	Operation level	State text. 1=Fan not available 2=Alarm stop 3=Manual total stop (on hand terminal) 4=External total stop (digital input) 5=Communication total stop 6=Communication normal stop 7=Communication extended normal stop 8=Time channel total stop 9=Time channel normal stop 10=Time channel extended normal stop 11=Low speed=normal stop 12=SA Fan starting up 13=Fan regulation blocked 14=ReCO2 100% recirculation(1.11) 15=Morning boost stop(1.11) 16=Intermittent night heat stop(1.11) 17=After cooling electric heater 18=COOL DX switch off delay 19=Damper switch off delay 20=Manual low speed (on hand terminal) 21=External low speed (digital input) 22=Extended external low speed 23=Communication low speed 24=Time channel low speed 25=Morning boost low speed 26=Intermittent night heat low speed 27=Manual high speed (on hand terminal) 28=External high speed (digital input) 29=Extended external high speed 30=Communication high speed 31=Time channel high speed 32=Summer night cooling high speed 33=Filter calibration 34=RHX Defrost calibration 35=ReCO2 calibration 36=AHU start up 37=Re-heat ramp down 38=HX ramp down 39=Air adjustment 40=Fans in operation with active fire alarm 41=PX bypass damper adjustment(1.12)	1	41			1.12



Multistate Output (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
AHU fan regulation							
1	Boost Supply air	State text. 1=Off 2=On	1	2		1	
2	Boost Extract air	State text. 1=Off 2=On	1	2		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU fan regulation</b>							
1	SA Fan regulation mode	Setting of regulation type for the supply air fan. State text. 1=Air flow reg. 2=Pressure reg. 3=Demand reg. 4=Slave controlled by EA fan	1	4		1	
2	EA Fan regulation mode	Setting of regulation type for the extract air fan. State text. 1=Air flow reg. 2=Pressure reg. 3=Demand reg. 4=Slave controlled by SA fan	1	4		1	
<b>Alarm settings</b>							
4	Internal fire alarm reset function	State text. 1=Manual reset 2=Auto reset	1	2		1	
7	External fire alarm no. 1 reset function	State text. 1=Manual reset 2=Auto reset	1	2		1	
8	External fire alarm no. 2 reset function	State text. 1=Manual reset 2=Auto reset	1	2		1	
11	External alarm no. 1 reset function	State text. 1=Manual reset 2=Auto reset	1	2		1	
12	External alarm no. 2 reset function	State text. 1=Manual reset 2=Auto reset	1	2		1	
15	External alarm no. 1 input function	State text. 1=Alarm at closed contact 2=Alarm at open contact	1	2		1	
16	External alarm no. 2 input function	State text. 1=Alarm at closed contact 2=Alarm at open contact	1	2		1	
<b>Fans OA temp compensation</b>							
53	Outdoor temp compensation function	State text. 1=Inactive 2=Active at low speed 3=Active at high speed 4=Active at low and high speed	1	4		1	
<b>Fans down regulation</b>							
78	Down regulation function	State text. 1=Inactive 2=SA 3=SA and EA	1	3		2	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Fans in operation at active fire alarm</b>							
84	Fans in operation at fire alarm 1 function	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4		1	
87	Fans in operation at fire alarm 2 function	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4		1	
90	Fans in operation at internal fire alarm function	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4		1	
<b>Filters</b>							
95	Pre-filter function	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4		1	
96	Pre-filter calibration	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4		1	
101	AHU filter function	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4			
102	AHU filter calibration	State text. 1=Inactive 2=SA 3=EA 4=SA and EA	1	4		1	
107	SA end filter function	State text. 1=Inactive 2=SA	1	2			
108	SA end filter calibration	State text. 1=Inactive 2=SA	1	2		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>AHU Temperature regulation</b>							
115	Temperature regulation mode	State text. 1=Inactive 2=ERS-1 3=ERS-2 4=SA 5=EA 6=ORS 7=ORE	1	7		4	
<b>AHU external sensors</b>							
166	External room sensors measurement function	State text. 1=Average 2=Min 3=Max	1	3		1	
176	External OA sensors measurement function	State text. 1=Average 2=Min 3=Max	1	3		1	
<b>AHU Heat exchange</b>							
188	RHX sorption rotor function	Setting for activating the sorption rotor control function for the rotary heat exchanger. State text. 1=Inactive 2=Sorption max at cool 3=Sorption always max	1	3		1	1.16
<b>AHU Heat/Cool</b>							
237	Extra regulation sequence 1 function	State text 1=Inactive 2=Heat 3=Cool 4=Heat and Cool	1	4		1	
238	Extra regulation sequence 1 output function	State text. 1=0-10V 2=10-0V	1	2		1	
251	Extra regulation 1 temperature protection function	State text. 1=Inactive 2=Active	1	2		1	
254	Season heat function	State text. 1=Inactive 2=Extra regulation sequence at closed input 3=Extra regulation sequence at open input 4=Manual mode	1	4		1	
255	Season heat manual setting	State text. 1=Re-heat 2=Extra regulation sequence	1	2		1	
261	Cool on/off regulation function	State text. 1=Inactive 2=1 step 3=2 steps 4=3 steps	1	4		1	
<b>Cooling boost/heating boost</b>							

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
313	Cooling boost function	State text. 1=Inactive 2=Comfort 3=Economy 4=Sequence 5=Comfort and Economy 6=Economy and Sequence	1	6		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>Xzone temperature regulation</b>							
329	Xzone temperature regulation mode	State text. 1=Inactive 2=ERS-1 3=ERS-2 4=SA 5=EA 6=ORS 7=ORE	1	7		1	
<b>Xzone external sensors</b>							
378	Xzone external room sensors measurement function	State text. 1=Average 2=Min 3=Max	1	3		1	
<b>Xzone Heat/Cool</b>							
395	Xzone Cool on/off regulation function	State text. 1=Inactive 2=1 step 3=2 steps 4=3 steps	1	4		1	
<b>ReCO<sub>2</sub></b>							
423	ReCO2-CO2 function	State text. 1=Inactive 2=CO2 3=CO2 and air flow boost	1	3		1	
424	ReCO2 temperature regulation sequence function	State text. 1=Inactive 2=Heat 3=Cool 4=Heat and Cool	1	4		1	
<b>Humidity/VOC</b>							
441	Humidifying function	State text. 1=Inactive 2=On/Off 3=0-10V	1	3		1	
442	Humidifying sensor	State text. 1=SA 2=EA	1	2		1	
457	DeHumidifying function	0=Inactive, 1=SA, 2=EA	0	2		1	1.12
<b>COOL DX</b>							
469	COOL DX Function	State text. 1=Inactive 2=Economy 3=Comfort 4=Top	1	4		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
<b>SMART Link</b>							
481	SMART Link Function	State text. 1=Inactive 2=Water based heat pump 3=Water based chiller 4=Water based reversible 5=DX based heat pump 6=DX based chiller 7=DX based reversible	1	7		1	
505	AQUA Link Pump alarm function	State text. 1=Inactive 2=Alarm at closed contact 3=Alarm at open contact 4=Alarm when in -and output are unequal (contactor function)	1	4			
<b>AYC</b>							
521	AYC Function	State text. 1=Inactive 2=Chilled water 3=Heated water 4=Chilled and heated water	1	4		1	
528	AYC Heated water signal monitor function for pump	State text. 1=Inactive 2=Alarm at open contact 3=Alarm at closed contact 4=Contactor function	1	4		1	
555	AYC Heated water night temp compensation time 1 (days)	State text. 1=Inactive 2=Monday 3=Tuesday 4=Wednesday 5=Thursday 6=Friday 7=Saturday 8=Sunday 9=Monday to Friday 10= Monday to Sunday 11=Saturday to Sunday	1	11		1	
562	AYC Heated water night temp compensation time 2 (days)	State text. 1=Inactive 2=Monday 3=Tuesday 4=Wednesday 5=Thursday 6=Friday 7=Saturday 8=Sunday 9=Monday to Friday 10= Monday to Sunday 11=Saturday to Sunday	1	11		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
577	AYC Chilled water signal monitor function for pump	State text. 1=Inactive 2=Alarm at open contact 3=Alarm at closed contact 4=Contactor function	1	4		1	
604	AYC Chilled water night temp compensation time 1 (days)	State text. 1=Inactive 2=Monday 3=Tuesday 4=Wednesday 5=Thursday 6=Friday 7=Saturday 8=Sunday 9=Monday to Friday 10= Monday to Sunday 11=Saturday to Sunday	1	11		1	
611	AYC Chilled water night temp compensation time 2 (days)	State text. 1=Inactive 2=Monday 3=Tuesday 4=Wednesday 5=Thursday 6=Friday 7=Saturday 8=Sunday 9=Monday to Friday 10= Monday to Sunday 11=Saturday to Sunday	1	11		1	
<b>MIRU Control</b>							
660	MIRU Control 1 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
661	MIRU Control 2 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
662	MIRU Control 3 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
663	MIRU Control 4 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	



Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
664	MIRU Control 5 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
665	MIRU Control 6 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
666	MIRU Control 7 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
667	MIRU Control 8 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
668	MIRU Control 9 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
669	MIRU Control 10 function	State text. 1=Inactive 2=Parallel start 3=Parallel low / high speed 4=Parallel start and Low / high speed	1	4		1	
671	MIRU Control 1 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
679	MIRU Control 2 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
687	MIRU Control 3 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
695	MIRU Control 4 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
703	MIRU Control 5 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
711	MIRU Control 6 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
719	MIRU Control 7 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
727	MIRU Control 8 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
735	MIRU Control 9 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
743	MIRU Control 10 Balanced air flow function	State text. 1=Inactive 2=SA 3=EA	1	3		1	
<b>Operation level settings</b>							
793	Communication operation level	State text. 1=Auto 2=Total stop 3=Low speed 4=High speed 5=Normal stop 6=Extended normal stop	1	6		1	

**Notification Class**

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
0	NC 00 A-Alarm	Notification Class 00 for AHU A-Alarm.					
1	NC 01 B-Alarm	Notification Class 01 for AHU B-Alarm.					
3	NC 03 Alarms specified in BACnet	Notification Class 03 for alarms specified in BACnet objects.					
10	NC 10 Info message	Notification Class 10 for AHU Info message.					
11	NC 11 Events specified in BACnet	Notification Class 11 for events specified in BACnet objects.					

Schedule

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
0	Schedule #1	Weekly_Schedule: max. 6 Time-Values per day. Exception_Schedule: max. 2 entries with 6 Time-Values each. The value-range is a value(Unsigned) between 1-5, the time-range is from 00:00 to 23:59, where seconds and hundredths of seconds must be set to zero. 1=Total stop 2=Low speed 3=High speed 4=Normal stop 5=Extended normal stop					