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 1.23 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
	DS-COVP-B	Data Sharing-COV Property-B
Alarm&Event Management	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
	AE-ESUM-B	Alarm&Event-Enrollment Summary -B
Scheduling	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.

Operation level	MI 592
Communication operation level	MV 793
Operation active	BI 1
Low speed operation active	BI 3
High speed operation active	BI 4
Damper operation active	BI 2
Triggered alarm #1	AI 604
A-alarm active	BI 13
B-alarm active	BI 14
Alarm reset	BV 1

EA AHU filter pressure level	AI 29
EA AHU filter pressure alarm limit	AI 30

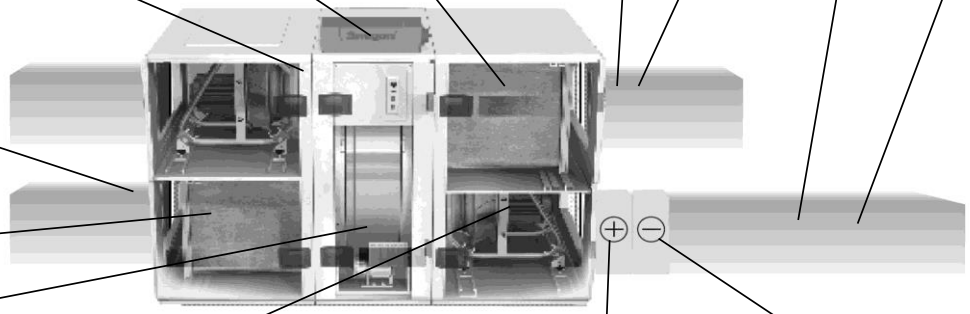
EA Duct pressure	AI 10
EA low speed pressure set point	AV 20
EA high speed pressure set point	AV 22

EA Temperature	AI 66
EA/Room temperature set point	AV 135
SA min temp set point	AV 136
SA max temp set point	AV 137

SA Duct pressure	AI 8
SA low speed pressure set point	AV 19
SA high speed pressure set point	AV 21

SA Temperature	AI 64
SA temperature set point	AV 132
ERS 1 diff	AV 118

EA Air flow	AI 6
EA Fan level	AI 38
EA low speed air flow set point	AV 4
EA high speed air flow set point	AV 6



Outdoor temperature	AI 73

SA AHU filter pressure level	AI 27
SA AHU filter pressure alarm limit	AI 28

Heat exchanger regulator level	AI 91
RHX operation level	AI105

SA Air flow	AI 4
SA Fan level	AI 37
SA low speed air flow set point	AV 3
SA high speed air flow set point	AV 5

Reheat regulator level	AI 94
Re-heat output	BI 38
Re-heat anti frost temp/overheat i	AI 153

Cool regulator level	AI 101
Cool output 1	BI 43
Cool output 2	BI 44

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU Air flow/duct pressure					
1	**Component name**	25=IQlogic	0	999			
		Air flow regulation					
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		
		Pressure regulation					
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		
		Demand regulation					
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	%		
		Air flow pressure sensors					
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		
		Demand regulation					
18	**Demand CO2 regulator**	Present demand CO2 regulator set point.	0	10000	ppm		1.23
19	**Demand VOC regulator**	Present demand VOC regulator set point.	0	10000	ppm		1.23
		Filters					
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
		Fans					
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.	0.00	100.00	kW/m3/s		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU Temperature sensors					
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 (only AHU type RX).	-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		
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		
		AHU Temperature regulation					
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 $ReCO_2$ 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 $ReCO_2$ heat.	0.00	100.00	%		
104	**Cooling boost level**	Present level of cooling boost.	0.00	100.00	%		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU heat exchange					
105	**RHX operation level**	Present speed level of the rotary heat exchanger.	0.00	100.00	%		
106	**RHX/PHX/CHX efficiency**	Calculated level of the heat exchanger efficiency.	0.00	100.00	%		1.23
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-1 Valve output**	Present level of coil heat exchanger valve output.	0.00	100.00	%		
128	**CHX-1 Valve input**	Present level of coil heat exchanger valve input.	0.00	100.00	%		
129	**CHX-1 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
134	**CHX-2 Return water temperature**	Present return water temperature for coil heat exchanger.	-55.00	125.00	°C		1.18
135	**CHX-2 Extract coil pressure level**	Present extract coil differiential pressure.	0	1600	mBar		1.18
136	**PHX/CHX Humidity level**	PHX-1/2: Present level of air-humidity for calculation of bypass/valve limitation.	0.00	100.00	%		
137	**CHX-2 Valve output**	Present level of coil heat exchanger valve output.	0.00	100.00	%		1.18
138	**CHX-2 Valve input**	Present level of coil heat exchanger valve input.	0.00	100.00	%		1.18
139	**CHX-2 Pump output**	Present level of pump heat exchanger output	0.00	100.00	%		1.18

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU Coils					
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		
		Xzone temperature sensors					
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		
		Xzone Temperature regulation					
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	%		
		Xzone coils					
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		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Pre-heat					
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		
		ReCO$_2$					
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		
		Humidity					
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	%		
260	Exhaust air humidity	Present level of exhaust air humidity.	0.00	100.00	%RH		1.23
261	Exhaust air temperature	Present temperature inside the exhaust air humidity sensor.	-40.00	123.00	°C		1.23
		VOC					
266	VOC level	Present level of VOC	450	10000	ppm		
267	CO2 level	Present level of CO2	0	10000	ppm		1.23
		COOL DX					
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		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		SMART Link					
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		
		AYC					
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	%		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		MIRU Control					
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	$kW/m^3/s$		
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	$kW/m^3/s$		
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		
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	$kW/m^3/s$		
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		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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	$kW/m^3/s$		
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	$kW/m^3/s$		
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	$kW/m^3/s$		
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		
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	$kW/m^3/s$		
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		

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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	$kW/m^3/s$		
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	$kW/m^3/s$		
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	$kW/m^3/s$		
564	**MIRU Control 10 kWh**	kWh value.	0	9999	kWh		
565	**MIRU Control 10 MWh**	MWh value.	0	32000	MWh		
		Software					
570	**IQlogic software version**	Present controller software version	0.00	99.00			

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Alarms					
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			
		Time schedule					
661	Prolonged low speed remaining hours	Prolonged external low speed remaining operation.	0	23			1.13
662	Prolonged low speed remaining seconds	Prolonged external low speed remaining operation.	0	3600			1.13
663	Prolonged high speed remaining hours	Prolonged external high speed remaining operation.	0	23			1.13
664	Prolonged high speed remaining seconds	Prolonged external high speed remaining operation.	0	3600			1.13
		Reserved					
700	Extra regulation sequence 2 heat regulator level	Present level of extra regulation heat.	0.00	100.00	%		1.13
701	Extra regulation sequence 2 heat output level	Present level of extra regulation heat.	0.00	100.00	%		1.13
702	Extra regulation sequence 2 cool regulator level	Present level of extra regulation cool.	0.00	100.00	%		1.13
703	Extra regulation sequence 2 cool output level	Present level of extra regulation cool.	0.00	100.00	%		1.13
704	Re-heat retention at stop		0.00	40.00	°C		1.20
705	Re-heat retention at operation		0.00	40.00	°C		1.20
706	Re-heat frost protection alarm limit		0.00	40.00	°C		1.20
707	Pre-heat retention at stop		0.00	40.00	°C		1.20
708	Pre-heat retention at operation		0.00	40.00	°C		1.20
709	Pre-heat frost protection alarm limit		0.00	40.00	°C		1.20
710	Xzone heat retention at stop		0.00	40.00	°C		1.20
711	Xzone heat retention at operation		0.00	40.00	°C		1.20
712	Xzone frost protection alarm limit		0.00	40.00	°C		1.20
713	Extra regulation sequence 1 heat retention at stop		0.00	40.00	°C		1.20
714	Extra regulation sequence 1 heat retention at operation		0.00	40.00	°C		1.20
715	Extra regulation sequence 1 frost protection alarm limit		0.00	40.00	°C		1.20
716	Extra regulation sequence 2 heat retention at stop		0.00	40.00	°C		1.20
717	Extra regulation sequence 2 heat retention at operation		0.00	40.00	°C		1.20
718	Extra regulation sequence 2 frost protection alarm limit		0.00	40.00	°C		1.20

Analog Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		BMS I/O-modules					
800	**External operation I/O-module 3, analogue input 1**		0.00	100.00	%		1.20
801	**External operation I/O-module 3, analogue input 2**		0.00	100.00	%		1.20
804	**External operation I/O-module 3, analogue output 1**		0.00	100.00	%		1.20
805	**External operation I/O-module 3, analogue output 2**		0.00	100.00	%		1.20
806	**External operation I/O-module 6, analogue input 1**		0.00	100.00	%		1.20
807	**External operation I/O-module 6, analogue input 2**		0.00	100.00	%		1.20
810	**External operation I/O-module 6, analogue output 1**		0.00	100.00	%		1.20
811	**External operation I/O-module 6, analogue output 2**		0.00	100.00	%		1.20
812	**External operation I/O-module A, analogue input**		0.00	100.00	%		1.20
813	**External operation I/O-module A, temp sensor 1**		-55.00	125.00	°C		1.20
814	**External operation I/O-module A, temp sensor 2**		-55.00	125.00	°C		1.20
815	**External operation I/O-module B, analogue input**		0.00	100.00	%		1.20
816	**External operation I/O-module B, temp sensor 1**		-55.00	125.00	°C		1.20
817	**External operation I/O-module B, temp sensor 2**		-55.00	125.00	°C		1.20
818	**External operation I/O-module C, analogue input**		0.00	100.00	%		1.20
819	**External operation I/O-module C, temp sensor 1**		-55.00	125.00	°C		1.20
820	**External operation I/O-module C, temp sensor 2**		-55.00	125.00	°C		1.20
		H/C					
1405	**H/C recirculation defrost damper output**		0.00	100.00	%		1.23
1406	**H/C recirculation defrost damper input**		0.00	100.00	%		1.23
1409	**H/C heat anti frost temp/overheat input**	Present H/C heat anti frost temperature for water heat coil. Value 0=overheat when electric heat is used.	-55.00	125.00	°C		1.23
1413	**H/C operation level**		0.00	100.00	%		1.23
1414	**H/C heat defrost level**		0.00	100.00	%		1.23
1415	**H/C defrost pressure level**		-500.0	2500.0	Pa		1.23
1416	**H/C defrost pressure start limit**		0.0	1000.0	Pa		1.23
1417	**H/C defrost pressure end limit**		0.0	1000.0	Pa		1.23
1418	**H/C superheat temp**		0.0	99.0	K		1.23
1419	**H/C discharge temp**		-10.0	130.0	°C		1.23
1420	**H/C suction temp**		-40.0	105.0	°C		1.23
1421	**H/C condensation temp**		0.0	1000.0	°C		1.23
1422	**H/C evaporation temp**		0.0	1000.0	°C		1.23
1423	**H/C high pressure**		0.10	50.00	Bar		1.23
1424	**H/C low pressure**		0.10	50.00	Bar		1.23

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
		AHU fan regulation					
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	
		Pressure regulation					
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
		Demand regulation					
33	**Demand low speed CO2 set point**	Set point for the CO2 input signal for the unit when running in low speed operation.	0	10000	ppm	1000	1.23
34	**Demand high speed CO2 set point**	Set point for the CO2 input signal for the unit when running in high speed operation.	0	10000	ppm	750	1.23
35	**Demand low speed VOC set point**	Set point for the VOC input signal for the unit when running in low speed operation.	0	10000	ppm	2500	1.23
36	**Demand high speed VOC set point**	Set point for the VOC input signal for the unit when running in high speed operation.	0	10000	ppm	1500	1.23
37	**Demand low speed 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	1.23
38	**Demand high speed 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	1.23
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	**Demand P-band**	Demand regulator P-band setting.	1.00	100.00	%	40.00	1.23
44	**Demand I-time**	Demand regulator affection setting.	1	1800	s	1200	1.23
45	**Demand CO2 P-band**	Demand C02 regulator P-band setting.	0	10000	ppm	600	1.23
46	**Demand VOC P-band**	Demand VOC regulator P-band setting.	0	10000	ppm	1000	1.23
		Slave controlled regulation					
50	**Slave offset factor**		50.00	200.00	%	0.00	
		Fans OA temp compensation					
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	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Fans down regulation					
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	
		Fans in operation at active fire alarm					
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	
		Filters					
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	
		Seasonal controlled temperature regulation					
113	**Seasonal controlled temperature regulation active**		-20.00	40.00	°C	0.00	1.23
114	**Seasonal controlled temperature regulation inactive**		-20.00	40.00	°C	20.00	1.23
		ERS-1 reg.					
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	
		ERS-2 reg.					
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	
		SA Reg.					
132	**SA temperature set point**	Supply air temperature setting, for supply air temp regulation mode.	10.00	40.00	°C	21.00	
		EA Reg.					
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	30.00	°C	16.00	
137	**SA max temp set point**	Supply air max. set point during EA/room regulation mode.	8.00	50.00	°C	28.00	1.18
138	**EA regultaion P-band**		1.00	10.00	K	5.00	
139	**EA regultaion I-time**		1	1800	s	30	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		ORS Reg.					
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	
		ORE Reg.					
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	
		AHU external sensors					
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	
		AHU Heat exchange					
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

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU Heat/Cool					
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	
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
		Summer night cool/Intermittent night heat /Morning boost					
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	
293	Summer night cool SA flow set point		AI 55	AI 57	l/s		1.22
294	Summer night cool EA flow set point		AI 56	AI 58	l/s		1.22
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		AI 56	AI 58	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	
311	Summer night cool SA duct pressure set point		20	750	Pa	100	1.22
312	Summer night cool EA duct pressure set point		20	750	Pa	100	1.22
		Cooling boost/heating boost					
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	
		Xzone ERS-1 reg.					
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 differental 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	
		Xzone ERS-2 reg.					
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	
		Xzone SA Reg.					
346	Xzone SA temperature set point	Supply air temperature setting, for supply air temp regulation mode.	10.00	40.00	°C	21.00	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Xzone EA Reg.					
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 regultaion P-band**		1.00	10.00	K	5.00	
353	**Xzone EA regultaion I-time**		1	1800	s	180	
		Xzone ORS Reg.					
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	
		Xzone ORE Reg.					
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	
		Xzone external sensors					
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	
		Xzone Heat/Cool					
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	
		Pre-heat					
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	

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		$ReCO_2$					
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	
		Humidity/VOC					
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 SA set point		10.00	90.00	%RH	50.00	
460	Dehumidifying EA set point		10.00	90.00	%RH	50.00	1.18
		COOL DX					
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	
		SMART Link					
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 I-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	
	Optimize						
638	Optimize SA pressure set point		20.0	750.0	Pa	0	
639	Optimize EA pressure set point		20.0	750.0	Pa	0	
	MIRU Control						
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		
	Efficiency measurement						
752	Delta temperature alarm limit		3.00	20.00	K	6.00	1.23
753	Efficiency alarm limit		10.00	70.00	%	50.00	1.23

Analog Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		BMS I/O-modules					
800	**External operation I/O-module A, analogue output**		0.00	100.00	%	0.00	1.20
801	**External operation I/O-module B, analogue output**		0.00	100.00	%	0.00	1.20
802	**External operation I/O-module C, analogue output**		0.00	100.00	%	0.00	1.20
		Reserved					
818	**Extra regulation sequence 2 heat max output signal**	Maximum output signal setting for the extra regulation sequence.	0.00	100.00	%	100.00	1.13
819	**Extra regulation sequence 2 cool max output signal**	Maximum output signal setting for the extra regulation sequence.	0.00	100.00	%	100.00	1.13
820	**Extra regulation sequence 2 heat P-band**		1.00	10.00	K	8	1.13
821	**Extra regulation sequence 2 heat I-time**		1	1800	s	70	1.13
822	**Extra regulation sequence 2 cool P-band**		1.00	10.00	K	6	1.13
823	**Extra regulation sequence 2 cool I-time**		1	1800	s	60	1.13
826	**Extra regulation 2 periodic operation interval**		0	168	h	24	1.13
827	**Extra regulation 2 periodic operation time**		0	60	min	3	1.13
		H/C					
852	**H/C oudoor temperature limit heating**		-50.00	50.00	°C	-20.00	1.23
853	**H/C oudoor temperature limit cooling**		0.00	50.00	°C	15.00	1.23
854	**H/C air flow limit supply air**		0	AI 57	l/s		1.23
855	**H/C air flow limit extract air**		0	AI 58	l/s		1.23
		Time schedule					
1268	**Prolonged low speed hours**	Setting for prolonged external low speed operation.	0	23		0	1.13
1269	**Prolonged low speed minutes**	Setting for prolonged external low speed operation.	0	59		0	1.13
1270	**Prolonged high speed hours**	Setting for prolonged external high speed operation.	0	23		0	1.13
1271	**Prolonged high speed minutes**	Setting for prolonged external high speed operation.	0	59		0	1.13

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Operation level/alarm					
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			
		Heat exchange					
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	CHX-1 relay output status	0	1			
28	CHX pump input	CHX-1 digital input status	0	1			
		AHU Coils					
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
		Pre-heat					
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			
		Xzone					
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			
		AYC					
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			
105	AYC cool pump input	Digital input status	0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		COOL DX					
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			
		BMS I/O-modules					
200	External operation I/O-module 3, digital input 1		0	1			1.20
201	External operation I/O-module 3, digital input 2		0	1			1.20
202	External operation I/O-module 3, digital output 1		0	1			1.20
203	External operation I/O-module 3, digital output 2		0	1			1.20
204	External operation I/O-module 6, digital input 1		0	1			1.20
205	External operation I/O-module 6, digital input 2		0	1			1.20
206	External operation I/O-module 6, digital output 1		0	1			1.20
207	External operation I/O-module 6, digital output 2		0	1			1.20
208	External operation I/O-module A, digital input		0	1			1.20
209	External operation I/O-module B, digital input		0	1			1.20
210	External operation I/O-module C, digital input		0	1			1.20
		SMART Link					
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			
359	SMART Link, DX unit 4 power defrost active		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Alarms					
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			
594	Alarm 7:4 Xzone extract air temperature below set point alarm limit		0	1			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
678	Alarm 12:13 Heat exchange efficiency below alarm limit		0	1			1.22
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			
684	Alarm 13:4 Exhaust air humidity sensor defective		0	1			1.22
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

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
718	Alarm 15:8 Plate heat exchanger bypass damper monitor tripped		0	1			1.13
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
723	Alarm 15:13 Plate counter flow heat exchanger, defrost pressure above alarm limit		0	1			1.22
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			
730	Alarm 16:5 Coil heat exchanger, I/O-module no. C communication error		0	1			1.20
731	Alarm 16:6 Coil heat exchanger, pressure sensor defective		0	1			1.20
732	Alarm 16:7 Coil heat exchanger, low pressure brine circuit		0	1			1.20
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
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			
1026	Alarm 36:1 External BMS control I/O-module no. A communication error		0	1			1.20
1027	Alarm 36:2 External BMS control I/O-module no. A temperature sensor no. 1 defective		0	1			1.20
1028	Alarm 36:3 External BMS control I/O-module no. A temperature sensor no. 2 defective		0	1			1.20
1031	Alarm 36:6 External BMS control I/O-module no. B communication error		0	1			1.20
1032	Alarm 36:7 External BMS control I/O-module no. B temperature sensor no. 1 defective		0	1			1.20
1033	Alarm 36:8 External BMS control I/O-module no. B temperature sensor no. 2 defective		0	1			1.20
1036	Alarm 36:11 External BMS control I/O-module no. C communication error		0	1			1.20
1037	Alarm 36:12 External BMS control I/O-module no. C temperature sensor no. 1 defective		0	1			1.20
1038	Alarm 36:13 External BMS control I/O-module no. C temperature sensor no. 2 defective		0	1			1.20
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
1231	Alarm 49:11 Supply air fan no. 1A motor controller internal com. error		0	1			1.18
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			
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			
1246	Alarm 50:11 Supply air fan no. 2A motor controller internal com. Error		0	1			1.18
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			
1261	Alarm 51:11 Supply air fan no. 3A motor controller internal com. error		0	1			1.18
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
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			
1321	Alarm 55:11 Extract air fan no. 1A motor controller internal com. error		0	1			1.18
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			
1336	Alarm 56:11 Extract air fan no. 2A motor controller internal com. Error		0	1			1.18
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
1351	Alarm 57:11 Extract air fan no. 3A motor controller internal com. error		0	1			1.18
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			
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			
1401	Alarm 61:1 Supply air fan no. 1A I/O-module com. error		0	1			1.18
1406	Alarm 61:6 Supply air fan no. 2A I/O-module com. error		0	1			1.18
1411	Alarm 61:11 Supply air fan no. 3A I/O-module com. error		0	1			1.18
1416	Alarm 62:1 Extract air fan no. 1A I/O-module com. error		0	1			1.18
1421	Alarm 62:6 Extract air fan no. 2A I/O-module com. error		0	1			1.18
1426	Alarm 62:11 Extract air fan no. 3A I/O-module com. error		0	1			1.18
1536	Alarm 70:1 H/C controls com. Error		0	1			1.23
1537	Alarm 70:2 H/C controls general alarm tripped		0	1			1.23
1538	Alarm 70:3 H/C controls clock circuit defective		0	1			1.23
1540	Alarm 70:5 H/C defrost pressure sensor no. D com. Error		0	1			1.23
1541	Alarm 70:6 H/C defrost I/O-module no. 5 com. Error		0	1			1.23
1542	Alarm 70:7 H/C defrost recirculation damper monitoring tripped		0	1			1.23
1543	Alarm 70:8 H/C defrost electrical heater overheat protection tripped		0	1			1.23
1544	Alarm 70:9 H/C defrost time circuit 1 above alarm limit		0	1			1.23
1545	Alarm 70:10 H/C defrost time circuit 2 above alarm limit		0	1			1.23

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
1551	Alarm 71:1 H/C compressor motor control com. Error		0	1			1.23
1552	Alarm 71:2 H/C compressor motor control start error		0	1			1.23
1553	Alarm 71:3 H/C compressor motor controller over or under voltage		0	1			1.23
1554	Alarm 71:4 H/C compressor out of operation range		0	1			1.23
1559	Alarm 71:9 H/C expansion valve controller circuit 1 com. error		0	1			1.23
1560	Alarm 71:10 H/C expansion valve controller circuit 2 com. error		0	1			1.23
1566	Alarm 72:1 H/C high pressure switch circuit 1 tripped		0	1			1.23
1567	Alarm 72:2 H/C high pressure circuit 1 above alarm limit		0	1			1.23
1568	Alarm 72:3 H/C thermal switch circuit 1 tripped		0	1			1.23
1569	Alarm 72:4 H/C discharge temperature circuit 1 above alarm limit		0	1			1.23
1570	Alarm 72:5 H/C discharge temperature sensor circuit 1 defective		0	1			1.23
1571	Alarm 72:6 H/C high pressure sensor circuit 1 defective		0	1			1.23
1572	Alarm 72:7 H/C low pressure sensor circuit 1 defective		0	1			1.23
1573	Alarm 72:8 H/C suction temperature sensor circuit 1 defective		0	1			1.23
1574	Alarm 72:9 H/C pressure difference circuit 1 below alarm limit		0	1			1.23
1575	Alarm 72:10 H/C maintenance circuit 1 and compressor		0	1			1.23
1576	Alarm 72:11 H/C superheat temperature circuit 1 below alarm limit		0	1			1.23
1577	Alarm 72:12 H/C unloading of low pressure circuit 1		0	1			1.23
1578	Alarm 72:13 H/C unloading of high pressure circuit 1		0	1			1.23
1579	Alarm 72:14 H/C low pressure circuit 1 below alarm limit		0	1			1.23
1596	Alarm 74:1 H/C high pressure switch circuit 2 tripped		0	1			1.23
1597	Alarm 74:2 H/C high pressure circuit 2 above alarm limit		0	1			1.23
1598	Alarm 74:3 H/C thermal switch circuit 2 tripped		0	1			1.23
1599	Alarm 74:4 H/C discharge temperature circuit 2 above alarm limit		0	1			1.23
1600	Alarm 74:5 H/C discharge temperature sensor circuit 2 defective		0	1			1.23
1601	Alarm 74:6 H/C high pressure sensor circuit 2 defective		0	1			1.23
1602	Alarm 74:7 H/C low pressure sensor circuit 2 defective		0	1			1.23
1603	Alarm 74:8 H/C suction temperature sensor circuit 2 defective		0	1			1.23
1604	Alarm 74:9 H/C pressure difference circuit 2 below alarm limit		0	1			1.23
1605	Alarm 74:10 H/C maintenance circuit 2 and compressor		0	1			1.23
1606	Alarm 74:11 H/C superheat temperature circuit 2 below alarm limit		0	1			1.23
1607	Alarm 74:12 H/C unloading of low pressure circuit 2		0	1			1.23
1608	Alarm 74:13 H/C unloading of high pressure circuit 2		0	1			1.23
1609	Alarm 74:14 H/C low pressure circuit 2 below alarm limit		0	1			1.23
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
1975	Info 99:5 FTP error		0	1			1.22
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			
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
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			

Binary Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
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			
2100	Active alarm group 100		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
		Alarm settings					
1	Alarm reset	Resets all active alarms	0	1		0	
3	Internal fire alarm function		0	1		0	
		Pressure sensors zero point calibration					
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	
41	PX heat exchange pressure sensor auto calibration		0	1		1	1.21
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	
58	PX heat exchange pressure sensor activate zero calibration		0	1		0	1.21
		AHU external sensors					
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	

Binary Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU Heat exchange					
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	
		AHU Heat/Cool					
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	
		Summer night cool/Intermittent night heat /Morning boost					
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	
		Cooling boost/heating boost					
320	Heating boost function		0	1		0	
		Xzone function					
325	Xzone heat function		0	1		0	
327	Xzone cool function		0	1		0	
		Xzone external sensors					
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	
		Xzone Heat/Cool					
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	
		Pre-heat					
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	
		$ReCO_2$					
425	ReCO2 Calibration		0	1		0	
		Humidity/VOC					
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~~	Moved to Multistate Value 465	0	1		0	1.17

Binary Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		SMART Link					
490	SMART Link WB Optimize function		0	1		0	
504	AQUA Link Function		0	1		0	
		AYC					
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	
		Optimize					
637	Optimize function		0	1		0	
		Reserved					
824	Extra regulation 2 periodic operation of pump function		0	1		1	1.13
825	Extra regulation 2 periodic operation of valve function		0	1		1	1.13
		BMS I/O-modules					
1000	External operation I/O-module A, function		0	1		0	1.20
1001	External operation I/O-module A, temp sensor 1 function		0	1		0	1.20
1002	External operation I/O-module A, temp sensor 2 function		0	1		0	1.20
1003	External operation I/O-module A, digital output		0	1		0	1.20
1004	External operation I/O-module B, function		0	1		0	1.20
1005	External operation I/O-module B, temp sensor 1 function		0	1		0	1.20
1006	External operation I/O-module B, temp sensor 2 function		0	1		0	1.20
1007	External operation I/O-module B, digital output		0	1		0	1.20
1008	External operation I/O-module C, function		0	1		0	1.20
1009	External operation I/O-module C, temp sensor 1 function		0	1		0	1.20
1010	External operation I/O-module C, temp sensor 2 function		0	1		0	1.20
1011	External operation I/O-module C, digital output		0	1		0	1.20

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
		AHU Air flow/duct pressure					
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			
		AHU heat exchange					
114	**PHX-2 3D Type**	State text. 1=Cross flow 2=Counter flow	1	2			1.21
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
		AHU Coils					
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			
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			

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Xzone coils					
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			
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			

Multistate Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
Pre-heat							
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			
SMART Link							
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
		Operation level					
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 Input (RO).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		H/C					
1400	**H/C mode**	State text. 1=Inactive 2=Active	1	2			1.23
1401	**H/C defrost accessory**	State text. 1=Inactive 2=Recirculation 3=Electric heat	1	3			1.23
1407	**H/C heat 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			1.23
1410	**H/C operation mode**	State text. 1=Inactive 2=Stop 3=Stabilization 4=Normal operation 5=Comfort operation 6=Economy operation 7=Defrost 8=Defrost 9=Oil recovery	1	9			1.23
1411	**H/C defrost mode**	State text. 1=Inactive 2=Start delay 3=Initializing 4=Pre-defrosting 5=Defrosting 6=Draining	1	6			1.23
1412	**H/C heat/cool mode**	State text. 1=Heating 2=Cooling	1	2			1.23

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
		AHU fan regulation					
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	
		Alarm settings					
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	
		Fans OA temp compensation					
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	
		Fans down regulation					
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
		Fans in operation at active fire alarm					
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	
		Filters					
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
		AHU Temperature regulation					
111	**Seasonal controlled temperature regulation**	State text. 1=Inactive 2=Active	1	2		1	1.23
112	**Seasonal controlled temperature regulation mode**	State text. 1=ERS-1 2=ERS-2 3=SA 4=EA 5=ORS 6=ORE	1	6		4	1.23
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	
		AHU external sensors					
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	
		AHU Heat exchange					
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

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AHU Heat/Cool					
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	
		Cooling boost/heating boost					
313	**Cooling boost function**	State text. 1=Inactive 2=Comfort 3=Economy 4=Sequence 5=Comfort and Economy 6=Economy and Sequence 7=Sequence and Comfort 8=Comfort, Economy and Sequence	1	6		1	1.20
		Xzone temperature regulation					
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	
		Xzone external sensors					
378	**Xzone external room sensors measurement function**	State text. 1=Average 2=Min 3=Max	1	3		1	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Xzone Heat/Cool					
395	**Xzone Cool on/off regulation function**	State text. 1=Inactive 2=1 step 3=2 steps 4=3 steps	1	4		1	
		$ReCO_2$					
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	

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		Humidity/VOC					
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**	State text. 1=Inactive 2=SA 3=EA	1	3		1	1.12
465	**VOC sensor function**	State text. 1=Inactive 2=Monitoring only 3=Monitoring and regulation	1	3		1	1.17
		COOL DX					
469	**COOL DX Function**	State text. 1=Inactive 2=Economy 3=Comfort 4=Top	1	4		1	
		SMART Link					
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			

Multistate Value (R/W).

Object Instance	Object Name	Description	Min	Max	Unit	Default	Misc
		AYC					
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	
		MIRU Control					
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	
		Operation level settings					
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	
794	**Schedule operation level**	State text. 1=Total stop 2=Low speed 3=High speed 4=Normal stop 5=Extended normal stop	1	5			1.23
		Reserved					
816	**Extra regulation sequence 2 function**	State text. 1=Inactive 2=Heat 3=Cool 4=Heat and Cool	1	4		1	1.13
817	**Extra regulation sequence 2 output function**	State text. 1=0-10V 2=10-0V	1	2		1	1.13
		H/C					
850	**H/C heat mode**	State text. 1=Standard 2=Comfort	1	2		1	1.23
851	**H/C cool mode**	State text. 1=Standard 2=Comfort	1	2		1	1.23

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 6=					