

BACnet IP

GOLD sizes 04-80, program version 5.15 and newer versions.

Overview

This BACnet driver is implemented in GOLD PV 5.15 and provides the function of monitoring and operating the air handling unit.

GOLD is a BACnet Application Specific Controller (B-ASC).

The supported Data Link Layer Options are BACnet / IP.

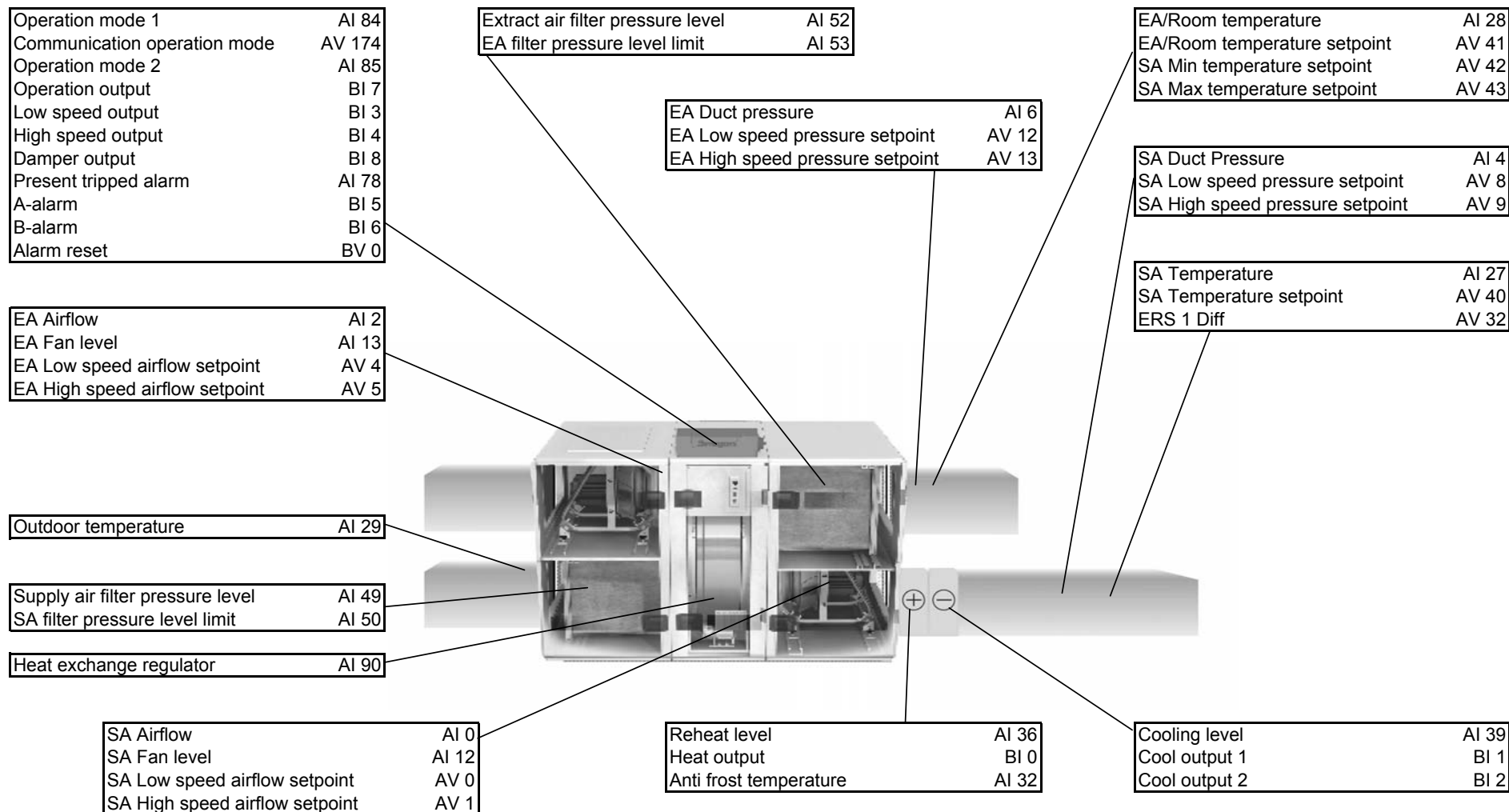
See also document BACnet PICS (Protocol Implementation Conformance Statement) GOLD and GOLD EDE (Engineering Data Exchange).

BACnet Interoperability Building Blocks Supported.

Data Sharing	DS-RP-B	Data Sharing-Read Property-B
Data Sharing	DS-RPM-B	Data Sharing-Read Property Multiple-B
Data Sharing	DS-WP-B	Data Sharing-Write Property-B
Data Sharing	DS-COV-B	Data Sharing-COV-B
Alarm&Event Management	AE-N-I-B	Alarm&Event-Notification Internal-B
Device Management	DM-DDB-B	Device Management-Dynamic Device Binding-B
Device Management	DM-DOB-B	Device Management-Dynamic Object Binding-B
Device Management	DM-DCC-B	Device Management-Dynamic Communication Control-B

Standard Object Types Supported.

Object Type	Properties
Analog Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Units, Min_Pres_Value, Max_Pres_Value, Resolution, COV_Increment.
Analog Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Units, Priority_Array, Relinquish_Default, COV_Increment.
Binary Input	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Polarity, Time_Delay, Notification_Class, Alarm_Value, Event_Enable, Acked_Transitions, Notify_Type, Event_Time_Stamps.
Binary Value	Object_Identifier, Object_Name, Object_Type, Present_Value, Status_Flags, Event_State, Out_Of_Service, Priority_Array, Relinquish_Default.
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, APDU_Timeout, Number_Of_APDU_Retries, Device_Address_Binding, Database_Revision, Active_COV_Subscriptions.
Notification Class	Object_Identifier, Object_Name, Object_Type, Description, Notification_Class, Priority, Ack_Required, Recipient_List, Profile_Name.



Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
0	SA Airflow Present supply airflow.	0-8200l/s	
1	SA Airflow regulator Present supply airflow regulator setpoint.	0-8200l/s	
2	EA Airflow Present extract airflow.	0-8200l/s	
3	EA Airflow regulator Present extract airflow regulator setpoint.	0-8200l/s	
4	SA Duct pressure Present supply air duct pressure.	0-2000Pa	
5	SA Duct pressure regulator Present supply air duct pressure regulator setpoint.	0-2000Pa	
6	EA Duct pressure Present extract air duct pressure.	0-2000Pa	
7	EA Duct pressure regulator Present extract air duct pressure regulator setpoint.	0-2000Pa	
8	SA VAV demand/boost input Present input signal for supply air VAV demand or boosting function.	0-100.00%	
9	SA VAV demand regulator Present supply air VAV demand regulator setpoint.	0-100.00%	
10	EA VAV demand/boost input Present input signal for extract air VAV demand or boosting function.	0-100.00%	
11	EA VAV demand regulator Present supply air VAV demand regulator setpoint.	0-100.00%	
12	SA Fan level Present running level for the supply air fan.	0-100.00%	
13	EA Fan level Present running level for the extract air fan.	0-100.00%	
14	SA Fan effect Present power consumption level for the supply air fan.	0-6500W	
15	EA Fan effect Present power consumption level for the extract air fan.	0-6500W	
16	SFP SFP supply air + extract air.	0.0-9.9	
17	SA Frequency Present frequency level for the supply air fan.	0-100.00Hz	
18	EA Frequency Present frequency level for the extract air fan.	0-100.00Hz	
19	SA Voltage Present voltage level for the supply air fan.	0-500V	
20	EA Voltage Present voltage level for the extract air fan.	0-500V	
21	SA Current Present current level for the supply air fan.	0-30.000A	
22	EA Current Present current level for the extract air fan.	0-30.000A	
23	SA Airflow pressure	0-2000Pa	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
	Present airflow pressure in the supply air fan inlet.		
24	EA Airflow pressure	0-2000Pa	
	Present airflow pressure in the extract air fan inlet.		
25	SA Temp regulator	-55.00-125.00°C	
	Present supply air temperature regulator setpoint.		
26	EA Temp regulator	-55.00-125.00°C	
	Present extract air temperature regulator setpoint.		
27	SA Temperature	-55.00-125.00°C	
	Present supply air temperature.		
28	EA/Room temperature	-55.00-125.00°C	
	Present extract air/room temperature in the unit.		
29	Outdoor temperatur	-55.00-125.00°C	
	Present outdoor air temperature in the unit.		
30	EA/Room temperature external	-55.00-125.00°C	
	Present room temperature external from the unit.		
31	Outdoor temperatur external	-55.00-125.00°C	
	Present outdoor air temperature external from the unit.		
32	Anti frost temperature	-55.00-125.00°C	
	Present anti frost temperature for water reheating coils.		
33	Temperature sensor 3	-55.00-125.00°C	
	Present temperature for temp sensor no.3		
34	Temperature sensor 4	-55.00-125.00°C	
	Present temperature for temp sensor no.4		
35	Rotary heat exchanger level	0-100.00%	
	Present operation level from rotary heat exchanger.		
36	Reheat level	0-100.00%	
	Present level of reheat.		
37	SA Down regulation level	0-100.00%	
	Present level of supply airflow down regulation.		
38	Extre regulation sequence level	0-100.00%	
	Present level of the extra regulation sequence.		
39	Cooling level	0-100.00%	
	Present level of cooling.		
40	Heating boost level	0-100.00%	
	Present level of heating boost.		
41	Cooling boost level	0-100.00%	
	Present level of cooling boost.		
42	HX pressure level	0-2000Pa	
	Present pressure drop for the rotary heat exchanger.		
43	HX pressure alarm limit	0-2000Pa	
	Present pressure drop alarm limit for the rotary heat exchanger.		
44	HX temperature	0-100.00°C	
	Present temperature inside the control unit for the rotary heat exchanger.		
45	Effect reduction level	0-100.00%	
	Present level of max output signal for electrical reheaters, active during low supply airflow.		
46	Anti frost temp setpoint/operation	10.00-16.00°C	
	Present anti frost temperature setpoint for water reheating coils during unit operation.		
47	Anti frost temp setpoint/stop	15.00-40.00°C	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
	Present anti frost temperature setpoint for water reheating coils when the unit is in stop.		
48	Anti frost temp alarm limit	5.00-30.00°C	
	Setting of antifrost temperature alarm limit.		
49	Supply air filter pressure level	0-2000Pa	
	Present supply air filter pressure drop.		
50	Supply air filter pressure alarm limit.	0-2000Pa	
	Present supply air filter pressure alarm limit.		
51	Supply air filter pressure level, new	0-2000Pa	
	Supply air filter pressure saved from calibration.		
52	Extract air filter pressure level	0-2000Pa	
	Present extract air filter pressure drop.		
53	Extract air filter pressure alarm limit.	0-2000Pa	
	Present extract air filter pressure alarm limit.		
54	Extract air filter pressure level, new	0-2000Pa	
	Extract air filter pressure saved from calibration.		
55	Temperature displacement	-5.00 - 5.00°C	
	Present temperature displacement from input signal.		
56	Coil type	0-20	
	Present connected reheat coil type.		
57	Cool step time	0-600s	
	Present time between cool step shift.		
58	Cool relay 1 restart time	0-900s	
	Present time between two starts of cool relay 1.		
59	Cool relay 2 restart time	0-900s	
	Present time between two starts of cool relay 2.		
60	Programversion, HMI	0-10.00	
	Present programversion for the handterminal.		
61	Programversion, HMI-slave	0-10.00	
	Present programversion for the extra handterminal.		
62	Programversion, main controller.	0-10.00	
	Present programversion for the main control unit.		
63	Programversion, SA FC-1.	0-10.00	
	Present programversion for the supply air frequency converter no.1.		
64	Programversion, SA FC-2.	0-10.00	
	Present programversion for the supply air frequency converter no.2.		
65	Programversion, EA FC-1.	0-10.00	
	Present programversion for the extract air frequency converter no.1.		
66	Programversion, EA FC-2.	0-10.00	
	Present programversion for the extract air frequency converter no.2.		
67	Programversion, HX control unit	0-10.00	
	Present programversion for the rotary heat exchange control unit.		
68	Weekday	0 - 6	
	Present weekday for the unit's internal clock.		
69	Extended low speed op. Hours	0-23	
	Present time for extended low speed operation.		
70	Extended low speed op. Minutes	0-59	
	Present time for extended low speed operation.		
71	Extended high speed op. Hours	0-23	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
	Present time for extended high speed operation.		
72	Extended high speed op. Minutes	0-59	
	Present time for extended high speed operation.		
73	SA Fan operation time	0-9999	
	Present operation time for the supply air fan, measured in minutes and present in days (24h).		
74	EA Fan operation time	0-9999	
	Present operation time for the extract air fan, measured in minutes and present in days (24h).		
75	Cool operation time	0-9999	
	Present operation time for cooling, measured in minutes and present in days (24h).		
76	Heat exchange operation time	0-9999	
	Present operation time for heat exchange, measured in minutes and present in days (24h).		
77	Reheat operation time	0-9999	
	Present operation time for reheat, measured in minutes and present in days (24h).		
78	Present tripped alarm	0-200	
	Present tripped alarm number with highest priority.		
79	Active not tripped alarm no.1	0-200	
	Present active alarm in delay.		
80	Active not tripped alarm no.2	0-200	
	Present active alarm in delay.		
81	Active not tripped alarm no.3	0-200	
	Present active alarm in delay.		
82	SA Fan size	04 - 80	
	Present supply air fan size.		
83	EA Fan size	04 - 80	
	Present extract air fan size.		
84	Operation mode 1	0 - 18	
	0=Manual stop. 1=Ext. stop. 2=Com. stop 1. 3=Manual high speed. 4=Summer night cooling. 5=Int. night heat. 6=Manual low speed. 7=Ext. high speed. 8=Com. high speed. 9=Year channel stop. 10=Year channel high speed. 11=Year channel low speed. 12=Time channel high speed. 13=Ext. low speed. 14=Com. low speed. 15=Time channel low speed. 16=Time channel stop. 17=Low speed=stop. 18=Com. stop 2. (New in PV 5.00)		
85	Operation mode 2	0 - 22	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
	0= 1=Coold air recovery. 2=Cooling boost. 3=SA down regulation. 4=HX defrosting. 5=Anti frost func. active. 6=Effect reduction. 7=Startup. 8=Zero calibration. 9=Extended low speed. 10=Extended high speed. 11=Air adjustment. 12=Cooling off. 13=Purging R.HX. 14=Extended R.HX. op. 15=Filter calibration. 16=R.HX. calibration 17=Morning boost. 18=Heating boost. 19=Alarm. 20=CoolDX pressure reduction. (PV 2.00) 21=Startup extract air fan (New in 4.00) R.HX speed limited. (Only in PV 2.00-2.02) 22=Fan heat retention (New in PV 5.00)		
86	Operation mode, manual	0 - 3	
	Present manual operation set on the unit's handterminal. 0=Stop. 1=Auto operation. 2=Manual low speed. 3=Manual high speed.		
87	Copy of Input Status 1-16.	0-65535	
	Bit 0=1x0001 Bit 1=1x0002 Bit 15=1x0016		
88	Copy of Input Status 17-32.	0-65535	
	Bit 0=1x00017 Bit 1=1x00018 Bit 15=1x0032		
89	Copy of Input Status 33-48.	0-65535	
	Bit 0=1x00033 Bit 1=1x00034 Bit 15=1x0048		
90	Heat exchanger regulator	0-100.00%	
	Present level of heat exchanger regulator RX/CX/PX.		
91	Extract air-humidity	0-100.00%	
	Present level of extract air-humidity.		
92	Extract air-humidity temperature	-55.00-125.00°C	
	Present temperature inside extract air-humidity sensor.		
93	Extract air-dewpoint	-55.00-125.00°C	
	Calculated extract air-dewpoint.		
94	AYC chilled water temperature	-55.00-125.00°C	
	Present AYC chilled water temperature.		
95	AYC chilled water temperature regulator	-55.00-125.00°C	
	Present AYC chilled water temperature regulator setpoint.		

Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
96	AYC chilled water output Present level of AYC chilled water valve output.	0-100.00%	
97	Supply air-dewpoint regulator Present supply air-dewpoint regulator setpoint.	-55.00-125.00°C	
98	Supply air-humidity Present level of supply air-humidity	0-100.00%	
99	Supply air-humidity temperature Present temperature inside supply air-humidity sensor.	-55.00-125.00°C	
100	Supply air-dewpoint Calculated supply air-dewpoint.	-55.00-125.00°C	
101	C.HX. Temperature Present temperature of coil heat exchanger.	-55.00-125.00°C	
102	P.HX. Temperature 1 Present temperature 1 of plate heat exchanger.	-55.00-125.00°C	
103	P.HX. Temperature 2 Present temperature 2 of plate heat exchanger.	-55.00-125.00°C	
104	P/C.HX. Humidity Present level of air-humidity in plate/coil heat exchanger.	0-100.00%	
105	R.HX. Efficiency Calculated level of rotary heat exchanger efficiency.	0-100.00%	
106	C.HX. Valve output Present level of coil heat exchanger valve output.	0-100.00%	
107	P.HX bypass output Present level of plate heat exchanger bypass output.	0-100.00%	
108	Supply air prefilter pressure level Present supply air prefilter pressure drop.	0-2000Pa	
109	Supply air prefilter pressure alarm limit. Present supply air prefilter pressure alarm limit.	0-2000Pa	
110	Supply air prefilter pressure level, new Supply air prefilter pressure saved from calibration.	0-2000Pa	
111	Extract air prefilter pressure level Present extract air prefilter pressure drop.	0-2000Pa	
112	Extract air prefilter pressure alarm limit. Present extract air prefilter pressure alarm limit.	0-2000Pa	
113	Extract air prefilter pressure level, new Extract air prefilter pressure saved from calibration.	0-2000Pa	
114	Xzone reheat level Present level of Xzone reheat.	0-100.00%	
115	Xzone anti frost temperature Present Xzone anti frost temperature for water reheating coils.	-55.00-125.00°C	
116	Xzone cooling level Present level of Xzone cooling.	0-100.00%	
117	Xzone cool step time Present time between Xzone cool step shift.	0-600s	
118	Xzone cool relay 1 restart time Present time between two starts of Xzone cool relay 1.	0-900s	
119	Xzone cool relay 2 restart time Present time between two starts of Xzone cool relay 2.	0-900s	
120	Xzone SA Temp regulator Present Xzone supply air temperature regulator setpoint.	-55.00-125.00°C	
121	Xzone EA Temp regulator Present Xzone extract air temperature regulator setpoint.	-55.00-125.00°C	
122	Xzone SA Temperature	-55.00-125.00°C	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
	Present Xzone supply air temperature.		
123	Xzone EA/Room temperature	-55.00-125.00°C	
	Present Xzone extract air/room temperature.		
124	Pre-heating air temperature	-55.00-125.00°C	
	Present pre-heating air temperature.		
125	Pre-heating level	0-100.00%	
	Present level of pre-heating.		
126	Pre-heating anti frost temperature	-55.00-125.00°C	
	Present anti frost temperature for water pre-heating coils.		
127	ReCO2 CO2 input	0-100.00%	
	Present input signal for ReCO2 CO2.		
128	ReCO2 internal damper output	0-100.00%	
	Present output signal for ReCO2 internal damper.		
129	ReCO2 external damper output	0-100.00%	
	Present output signal for ReCO2 external damper.		
130	ReCO2 outdoor airflow	0-8200l/s	
	Present ReCO2 outdoor airflow.		
131	ReCO2 outdoor airflow regulator	0-8200l/s	
	Present ReCO2 outdoor airflow regulator setpoint.		
132	ReCO2 outdoor airflow pressure	0-2000Pa	
	Present ReCO2 outdoor airflow pressure.		
133	Preheat operation time	0-9999	
	Present operation time for preheat, measured in minutes and present in days (24h).		
134	Xzone cool operation time	0-9999	
	Present operation time for Xzone cooling, measured in minutes and present in days (24h).		
135	Xzone reheat operation time	0-9999	
	Present operation time for Xzone reheat, measured in minutes and present in days (24h).		
136	Supply air-D temperature	-55.00-125.00°C	
	Present supply air-D temperature.		
137	Extract air-D temperature	-55.00-125.00°C	
	Present extract air-D temperature.		
138	AYC heat temperature	-55.00-125.00°C	
	Present AYC heat temperature.		
139	AYC heat temp regulator	-55.00-125.00°C	
	Present AYC heat temperature regulator setpoint.		
140	AYC heat valve output	0-100.00%	
	Present level of AYC heat valve output.		
141	Min/Max/Average Sens1Temp	-55.00-125.00°C	PV 5.15
	Present Min/Max/Average sensor 1 temperature.		
142	Min/Max/Average Sens2Temp	-55.00-125.00°C	PV 5.15
	Present Min/Max/Average sensor 2 temperature.		
143	Min/Max/Average Sens3Temp	-55.00-125.00°C	PV 5.15
	Present Min/Max/Average sensor 3 temperature.		
144	Min/Max/Average Sens4Temp	-55.00-125.00°C	PV 5.15
	Present Min/Max/Average sensor 4 temperature.		

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
0	SA Low speed airflow setpoint Supply airflow setpoint for the unit when running in low speed operation.	0-8200l/s	
1	SA High speed airflow setpoint Supply airflow setpoint for the unit when running in high speed operation.	0-8200l/s	
2	SA Max speed airflow setpoint Supply airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	0-8200l/s	
3	SA Min speed airflow setpoint Supply airflow min. limit for the unit when the low/high speed operation setpoint is altered when running in fan regulation mode VAV demand.	0-8200l/s	
4	EA Low speed airflow setpoint Extract airflow setpoint for the unit when running in low speed operation.	0-8200l/s	
5	EA High speed airflow setpoint Extract airflow setpoint for the unit when running in high speed operation.	0-8200l/s	
6	EA Max speed airflow setpoint Extract airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	0-8200l/s	
7	EA Min speed airflow setpoint Extract airflow min. limit for the unit when the low/high speed operation setpoint is altered when running in fan regulation mode VAV demand.	0-8200l/s	
8	SA Low speed pressure setpoint Supply air duct pressure setpoint for the unit when running in low speed operation.	0-750Pa	
9	SA High speed pressure setpoint Supply air duct pressure for the unit when running in high speed operation.	20-750Pa	
10	SA Max speed output signal Max. limit for the supply air fan speed when running in pressure regulation mode.	10.00-100.00%	
11	SA Max speed pressure setpoint Supply air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	20-750Pa	
12	EA Low speed pressure setpoint Extract air duct pressure setpoint for the unit when running in low speed operation.	0-750Pa	
13	EA High speed pressure setpoint Extract air duct pressure setpoint for the unit when running in high speed operation.	20-750Pa	
14	EA Max speed output signal Max. limit for the extract air fan speed when running in pressure regulation mode.	10.00-100.00%	
15	EA Max speed pressure setpoint Extract air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	20-750Pa	
16	SA Low speed demand setpoint	0-100.00%	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Supply air setpoint for the 0-10V input signal on terminal 30..31 for the unit when running in low speed operation.		
17	SA High speed demand setpoint	0-100.00%	
	Supply air setpoint for the 0-10V input signal on terminal 30..31 for the unit when running in high speed operation.		
18	EA Low speed demand setpoint	0-100.00%	
	Extract air setpoint for the 0-10V input signal on terminal 32..33 for the unit when running in low speed operation.		
19	EA High speed demand setpoint	0-100.00%	
	Extract air setpoint for the 0-10V input signal on terminal 32..33 for the unit when running in high speed operation.		
20	SA Airflow regulation zone	1.00 - 10.00	
	Supply airflow regulation zone setting in % of the present airflow setpoint that the regulator is allowed to work within.		
21	SA Airflow C-factor	0.005 - 2.500	
	Supply airflow regulator affection setting.		
22	EA Airflow regulation zone	1.00 - 10.00	
	Extract airflow regulation zone setting in % of the present airflow setpoint that the regulator is allowed to work within.		
23	EA Airflow C-factor	0.005 - 2.500	
	Extract airflow regulator affection setting.		
24	SA Pressure regulation zone	1.00 - 10.00	
	Supply air pressure regulation zone setting in % of the present duct pressure setpoint that the regulator is allowed to work within.		
25	SA Pressure C-factor	0.005 - 2.500	
	Supply air pressure regulator affection setting.		
26	EA Pressure regulation zone	1.00 - 10.00	
	Extract air pressure regulation zone setting in % of the present duct pressure setpoint that the regulator is allowed to work within.		
27	EA Pressure C-factor	0.005 - 2.500	
	Extract air pressure regulator affection setting.		
28	SA Demand P-band.	1.00 - 100.00	
	Supply air demand regulator P-band setting.		
29	SA Demand C-factor	0.005 - 2.500	
	Supply air demand regulator affection setting.		
30	EA Demand P-band.	1.00 - 100.00	
	Extract air demand regulator P-band setting.		
31	EA Demand C-factor	0.005 - 2.500	
	Extract air demand regulator affection setting.		
32	ERS 1 Diff	1.00 - 7.00°C	
	Supply air temperature difference setting according to the diagram for ERS 1.		
33	ERS 1 Breakpoint	12.00 - 26.00°C	
	Breakpoint setting according to the diagram for ERS 1.		
34	ERS 2 Breakpoint X1	10.00-38.00°C	
	Breakpoint X1 setting according to the diagram for ERS 2.		
35	ERS 2 Breakpoint Y1	10.00-40.00°C	
	Breakpoint Y1 setting according to the diagram for ERS 2.		
36	ERS 2 Breakpoint X2	11.00-39.00°C	
	Breakpoint X2 setting according to the diagram for ERS 2.		
37	ERS 2 Breakpoint Y2	10.00-40.00°C	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Breakpoint Y2 setting according to the diagram for ERS 2.		
38	ERS 2 Breakpoint X3	12.00-40.00°C	
	Breakpoint X3 setting according to the diagram for ERS 2.		
39	ERS 2 Breakpoint Y3	10.00-40.00°C	
	Breakpoint Y3 setting according to the diagram for ERS 2.		
40	SA Temperature setpoint	10.00-40.00°C	
	Supply air temperature setting, for supply air temp regulation mode.		
41	EA/Room Temperature setpoint	10.00-40.00°C	
	Extract air/room temperature setting, for Extract air/room temp regulation mode.		
42	SA Min temp setpoint	8.00-20.00°C	
	Supply air min.setpoint during EA/room regulation mode.		
43	SA Max temp setpoint	16.00-50.00°C	
	Supply air max.setpoint during EA/room regulation mode.		
44	SA Temperature P-band	1.00 - 40.00	
	Supply air temperature regulator P-band setting.		
45	EA/Room Temperature P-band	1.00 - 40.00	
	Extract air/room temperature regulator P-band setting.		
46	SA HX. Reg C-factor	0.000 - 2.500	
	Supply air heat exchange regulator affection setting.		
47	EA/Room HX. Reg C-factor	0.000 - 2.500	
	Extract air/room heat exchange regulator affection setting.		
48	SA Heat Reg C-factor	0.000 - 2.500	
	Supply air reheat regulator affection setting.		
49	EA/Room Heat Reg C-factor	0.000 - 2.500	
	Extract air/room reheat regulator affection setting.		
50	SA Extra Reg heat C-factor	0.000 - 2.500	
	Supply air extra regulation sequence for reheating regulator affection setting.		
51	SA Extra Reg cool C-factor	0.000 - 2.500	
	Supply air extra regulation sequence for cooling regulator affection setting.		
52	EA Extra Reg heat C-factor	0.000 - 2.500	
	Extract air extra regulation sequence for reheating regulator affection setting.		
53	EA Extra Reg cool C-factor	0.000 - 2.500	
	Extract air extra regulation sequence for cooling regulator affection setting.		
54	SA Down regulation Reg C-factor	0.000 - 2.500	
	Supply air reheat regulator affection setting.		
55	Reserve AV1		
56	SA Cool reg C-factor	0.000 - 2.500	
	Supply air cool regulator affection setting.		
57	EA/Room Cool reg C-factor	0.000 - 2.500	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Extract air/room cool regulator affection setting.		
58	SA Cooling boost C-factor	0.000 - 2.500	
	Supply air cooling boost affection setting.		
59	EA/Room Cooling boost reg C-factor	0.000 - 2.500	
	Extract air/room cooling boost regulator affection setting.		
60	HX Pressure alarm set.	30 - 100Pa	
	Heat exchange pressure alarm limit setting (alarm no.38).		
61	P/C.HX. defrost P-band	1.00 - 40.00	
	Plate/coil heat exchange defrost P-band setting.		
62	P/C.HX. defrost C-factor	0.000 - 2.500	
	Plate/coil heat exchange defrost C-factor setting.		
63	Cooling off set.	10 - 50%	
	Cooling off airflow setting in % of max. airflow.		
64	SA Down regulation neutral zone	0.00-10.00°C	
	Neutral zone setting before downregulation is permitted.		
65	Cool Outdoor temp limit.1	0.00-25.00°C	
	Outdoor temperature limit setting for cooling stage 1.		
66	Cool Outdoor temp limit.2	0.00-25.00°C	
	Outdoor temperature limit setting for cooling stage 2.		
67	Cool Outdoor temp limit.3	0.00-25.00°C	
	Outdoor temperature limit setting for cooling stage 3.		
68	Temperature reg. Neutral zone	0.50-10.00°C	
	Neutral zone setting before shift between heating and cooling.		
69	SA Cool min air flow	0-8200l/s	
	Supply air min. air flow setting for cooling.		
70	EA Cool min air flow	0-8200l/s	
	Extract air min. air flow setting for cooling.		
71	Heating boost start limit	0.00-40.00°C	
	Heating boost start temperature limit.		
72	Cooling boost start limit	0.00-40.00°C	
	Cooling boost (comfort) start temperature limit.		
73	SA Filter alarm limit	50-300Pa	
	Supply air filter pressure alarm limit setting.		
74	EA Filter alarm limit	50-300Pa	
	Extract air filter pressure alarm limit setting.		
75	Int. Night heat room start temp	5.00-25.00°C	
	Intermittent night heat function, extract air temperature setting for start.		
76	Int. Night heat room stop temp	5.00-25.00°C	
	Intermittent night heat function, extract air temperature setting for stop.		
77	Int. Night heat SA temp setpoint	5.00-40.00°C	
	Intermittent night heat function, supply air temperature setpoint during night heat.		
78	Int. Night heat SA airflow setpoint	0-8200l/s	
	Intermittent night heat function, supply airflow setpoint during night heat.		
79	Int. Night heat EA airflow setpoint	0-8200l/s	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Intermittent night heat function, extract airflow setpoint during night heat.		
80	Summer night cool EA start temp	17.00-27.00°C	
	Summer night cool function, extract air temperature setting for start.		
81	Summer night cool EA stop temp	12.00-22.00°C	
	Summer night cool function, extract air temperature setting for stop.		
82	Summer night cool outdoor temp limit	5.00-15.00°C	
	Summer night cool function, outdoor temperature limit.		
83	Summer night cool SA temp setpoint	10.00-20.00°C	
	Summer night cool function, supply air temperature setpoint during summer night cool.		
84	Outdoor temp comp. Winter X1.	-30.00-(-10.00)°C	
	Endpoint of winter compensation.		
85	Outdoor temp comp. Winter X2.	-10.00-15.00°C	
	Startpoint of winter compensation.		
86	Outdoor temp comp. Winter Y1.	0.00-10.00°C	
	Level of winter compensation at X1.		
87	Outdoor temp comp. Summer X3.	15.00-25.00°C	
	Startpoint of summer compensation.		
88	Outdoor temp comp. Summer X4.	25.00-40.00°C	
	Endpoint of summer compensation.		
89	Outdoor temp comp. Summer Y2.	-10.00-10.00°C	
	Level of summer compensation at X4.		
90	Outdoor airflow comp. Winter X1.	-30.00-(-10.00)°C	
	Endpoint of winter compensation.		
91	Outdoor airflow comp. Winter X2.	-10.00-15.00°C	
	Startpoint of winter compensation.		
92	Outdoor airflow comp. Winter Y1.	0-50.00%	
	Level of airflow compensation at X1.		
93	Extra Reg. Sequence max output	0-100.00%	
	Maximum output signal setting for the extra regulation sequence.		
94	EA/Room min temp alarm limit	8.00-20.00°C	
	Setting for min extract air /room temp alarm no.40.		
95	SA Deviation alarm limit	2.00-15.00°C	
	Setting for supply air temperature below present setpoint, alarm no.41.		
96	Reserve AV2		
97	SA Fan regulation mode	0 - 3	
	Setting of regulation type for the supply air fan. 0=Airflow reg. 1=Pressure reg. 2=Demand reg. 3=Slave controlled by EA fan.		
98	EA Fan regulation mode	0 - 3	
	Setting of regulation type for the extract air fan. 0=Airflow reg. 1=Pressure reg. 2=Demand reg. 3=Slave controlled by SA fan.		

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
99	ERS Step Setting of curve when temperature is above breakpoint.	1 - 4	
100	Temperature regulation mode. Setting of temperature regulation type. 0=ERS 1 reg. 1=ERS 2 reg. 2=SA reg. 3=EA/Room reg.	0 - 3	
101	Cooling off periode Time setting for cooling off electrical heating coil.	60 - 900s	
102	Cool step time set Time setting between cool step shift.	0 - 600s	
103	Cool restart time Setting of time between two starts of the cool relays.	60 - 900s	
104	Cool regulation mode Setting of cool regulation type 0=Controlled 0-10V 1=Controlled 10-0V 2=On/Off 1-step 3=On/Off 2-steps 4=On/Off 3-steps binary 5=CoolDX economi (PV 2.00) 6=CoolDX comfort (PV 3.00)	0 - 6	
105	Heating boost regulation mode. Setting for heating boost function. 0=Inactive. 1=Active.	0 - 1	
106	Cooling boost regulation mode. Setting of cooling boost regulation type. 0=Inactive. 1=Comfort. 2=Economy. 3=Sequence. 4=Comfort+economy (New in PV 5.00). 5=Economy+sequence (New in PV 5.00).	0 - 5	
107	Filter calibration mode Setting for required filter calibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter. 4=HX. 5=ReCO2 (New in PV 5.00).	0 - 5	
108	Air adjustment time, minutes Setting for amount of minutes to air adjustment function.	0 - 1727	
109	Air adjustment time, hours Setting for amount of hours to air adjustment function.	0 - 28	
110	Handterminal language	0 - 18	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	0=Svenska 1=Norsk 2=Dansk 3=Suomi 4=English 5=Français 6=Deutsch 7=Polski 8=Český 9=Italiano 10=Español 11=Português 12=Русский 13=Eesti 14=Latviesu 15=Lietiviu 16=Nederlands 17=Magyar (New in PV 5.00) 18=Türkçe (New in PV 5.01)		
111	Summer night cool start, hour	0-23	
	Setting for start time of summer night cooling function.		
112	Summer night cool start, minute	0-59	
	Setting for start time of summer night cooling function.		
113	Summer night cool stop, hour	0-23	
	Setting for stop time of summer night cooling function.		
114	Summer night cool stop, minute	0-59	
	Setting for stop time of summer night cooling function.		
115	Extra regulation sequence cool mode	0 - 2	
	Setting of extra regulation sequence cool type. 0=Inactive. 1=Comfort. 2=Economi.		
116	Extra regulation sequence heat mode	0 - 2	
	Setting of extra regulation sequence heat type. 0=Inactive. 1=Comfort. 2=Economi.		
117	Morning boost time, hours	0-23	
	Setting of morning boost time before normal operation.		
118	Morning boost time, minutes	0-59	
	Setting of morning boost time before normal operation.		
119	Startup time	0 - 600s	
	Setting of time for startup when the unit regulator is running with fixed signals.		
120	Start delay SA fan.	0 - 600s	
	Setting of start delay time for the supply air fan.		
121	Start delay EA fan.	0 - 600s	
	Setting of start delay time for the extract air fan after supply air fan has started.		
122	Air flow unit	0 -2	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc																								
	Setting of air flow unit presented in the unit's handterminal and WEB. 0=l/s. 1=m3/s. 2=m3/h.																										
123	Reserve AV3																										
124	Year Setting for the unit's internal clock.	2000-2099																									
125	Month Setting for the unit's internal clock.	1-12																									
126	Date Setting for the unit's internal clock.	0-31																									
127	Hour Setting for the unit's internal clock.	0-23																									
128	Minute Setting for the unit's internal clock.	0-59																									
129	Second Setting for the unit's internal clock.	0-59																									
130	Time channel 1 status	0-10,16-26																									
	<table border="0"> <tr> <td>Low speed</td> <td>Högfart</td> </tr> <tr> <td>0=Inactive</td> <td>16=Inactive</td> </tr> <tr> <td>1=Monday</td> <td>17=Monday</td> </tr> <tr> <td>2=Tuesday</td> <td>18=Tuesday</td> </tr> <tr> <td>3=Wednesday</td> <td>19=Wednesday</td> </tr> <tr> <td>4=Thursday.</td> <td>20=Thursday</td> </tr> <tr> <td>5=Friday</td> <td>21=Friday</td> </tr> <tr> <td>6=Saturday</td> <td>22=Saturday</td> </tr> <tr> <td>7=Sunday</td> <td>23=Sunday</td> </tr> <tr> <td>8=Monday..Friday</td> <td>24=Monday..Friday</td> </tr> <tr> <td>9=Monday..Sunday</td> <td>25=Monday..Sunday</td> </tr> <tr> <td>10=Saturday..Sunday</td> <td>26=Saturday..Sunday</td> </tr> </table>	Low speed	Högfart	0=Inactive	16=Inactive	1=Monday	17=Monday	2=Tuesday	18=Tuesday	3=Wednesday	19=Wednesday	4=Thursday.	20=Thursday	5=Friday	21=Friday	6=Saturday	22=Saturday	7=Sunday	23=Sunday	8=Monday..Friday	24=Monday..Friday	9=Monday..Sunday	25=Monday..Sunday	10=Saturday..Sunday	26=Saturday..Sunday		
Low speed	Högfart																										
0=Inactive	16=Inactive																										
1=Monday	17=Monday																										
2=Tuesday	18=Tuesday																										
3=Wednesday	19=Wednesday																										
4=Thursday.	20=Thursday																										
5=Friday	21=Friday																										
6=Saturday	22=Saturday																										
7=Sunday	23=Sunday																										
8=Monday..Friday	24=Monday..Friday																										
9=Monday..Sunday	25=Monday..Sunday																										
10=Saturday..Sunday	26=Saturday..Sunday																										
131	Time channel 1 start hour	0-23																									
132	Time channel 1 start minute	0-59																									
133	Time channel 1 stop hour	0-23																									
134	Time channel 1 stop minute	0-59																									
135	Time channel 2 status	0-10,16-26																									
136	Time channel 2 start hour	0-23																									
137	Time channel 2 start minute	0-59																									
138	Time channel 2 stop hour	0-23																									
139	Time channel 2 stop minute	0-59																									
140	Time channel 3 status	0-10,16-26																									
141	Time channel 3 start hour	0-23																									
142	Time channel 3 start minute	0-59																									
143	Time channel 3 stop hour	0-23																									
144	Time channel 3 stop minute	0-59																									
145	Time channel 4 status	0-10,16-26																									
146	Time channel 4 start hour	0-23																									
147	Time channel 4 start minute	0-59																									
148	Time channel 4 stop hour	0-23																									
149	Time channel 4 stop minute	0-59																									
150	Time channel 5 status	0-10,16-26																									

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
151	Time channel 5 start hour	0-23	
152	Time channel 5 start minute	0-59	
153	Time channel 5 stop hour	0-23	
154	Time channel 5 stop minute	0-59	
155	Time channel 6 status	0-10,16-26	
156	Time channel 6 start hour	0-23	
157	Time channel 6 start minute	0-59	
158	Time channel 6 stop hour	0-23	
159	Time channel 6 stop minute	0-59	
160	Time channel 7 status	0-10,16-26	
161	Time channel 7 start hour	0-23	
162	Time channel 7 start minute	0-59	
163	Time channel 7 stop hour	0-23	
164	Time channel 7 stop minute	0-59	
165	Time channel 8 status	0-10,16-26	
166	Time channel 8 start hour	0-23	
167	Time channel 8 start minute	0-59	
168	Time channel 8 stop hour	0-23	
169	Time channel 8 stop minute	0-59	
170	Extended low speed op. Hours set	0-23	
	Setting for extended low speed operation.		
171	Extended low speed op. Minutes set	0-59	
	Setting for extended low speed operation.		
172	Extended high speed op. Hours set	0-23	
	Setting for extended low speed operation.		
173	Extended high speed op. Minutes set	0-59	
	Setting for extended low speed operation.		
174	Communication operation mode	0 - 4	
	Setting of unit operation mode from communication. 0=Auto operation. 1=Communication stop 1. 2=Communication low speed. 3=Communication high speed. 4=Communication stop 2 (New in PV 5.00). Summer night cool, intermittent night heat and morning boost functions works at stop 2.		
175	Service periode alarm.	0-99	
	Setting for delay time in months before service alarm.		
176	External alarm 1 delay	1 - 600s	
	Setting of delay time for external alarm no 1		
177	External alarm 2 delay	1 - 600s	
	Setting of delay time for external alarm no 2		
178	Int. Night heat SA pressure setpoint	20-750Pa	
	Intermittent night heat function, supply pressure setpoint during night heat.		
179	Int. Night heat EA pressure setpoint	20-750Pa	
	Intermittent night heat function, extract pressure setpoint during night heat.		
180	Copy of Coil Status 1-16	0-65535	
	Bit 0=1x0001 Bit 1=1x0002 Bit 15=1x0016		

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
181	Copy of Coil Statust 17-32 Bit 0=1x00017 Bit 1=1x00018 Bit 15=1x0032	0-65535	
182	Copy of Coil Status 33-48 Bit 0=1x00033 Bit 1=1x00034 Bit 15=1x0048	0-65535	
183	Heat relay periodic func. Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)	0-3	
184	Cool relay 1 periodic func. Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)	0-3	
185	Cool relay 2 periodic func. Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)	0-3	
186	Slave control C-factor Slave regulator affection setting.	0.5 - 2.0	
187	SA dehumid P-band SA dehumid regulator P-band setting.	1.00 - 40.00	
188	SA dehumid C-factor SA dehumid regulator affection setting.	0.000 - 2.500	
189	Dewpoint reg. P-band Dewpoint regulator P-band setting.	1.00 - 40.00	
190	Dewpoint reg. C-factor Dewpoint regulator affection setting.	0.000 - 2.500	
191	AYC chilled water temperature set Setting of AYC chilled water temperature setpoint.	5.00-30.00°C	
192	Dewpoint neutralzone Dewpoint neutralzone setting.	0.00-5.00°C	
193	Comp. airflow Setting of comp. airflow.	0-30.00%	
194	Supply air-humidity Setting of supply air-humidity.	10.00-90.00%	
195	Water heating periodic op. time Setting of periodic op. time (minute).	0-60min	
196	Water heating interval Setting of water heating interval time (hour).	0-168h	
197	Cool periodic op. time Setting of periodic op. time (minute).	0-60min	
198	Cool interval Setting of cool interval time (hour).	0-168h	
199	P/C.HX. bypass adj. Setting of plate/coil heat exchange bypass adjustment.	-5.00-5.00°C	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
200	EA/Room temperature external func.	0-3	PV 5.15
	Setting of EA/Room temperature (external) function. 0=Inactive. 1=Input signal on terminal 40..41. 2=Communication (AV 201). 3=Min/Max/Average (PV 5.15).		
201	EA/Room temperature com.	-55.00-125.00°C	
	Setting of EA/Room temperature via communication.		
202	Outdoor temperature external func.	0-2	
	Setting of outdoor temperature (external) function. 0=Inactive. 1=Input signal on terminal 38..39. 2=Communication (AV 203).		
203	Outdoor temperature com.	-55.00-125.00°C	
	Setting of outdoor temperature via communication.		
204	Timeout temperature com.	0-9999min	
	Setting of timeout for temperature via communication (AV 201, AV 203).		
205	Flow at fire function.	0-3	
	Setting for activating the air fan operation at fire function 0=Inactive. 1=SA. 2=EA. 3=SA+EA.		
206	Air fan down regulation func.	0-2	
	Setting for activating the air fan down regulation function 0=Inactive. 1=SA. 2=SA+EA.		
207	SA speed at fire.	50.00-100.00%	
	Setting of supply air speed at fire.		
208	EA speed at fire.	50.00-100.00%	
	Setting of extract air speed at fire.		
209	Temperature alarm setpoint.	-25.00-25.00°C	
	Temperature alarm function setting (no.80).		
210	Temperature alarm time.	1-999s	
	Setting of delay time for temperature alarm (no.80).		
211	Supply air min P-band.	1.00 - 40.00	
	Supply air min regulator P-band setting.		
212	Supply air min C-factor.	0.000 - 2.500	
	Supply air min regulator affection setting.		
213	Supply air max P-band.	1.00 - 40.00	
	Supply air max regulator P-band setting.		
214	Supply air max C-factor.	0.000 - 2.500	
	Supply air max regulator affection setting.		
215	Year channel 1 function.	0 - 3	
	0=Inactive. 1=Stop. 2=Low speed. 3=High speed.		
216	Year channel 1 start year.	2000 - 2099	
217	Year channel 1 start month.	1 - 12	
218	Year channel 1 start date.	1 - 31	
219	Year channel 1 start hour.	0 - 23	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
220	Year channel 1 start minute.	0 - 59	
221	Year channel 1 stop year.	2000 - 2099	
222	Year channel 1 stop month.	1 - 12	
223	Year channel 1 stop date.	1 - 31	
224	Year channel 1 stop hour.	0 - 23	
225	Year channel 1 stop minute.	0 - 59	
226	Year channel 2 function.	0 - 3	
227	Year channel 2 start year.	2000 - 2099	
228	Year channel 2 start month.	1 - 12	
229	Year channel 2 start date.	1 - 31	
230	Year channel 2 start hour.	0 - 23	
231	Year channel 2 start minute.	0 - 59	
232	Year channel 2 stop year.	2000 - 2099	
233	Year channel 2 stop month.	1 - 12	
234	Year channel 2 stop date.	1 - 31	
235	Year channel 2 stop hour.	0 - 23	
236	Year channel 2 stop minute.	0 - 59	
237	Year channel 3 function.	0 - 3	
238	Year channel 3 start year.	2000 - 2099	
239	Year channel 3 start month.	1 - 12	
240	Year channel 3 start date.	1 - 31	
241	Year channel 3 start hour.	0 - 23	
242	Year channel 3 start minute.	0 - 59	
243	Year channel 3 stop year.	2000 - 2099	
244	Year channel 3 stop month.	1 - 12	
245	Year channel 3 stop date.	1 - 31	
246	Year channel 3 stop hour.	0 - 23	
247	Year channel 3 stop minute.	0 - 59	
248	Year channel 4 function.	0 - 3	
249	Year channel 4 start year.	2000 - 2099	
250	Year channel 4 start month.	1 - 12	
251	Year channel 4 start date.	1 - 31	
252	Year channel 4 start hour.	0 - 23	
253	Year channel 4 start minute.	0 - 59	
254	Year channel 4 stop year.	2000 - 2099	
255	Year channel 4 stop month.	1 - 12	
256	Year channel 4 stop date.	1 - 31	
257	Year channel 4 stop hour.	0 - 23	
258	Year channel 4 stop minute.	0 - 59	
259	Year channel 5 function.	0 - 3	
260	Year channel 5 start year.	2000 - 2099	
261	Year channel 5 start month.	1 - 12	
262	Year channel 5 start date.	1 - 31	
263	Year channel 5 start hour.	0 - 23	
264	Year channel 5 start minute.	0 - 59	
265	Year channel 5 stop year.	2000 - 2099	
266	Year channel 5 stop month.	1 - 12	
267	Year channel 5 stop date.	1 - 31	
268	Year channel 5 stop hour.	0 - 23	
269	Year channel 5 stop minute.	0 - 59	
270	Year channel 6 function.	0 - 3	
271	Year channel 6 start year.	2000 - 2099	
272	Year channel 6 start month.	1 - 12	
273	Year channel 6 start date.	1 - 31	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
274	Year channel 6 start hour.	0 - 23	
275	Year channel 6 start minute.	0 - 59	
276	Year channel 6 stop year.	2000 - 2099	
277	Year channel 6 stop month.	1 - 12	
278	Year channel 6 stop date.	1 - 31	
279	Year channel 6 stop hour.	0 - 23	
280	Year channel 6 stop minute.	0 - 59	
281	Year channel 7 function.	0 - 3	
282	Year channel 7 start year.	2000 - 2099	
283	Year channel 7 start month.	1 - 12	
284	Year channel 7 start date.	1 - 31	
285	Year channel 7 start hour.	0 - 23	
286	Year channel 7 start minute.	0 - 59	
287	Year channel 7 stop year.	2000 - 2099	
288	Year channel 7 stop month.	1 - 12	
289	Year channel 7 stop date.	1 - 31	
290	Year channel 7 stop hour.	0 - 23	
291	Year channel 7 stop minute.	0 - 59	
292	Year channel 8 function.	0 - 3	
293	Year channel 8 start year.	2000 - 2099	
294	Year channel 8 start month.	1 - 12	
295	Year channel 8 start date.	1 - 31	
296	Year channel 8 start hour.	0 - 23	
297	Year channel 8 start minute.	0 - 59	
298	Year channel 8 stop year.	2000 - 2099	
299	Year channel 8 stop month.	1 - 12	
300	Year channel 8 stop date.	1 - 31	
301	Year channel 8 stop hour.	0 - 23	
302	Year channel 8 stop minute.	0 - 59	
303	Filter select.	0 - 3	
	Setting for filter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
304	Prefilter select.	0 - 3	
	Setting for prefilter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
305	SA prefilter alarm limit.	50-300Pa	
	Supply air prefilter pressure alarm limit setting.		
306	EA prefilter alarm limit.	50-300Pa	
	Extract air prefilter pressure alarm limit setting.		
307	Prefilter calibration mode.	0 - 3	
	Setting for required filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter.		
308	Xzone reheat function.	0 - 4	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Setting for Xzone reheat function. 0=Inactive. 1=El. coil P/P. 2=El. coil 0-10V. 3=Water coil with FP. 4=Water coil without FP.		
309	Xzone cooling function.	0 - 5	
	Setting for Xzone cooling function. 0=Inactive. 1=0-10V. 2=10-0V. 3=On/off 1. 4=On/off 2. 5=On/off 3.		
310	Xzone temperature reg. Neutral zone.	0.50-10.00°C	
	Xzone neutral zone setting before shift between heating and cooling.		
311	Xzone temperature regulation mode.	0 - 3	
	Setting of Xzone temperature regulation type. 0=ERS 1 reg. 1=ERS 2 reg. 2=SA reg. 3=EA/Room reg.		
312	Xzone ERS Step.	1 - 4	
	Setting of Xzone curve when temperature is above breakpoint.		
313	Xzone ERS 1 Diff.	1.00 - 7.00°C	
	Supply air temperature difference setting according to the diagram for Xzone ERS 1.		
314	Xzone ERS 1 Breakpoint.	12.00 - 26.00°C	
	Breakpoint setting according to the diagram for Xzone ERS 1.		
315	Xzone ERS 2 Breakpoint X1.	10.00-38.00°C	
	Breakpoint X1 setting according to the diagram for Xzone ERS 2.		
316	Xzone ERS 2 Breakpoint Y1.	10.00-40.00°C	
	Breakpoint Y1 setting according to the diagram for Xzone ERS 2.		
317	Xzone ERS 2 Breakpoint X2.	11.00-39.00°C	
	Breakpoint X2 setting according to the diagram for Xzone ERS 2.		
318	Xzone ERS 2 Breakpoint Y2.	10.00-40.00°C	
	Breakpoint Y2 setting according to the diagram for Xzone ERS 2.		
319	Xzone ERS 2 Breakpoint X3.	12.00-40.00°C	
	Breakpoint X3 setting according to the diagram for Xzone ERS 2.		
320	Xzone ERS 2 Breakpoint Y3.	10.00-40.00°C	
	Breakpoint Y3 setting according to the diagram for Xzone ERS 2.		
321	Xzone SA Temperature setpoint.	10.00-40.00°C	
	Xzone supply air temperature setting, for supply air temp regulation mode.		
322	Xzone EA/Room Temperature setpoint.	10.00-40.00°C	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Xzone extract air/room temperature setting, for extract air/room temp regulation mode.		
323	Xzone SA Min temp setpoint.	8.00-20.00°C	
	Xzone supply air min.setpoint during EA/room regulation mode.		
324	Xzone SA Max temp setpoint.	16.00-50.00°C	
	Xzone supply air max.setpoint during EA/room regulation mode.		
325	Preheating function.	0 - 4	
	Setting of preheating function. 0=Inactive. 1=El. coil P/P. 2=El. coil 0-10V. 3=Water coil with FP. 4=Water coil without FP.		
326	Preheating setpoint.	-30.00-30.00°C	
	Setting of preheating temperature setpoint.		
327	Xzone P-band.	1.00-40.00	
	Xzone regulator P-band setting.		
328	Xzone SA reheat C-factor.	0.000 - 2.500	
	Xzone supply air reheat regulator affection setting.		
329	Xzone SA cooling C-factor.	0.000 - 2.500	
	Xzone supply air cooling regulator affection setting.		
330	Xzone EA reheat C-factor.	0.000 - 2.500	
	Xzone extract air reheat regulator affection setting.		
331	Xzone EA cooling C-factor.	0.000 - 2.500	
	Xzone extract air cooling regulator affection setting.		
332	Xzone SA min P-band.	1.00 - 40.00	
	Xzone supply air min regulator P-band setting.		
333	Xzone SA min C-factor.	0.000 - 2.500	
	Xzone supply air min regulator affection setting.		
334	Xzone SA max P-band.	1.00 - 40.00	
	Xzone supply air max regulator P-band setting.		
335	Xzone SA max C-factor.	0.000 - 2.500	
	Xzone supply air min regulator affection setting.		
336	Preheat P-band.	1.00 - 40.00	
	Preheat regulator P-band setting.		
337	Preheat C-factor.	0.000 - 2.500	
	Preheat regulator affection setting.		
338	ReCO2 CO2 function.	0 - 2	
	Setting of ReCO2 CO2 function. 0=Inactive. 1=CO2. 2=CO2+flow.		
339	ReCO2 CO2 setpoint.	0-100.00%	
	Setting of ReCO2 CO2 setpoint.		
340	ReCO2 cooling function.	0 - 2	
	Setting of ReCO2 cooling function. 0=Inactive. 1=Comfort. 2=Economy.		
341	ReCO2 heating function.	0 - 2	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Setting of ReCO2 heating function. 0=Inactive. 1=Comfort. 2=Economy.		
342	ReCO2 min outdoor air.	0-8200l/s	
	Setting of ReCO2 min outdoor air.		
343	ReCO2 min exhaust air.	0-8200l/s	
	Setting of ReCO2 min exhaust air.		
344	ReCO2 CO2 P-band.	1.00 - 100.00	
	ReCO2 CO2 regulator P-band setting.		
345	ReCO2 CO2 C-factor.	0.000 - 5.000	
	ReCO2 CO2 regulator affection setting.		
346	ReCO2 CO2 flow C-factor.	0.000 - 5.000	
	ReCO2 flow regulator affection setting.		
347	ReCO2 heating C-factor.	0.000 - 5.000	
	ReCO2 heating regulator affection setting.		
348	ReCO2 cooling C-factor.	0.000 - 5.000	
	ReCO2 cooling regulator affection setting.		
349	AYC function.	0 - 3	
	Setting of AYC function. 0=Inactive. 1=Cool. 2=Heat. 3=Cool+heat.		
350	AYC heat temp set.	10.00-80.00°C	
	Setting of AYC heated water temperature setpoint.		
351	AYC night comp. channel.	1 - 2	
	Setting of AYC night compensation channel. 1=Channel 1. 2=Channel 2.		
352	AYC channel start hour.	0-23h	
	Setting of AYC channel start time (hour).		
353	AYC channel start minute.	0-59min	
	Setting of AYC channel start time (minute).		
354	AYC channel stop hour.	0-23h	
	Setting of AYC channel stop time (hour).		
355	AYC channel stop minute.	0-59min	
	Setting of AYC channel stop time (minute).		
356	AYC channel period.	0-10	
	Setting of AYC channel period. 0=Inactive 1=Monday 2=Tuesday 3=Wednesday 4=Thursday 5=Friday 6=Saturday 7=Sunday 8=Monday..Friday 9=Monday..Sunday 10=Saturday..Sunday		
357	AYC heat P-band.	1.00 - 40.00	
	AYC heat regulator P-band setting.		
358	AYC heat C-factor.	0.000 - 2.500	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	AYC heat regulator affection setting.		
359	AYC cool P-band.	1.00 - 40.00	
	AYC cool regulator P-band setting.		
360	AYC cool C-factor.	0.000 - 2.500	
	AYC cool regulator affection setting.		
361	AYC heat out comp. X1.	-40.00-40.00°C	
	AYC outdoor compensation of heated water, outdoor temp X1 setting.		
362	AYC heat out comp. Y1.	10.00-80.00°C	
	AYC outdoor compensation of heated water, heated water temp Y1 setting.		
363	AYC heat out comp. X2.	-40.00-40.00°C	
	AYC outdoor compensation of heated water, outdoor temp X2 setting.		
364	AYC heat out comp. Y2.	10.00-80.00°C	
	AYC outdoor compensation of heated water, heated water temp Y2 setting.		
365	AYC heat out comp. X3.	-40.00-40.00°C	
	AYC outdoor compensation of heated water, outdoor temp X3 setting.		
366	AYC heat out comp. Y3.	10.00-80.00°C	
	AYC outdoor compensation of heated water, heated water temp Y3 setting.		
367	AYC heat room comp. temp limit.	0.00-40.00°C	
	AYC room compensation of heated water, heated water temp limit setting.		
368	AYC heat room comp P-band.	1.00-10.00°C	
	AYC room compensation of heated water, heated water P-band setting.		
369	AYC heat night comp temp.	-10.00-10.00°C	
	AYC night compensation of heated water, heated water night setting.		
370	AYC heat pump on temp.	-40.00-40.00°C	
	AYC pump operation of heated water, outdoor temp start setting.		
371	AYC heat pump off temp.	-40.00-40.00°C	
	AYC pump operation of heated water, outdoor temp stop setting.		
372	AYC heat pump alarm.	0 - 3	
	Setting for selecting the AYC heated water pump alarm function. 0=Inactive. 1=Open. 2=Closed. 3=Contactor.		
373	AYC heat per op function.	0 - 3	
	Setting for selecting the AYC heated water periodic operation function. 0=Inactive. 1=Pump. 2=Pump+valve. 3=Valve.		
374	AYC heat per op time.	0-60min	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	AYC periodic operation of heated water, time (minute) setting.		
375	AYC heat per op interval.	0-168h	
	AYC periodic operation of heated water, interval time (hour) setting.		
376	AYC cool out comp. X1.	-40.00-40.00°C	
	AYC outdoor compensation of chilled water, outdoor temp X1 setting.		
377	AYC cool out comp. Y1.	10.00-80.00°C	
	AYC outdoor compensation of chilled water, chilled water temp Y1 setting.		
378	AYC cool out comp. X2.	-40.00-40.00°C	
	AYC outdoor compensation of chilled water, outdoor temp X2 setting.		
379	AYC cool out comp. Y2.	10.00-80.00°C	
	AYC outdoor compensation of chilled water, chilled water temp Y2 setting.		
380	AYC cool out comp. X3.	-40.00-40.00°C	
	AYC outdoor compensation of chilled water, outdoor temp X3 setting.		
381	AYC cool out comp. Y3.	10.00-80.00°C	
	AYC outdoor compensation of chilled water, chilled water temp Y3 setting.		
382	AYC cool room comp. temp limit.	0.00-40.00°C	
	AYC room compensation of chilled water, chilled water temp limit setting.		
383	AYC cool room comp. P-band.	1.00-10.00°C	
	AYC room compensation of chilled water, chilled water P-band setting.		
384	AYC cool night comp temp.	-10.00-10.00°C	
	AYC night compensation of chilled water, chilled water night setting.		
385	AYC cool pump on temp.	-40.00-40.00°C	
	AYC pump operation of chilled water, outdoor temp start setting.		
386	AYC cool pump off temp.	-40.00-40.00°C	
	AYC pump operation of chilled water, outdoor temp stop setting.		
387	AYC cool pump alarm.	0 - 3	
	Setting for selecting the AYC chilled water pump alarm function. 0=Inactive. 1=Open. 2=Closed. 3=Contactor.		
388	AYC cool per op function.	0 - 3	
	Setting for selecting the AYC chilled water periodic operation function. 0=Inactive. 1=Pump. 2=Pump+valve. 3=Valve.		
389	AYC cool per op time.	0-60min	

Analog Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	AYC periodic operation of chilled water, time (minute) setting.		
390	AYC cool per op interval.	0-168h	
	AYC periodic operation of chilled water, interval time (hour) setting.		
391	IO-mod 3 output 1 function.	0 - 10	
	Setting of I/O-module no. 3 relay 1 output. 0=Cooling boost. 1=Heating boost. 2=Cooling. 3=Heat exchange. 4=Reheat. 5=Down regulation. 6=Effect reduction. 7=Intermittent night heat. 8=Summer night cooling. 9=Morning boost. 10=Heat exchange defrost.		
392	IO-mod 3 output 2 function.	0 - 10	
	Setting of I/O-module no. 3 relay 2 output. 0=Cooling boost. 1=Heating boost. 2=Cooling. 3=Heat exchange. 4=Reheat. 5=Down regulation. 6=Effect reduction. 7=Intermittent night heat. 8=Summer night cooling. 9=Morning boost. 10=Heat exchange defrost.		
393	Humid reg. func.	0 - 2	PV 5.10
	Setting for selecting humidifying function. 0=Inactive. 1=Supply air. 2=Extract air.		
394	Humid reg. Start.	10.00-90.00%	PV 5.10
	Humidifying start limit setting.		
395	Humid reg. Stop.	15.00-95.00%	PV 5.10
	Humidifying stop limit setting.		
396	Min/Max/Average SensNumber	1 - 4	PV 5.15
	Setting for selecting numbers of sensors to the Min/Max/Average function.		
397	Min/Max/Average SensFunction	0 - 2	PV 5.15
	Setting for selecting sensor function. 0=Min. 1=Max. 2=Average.		

Binary Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
0	Heat output Status for relay output.	0-1	
1	Cool output 1 Status for relay output.	0-1	
2	Cool output 2 Status for relay output.	0-1	
3	Low speed output Status for relay output.	0-1	
4	High speed output Status for relay output.	0-1	
5	A-alarm. Status for relay output.	0-1	
6	B-alarm. Status for relay output.	0-1	
7	Operation output Status for relay output.	0-1	
8	Damper output Status for relay output.	0-1	
9	External low speed input Status for digital input.	0-1	
10	External high speed input Status for digital input.	0-1	
11	External alarm 1 input Status for digital input.	0-1	
12	External alarm 2 input Status for digital input.	0-1	
13	External fire alarm input. Status for digital input.	0-1	
14	External stop input Status for digital input.	0-1	
15	DIP Switch 1 Status for dip switch setting.	0-1	
16	DIP Switch 2 Status for dip switch setting.	0-1	
17	DIP Switch 3 Status for dip switch setting.	0-1	
18	DIP Switch 4 Status for dip switch setting.	0-1	
19	DIP Switch 5 Status for dip switch setting.	0-1	
20	DIP Switch 6 Status for dip switch setting.	0-1	
21	AYC heat pump output Status for AYC heat pump output.	0-1	
22	AYC cool pump output Status for AYC cool pump output.	0-1	
23	C.HX. pump output Status for coil heat exchanger pump output.	0-1	
24	R.HX rotation monitor Status from the rotation detector.	0-1	
25	Xzone heat output Status for relay output.	0-1	
26	Xzone cool output 1 Status for relay output.	0-1	

Binary Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
27	Xzone cool output 2 Status for relay output.	0-1	
28	Pre-heat output Status for relay output.	0-1	
29	IO-mod 3 output 1 Status for I/O-module no. 3 relay 1 output.	0-1	
30	IO-mod 3 output 2 Status for I/O-module no. 3 relay 2 output.	0-1	
31	IO-mod 4 output 1 Status for I/O-module no. 4 relay 1 output.	0-1	PV 5.10
32	Reserve BI12		
33	Reserve BI13		
34	Reserve BI14		
35	Reserve BI15		
36	Reserve BI16		
37	Reserve BI17		
38	Reserve BI18		
39	Reserve BI19		
40	Reserve BI20		
41	Reserve BI21		
42	Reserve BI22		
43	Reserve BI23		
44	Reserve BI24		
45	Reserve BI25		
46	Reserve BI26		
47	Reserve BI27		
48	Alarm number 1 Status if alarm number 1 is active.	0-1	
49	Alarm number 2 Status if alarm number 2 is active.	0-1	
50	Alarm number 3 Status if alarm number 3 is active.	0-1	
247	Alarm number 200 Status if alarm number 200 is active.	0-1	
248	Info number 1	0-1	

Binary Inputs (RO).

Object Instance	Object Name	Min/Max	Misc
	Status if info number 1 is active.		
249	Info number 2	0-1	
	Status if info number 2 is active.		
250	Info number 3	0-1	
	Status if info number 3 is active.		
347	Info number 100	0-1	
	Status if info number 100 is active.		

Binary Value (R/W).

Object Instance	Object Name	Min/Max	Misc
0	Alarm reset Resets tripped alarms.	0-1	
1	SA Boosting func. Setting for activating the boost function for the supply air fan.	0-1	
2	EA Boosting func. Setting for activating the boost function for the extract air fan.	0-1	
3	R.HX. Defrost func. Setting for activating the defrost function for the rotary heat exchanger.	0-1	
4	SA Down regulation func. Setting for activating the down regulation function for the supply air fan. (Moved to AV 206 in PV 3.00)	0-1	
5	Reserve BV1		
6	Reserve BV2		
7	Cool operation mode Setting for cooling between off and auto operation.	0-1	
8	Int. Night heat func. Setting for activating the intermittent night heat function.	0-1	
9	Damper func. Setting for activating the damper output relay during int. night heat.	0-1	
10	Summer night cooling Setting for activating the summer night cool function.	0-1	
11	Temp displacement Setting for activating the external temperature displacement function.	0-1	
12	Outdoor temp compensation Setting for activating the outdoor temperature compensation function.	0-1	
13	Outdoor airflow compensation Setting for activating the outdoor airflow compensation function.	0-1	
14	Auto. Summer/winter switch Setting for activating the automatic switch between summer/winter time function.	0-1	
15	Switch clock func. Setting for switch clock function type. 0=Stop - low speed - high speed. 1=Low speed - high speed.	0-1	
16	Internal fire alarm func. Setting for activating the internal fire alarm function.	0-1	
17	EA at fire Setting for activating the extract air fan operation at fire function. (Moved to 4x0206 in PV 3.00)	0-1	
18	External alarm 1 active at closure Setting for external alarm number 1 condition to be activated. 0=Alarm at closed input. 1=Alarm at open input.	0-1	
19	External alarm 2 active at closure	0-1	

Binary Value (R/W).

Object Instance	Object Name	Min/Max	Misc
	Setting for external alarm number 2 condition to be activated. 0=Alarm at closed input. 1=Alarm at open input.		
20	Reserve BV3		
21	Dewpoint reg. func.	0-1	
	Setting for activating the dewpoint regulator funktion.		
22	Dehumid reg. func.	0-1	
	Setting for activating the dehumid regulator funktion.		
23	External fire alarm func.	0-1	
	Setting for external fire resetting function. 0=Manual. 1=Automatic.		
24	External alarm 1 func.	0-1	
	Setting for external alarm 1 resetting function. 0=Manual. 1=Automatic.		
25	External alarm 2 func.	0-1	
	Setting for external alarm 2 resetting function. 0=Manual. 1=Automatic.		
26	Temperature alarm func.	0-1	
	Setting for activating temperature below setpoint alarm function (no.80).		
27	Int. Night heat output func.	0-1	
	Setting for selecting the intermittent night heat output function. 0=IQnomic 1=IQnomic+		
28	AYC heat out comp. func.	0-1	
	Setting for selecting the AYC outdoor comp. heated water function. 0=Inactive 1=Active		
29	AYC heat room comp. func.	0-1	
	Setting for selecting the AYC room comp. heated water function. 0=Inactive 1=Active		
30	AYC heat room comp. night block func.	0-1	
	Setting for selecting the AYC room comp. heated water night block function. 0=Inactive 1=Active		
31	AYC heat night comp. func.	0-1	
	Setting for selecting the AYC night comp. heated water function. 0=Inactive 1=Active		
32	AYC heat valve signal func.	0-1	
	Setting for selecting the AYC valve signal heated water alarm function. 0=Inactive 1=Active		

Binary Value (R/W).

Object Instance	Object Name	Min/Max	Misc
33	AYC cool out comp. func.	0-1	
	Setting for selecting the AYC outdoor comp. chilled water function. 0=Inactive 1=Active		
34	AYC cool room comp. func.	0-1	
	Setting for selecting the AYC room comp. chilled water function. 0=Inactive 1=Active		
35	AYC cool room comp. night block func.	0-1	
	Setting for selecting the AYC room comp. chilled water night block function. 0=Inactive 1=Active		
36	AYC cool night comp. func.	0-1	
	Setting for selecting the AYC night comp. chilled water function. 0=Inactive 1=Active		
37	AYC cool valve signal func.	0-1	
	Setting for selecting the AYC valve signal chilled water alarm function. 0=Inactive 1=Active		
38	Reserve BV4		

Notification Class.

Object Instance	Object Name	Min/Max	Misc
0	NC 00 A-Alarm		PV 5.15
	Notification class for A-Alarm.		
1	NC 00 B-Alarm		PV 5.15
	Notification class for B-Alarm.		