BACnet IP
Compact/GOLD LP, program version 2.01 and newer versions.

Overview

This BACnet driver is implemented in Compact/GOLD LP PV2.01 and provides the function of monitoring and operating the air handling unit.
Compact/GOLD LP 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) and EDE (Engineering Data Exchange).

BACnet Interoperability Building Blocks Supported.

Data Sharing	DS-RP-B	Data Sharing-Read Property-B
Data Sharing	DS-WP-B	Data Sharing-Write Property-B
Data Sharing	DS-COV-B	Data Sharing-COV-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	_
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.
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.

Operation mode 1	AI 84
Communication operation mode	AV 174
Operation mode 2	AI 85
Operation output	BI 7
Low speed output	BI 3
High speed output	BI 4
Damper output	BI 8
Present tripped alarm	AI 78
A-alarm	BI 5
B-alarm	BI 6
Alarm reset	BV 0

Extract air filter pressure level	AI 52
EA filter pressure level limit	AI 53

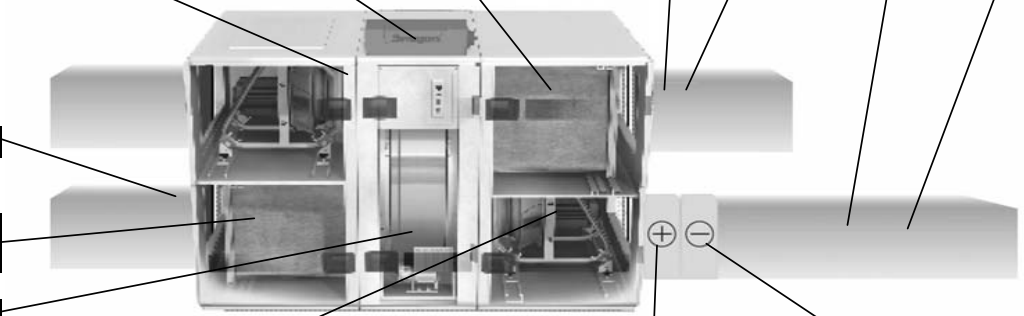
EA Duct pressure	AI 6
EA Low speed pressure setpoint	AV 12
EA High speed pressure setpoint	AV 13

EA/Room temperature	AI 28
EA/Room temperature setpoint	AV 41
SA Min temperature setpoint	AV 42
SA Max temperature setpoint	AV 43

SA Duct Pressure	AI 4
SA Low speed pressure setpoint	AV 8
SA High speed pressure setpoint	AV 9

SA Temperature	AI 27
SA Temperature setpoint	AV 40
ERS 1 Diff	AV 32

EA Airflow	AI 2
EA Fan level	AI 13
EA Low speed airflow setpoint	AV 4
EA High speed airflow setpoint	AV 5



Outdoor temperature	AI 29

Supply air filter pressure level	AI 49
SA filter pressure level limit	AI 50

Heat exchange regulator	AI 90

SA Airflow	AI 0
SA Fan level	AI 12
SA Low speed airflow setpoint	AV 0
SA High speed airflow setpoint	AV 1

Reheat level	AI 36
Heat output	BI 0
Anti frost temperature	AI 32

Cooling level	AI 39
Cool output 1	BI 1
Cool output 2	BI 2

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
0	**SA Airflow**	0-1000l/s
	Present supply airflow.	
1	**SA Airflow regulator**	0-1000l/s
	Present supply airflow regulator setpoint.	
2	**EA Airflow**	0-1000l/s
	Present extract airflow.	
3	**EA Airflow regulator**	0-1000l/s
	Present extract airflow regulator setpoint.	
4	**SA Duct pressure**	0-2000Pa
	Present supply air duct pressure.	
5	**SA Duct pressure regulator**	0-2000Pa
	Present supply air duct pressure regulator setpoint.	
6	**EA Duct pressure**	0-2000Pa
	Present extract air duct pressure.	
7	**EA Duct pressure regulator**	0-2000Pa
	Present extract air duct pressure regulator setpoint.	
8	**Reserve**	
9	**SA VAV demand regulator**	0-100.00%
	Present supply air VAV demand regulator setpoint.	
10	**Reserve**	
11	**EA VAV demand regulator**	0-100.00%
	Present extract air VAV demand regulator setpoint.	
12	**SA Fan level**	0-100.00%
	Present running level for the supply air fan.	
13	**EA Fan level**	0-100.00%
	Present running level for the extract air fan.	
14	**SA Fan effect**	0-500W
	Present power consumption level for the supply air fan.	
15	**EA Fan effect**	0-500W
	Present power consumption level for the extract air fan.	
16	**SFP**	0.0-9.9
	SFP supply air + extract air.	
17	**Reserve**	
18	**Reserve**	
19	**SA Voltage**	0-500V
	Present voltage level for the supply air fan.	
20	**EA Voltage**	0-500V
	Present voltage level for the extract air fan.	
21	**SA Current**	0-2.000A
	Present current level for the supply air fan.	
22	**EA Current**	0-2.000A
	Present current level for the extract air fan.	
23	**SA Airflow pressure**	0-2000Pa
	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.	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
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	**Reserve**	
34	**Reserve**	
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	**Reserve**	
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
	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

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
	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	**Reserve**	
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
	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).	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
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**	02 - 08
	Present supply air fan size.	
83	**EA Fan size**	02 - 08
	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.	
85	**Operation mode 2**	0 - 24

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
	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=Cooling pressure reduction. 21=Startup extract air fan. 22=Reserve. 23=Airing. 24=Heating.	
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.	
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.	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
95	**AYC chilled water temperature regulator**	-55.00-125.00°C
	Present AYC chilled water temperature regulator setpoint.	
96	**AYC chilled water output**	0-100.00%
	Present level of AYC chilled water valve output.	
97	**Supply air-dewpoint regulator**	-55.00-125.00°C
	Present supply air-dewpoint regulator setpoint.	
98	**Supply air-humidity**	0-100.00%
	Present level of supply air-humidity	
99	**Supply air-humidity temperature**	-55.00-125.00°C
	Present temperature inside supply air-humidity sensor.	
100	**Supply air-dewpoint**	-55.00-125.00°C
	Calculated supply air-dewpoint.	
101	**Reserve**	
102	**Reserve**	
103	**Reserve**	
104	**Reserve**	
105	**R.HX. Efficiency**	0-100.00%
	Calculated level of rotary heat exchanger efficiency.	
106	**Reserve**	
107	**Reserve**	
108	**Supply air prefilter pressure level**	0-2000Pa
	Present supply air prefilter pressure drop.	
109	**Supply air prefilter pressure alarm limit.**	0-2000Pa
	Present supply air prefilter pressure alarm limit.	
110	**Supply air prefilter pressure level, new**	0-2000Pa
	Supply air prefilter pressure saved from calibration.	
111	**Extract air prefilter pressure level**	0-2000Pa
	Present extract air prefilter pressure drop.	
112	**Extract air prefilter pressure alarm limit.**	0-2000Pa
	Present extract air prefilter pressure alarm limit.	
113	**Extract air prefilter pressure level, new**	0-2000Pa
	Extract air prefilter pressure saved from calibration.	
114	**Reserve**	
115	**Reserve**	
116	**Reserve**	
117	**Reserve**	
118	**Reserve**	
119	**Reserve**	
120	**Reserve**	

Analog Inputs (RO).

Object Instance	Object Name	Min/Max
121	**Reserve**	
122	**Reserve**	
123	**Reserve**	
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	**Reserve**	
128	**Reserve**	
129	**Reserve**	
130	**Reserve**	
131	**Reserve**	
132	**Reserve**	
133	**Preheat operation time**	0-9999
	Present operation time for preheat, measured in minutes and present in days (24h).	
134	**Reserve**	
135	**Reserve**	
136	**Demand VOC Level**	0-100.00%
	Present level of demand VOC input.	
137	**Demand Vin Level**	0-100.00%
	Present level of demand 0-10VDC input.	
138	**SA Filter level calculated**	0-100.00%
	Present level of calculated supply air filter.	
139	**EA Filter level calculated**	0-100.00%
	Present level of calculated extract air filter.	
140	**AYC heat temperature**	-55.00-125.00°C
	Present AYC heat temperature.	
141	**AYC heat temp regulator**	-55.00-125.00°C
	Present AYC heat temperature regulator setpoint.	
142	**AYC heat valve output**	0-100.00%
	Present level of AYC heat valve output.	

Analog Value (R/W).

Object Instance	Object Name	Min/Max
0	**SA Low speed airflow setpoint**	0-1000l/s
	Supply airflow setpoint for the unit when running in low speed operation.	
1	**SA High speed airflow setpoint**	0-1000l/s
	Supply airflow setpoint for the unit when running in high speed operation.	
2	**SA Max speed airflow setpoint**	0-1000l/s
	Supply airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	
3	**SA Min speed airflow setpoint**	0-1000l/s
	Supply airflow min. limit for the unit when the low/high speed operation setpoint is altered when running in fan regulation mode VAV demand.	
4	**EA Low speed airflow setpoint**	0-1000l/s
	Extract airflow setpoint for the unit when running in low speed operation.	
5	**EA High speed airflow setpoint**	0-1000l/s
	Extract airflow setpoint for the unit when running in high speed operation.	
6	**EA Max speed airflow setpoint**	0-1000l/s
	Extract airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	
7	**EA Min speed airflow setpoint**	0-1000l/s
	Extract airflow min. limit for the unit when the low/high speed operation setpoint is altered when running in fan regulation mode VAV demand.	
8	**SA Low speed pressure setpoint**	0-750Pa
	Supply air duct pressure setpoint for the unit when running in low speed operation.	
9	**SA High speed pressure setpoint**	20-750Pa
	Supply air duct pressure for the unit when running in high speed operation.	
10	**SA Max speed output signal**	10.00-100.00%
	Max. limit for the supply air fan speed when running in pressure regulation mode.	
11	**SA Max speed pressure setpoint**	20-750Pa
	Supply air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	
12	**EA Low speed pressure setpoint**	0-750Pa
	Extract air duct pressure setpoint for the unit when running in low speed operation.	
13	**EA High speed pressure setpoint**	20-750Pa
	Extract air duct pressure setpoint for the unit when running in high speed operation.	
14	**EA Max speed output signal**	10.00-100.00%
	Max. limit for the extract air fan speed when running in pressure regulation mode.	
15	**EA Max speed pressure setpoint**	20-750Pa
	Extract air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.	
16	**SA Low speed demand setpoint**	0-100.00%

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	Supply air setpoint for the 0-10V input signal on terminal 35..37 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 35..37 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 35..37 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 35..37 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 accordning to the diagram for ERS 1.	
33	**ERS 1 Breakpoint**	12.00 - 26.00°C
	Breakpoint setting accordning to the diagram for ERS 1.	
34	**ERS 2 Breakpoint X1**	10.00-38.00°C
	Breakpoint X1 setting accordning to the diagram for ERS 2.	
35	**ERS 2 Breakpoint Y1**	10.00-40.00°C
	Breakpoint Y1 setting accordning to the diagram for ERS 2.	
36	**ERS 2 Breakpoint X2**	11.00-39.00°C
	Breakpoint X2 setting accordning 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
	Breakpoint Y2 setting accordning to the diagram for ERS 2.	
38	**ERS 2 Breakpoint X3**	12.00-40.00°C
	Breakpoint X3 setting accordning to the diagram for ERS 2.	
39	**ERS 2 Breakpoint Y3**	10.00-40.00°C
	Breakpoint Y3 setting accordning 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	**Reserve**	
51	**Reserve**	0.000 - 2.500
52	**Reserve**	0.000 - 2.500
53	**Reserve**	0.000 - 2.500
54	**SA Down regulation Reg C-factor**	0.000 - 2.500
	Supply air reheat regulator affection setting.	
55	**Reserve**	
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
	Extract air/room cool regulator affection setting.	
58	**SA Cooling boost C-factor**	0.000 - 2.500
	Supply air cooling boost affection setting.	

Analog Value (R/W).

Object Instance	Object Name	Min/Max
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	**Reserve**	
62	**Reserve**	
63	**Cooling off set.**	10 - 50%
	Cooling off airflow setting in % of max. airflow.	
64	**SA Down regulation neautral 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**	0-1000l/s
	Supply air min. air flow setting for cooling.	
70	**EA Cool min air flow**	0-1000l/s
	Extract air min. air flow setting for cooling.	
71	**Heating boost start limit**	2.00-10.00°C
	Heating boost start temperature limit.	
72	**Cooling boost start limit**	2.00-10.00°C
	Cooling boost (comfort) start temperature limit.	
73	**SA Filter alarm limit**	0-1000Pa
	Supply air filter pressure alarm limit setting.	
74	**EA Filter alarm limit**	0-1000Pa
	Extract air filter pressure alarm limit setting.	
75	**Int. Night heat room start temp**	5.00-40.00°C
	Intermittent night heat function, extract air temperature setting for start.	
76	**Int. Night heat room stop temp**	5.00-40.00°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**	0-1000l/s
	Intermittent night heat function, supply airflow setpoint during night heat.	
79	**Int. Night heat EA airflow setpoint**	0-1000l/s
	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

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	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	**Reserve**	
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**	
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.	
99	**ERS Step**	1 - 4
	Setting of curve when temperature is above breakpoint.	
100	**Temperature regulation mode.**	0 - 3

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	Setting of temperature regulation type. 0=ERS 1 reg. 1=ERS 2 reg. 2=SA reg. 3=EA/Room reg.	
101	**Cooling off periode**	60 - 1500s
	Time setting for cooling off electrical heating coil.	
102	**Cool step time**	0 - 600s
	Time setting between cool step shift.	
103	**Cool restart time**	60 - 900s
	Setting of time between two starts of the cool relays.	
104	**Cool regulation mode**	0 - 4
	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	
105	**Heating boost regulation mode.**	0 - 1
	Setting for heating boost function. 0=Inactive. 1=Active.	
106	**Cooling boost regulation mode.**	0 - 5
	Setting of cooling boost regulation type. 0=Inactive. 1=Comfort. 2=Economy. 3=Sequence. 4=Comfort+economy. 5=Economy+sequence.	
107	**Filter calibration mode**	0 - 4
	Setting for required filter calibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter. 4=HX.	
108	**Air adjustment time, minutes**	0 - 1728
	Setting for amount of minutes to air adjustment function.	
109	**Air adjustment time, hours**	0 - 72
	Setting for amount of hours to air adjustment function.	
110	**Handterminal language**	0 - 18

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	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 18=Türkçe	
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	**Reserve**	
116	**Reserve**	
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
	Setting of air flow unit presented in the unit's handterminal and WEB. 0=l/s. 1=m3/s. 2=m3/h.	
123	**Reserve**	
124	**Year**	2000-2099
	Setting for the unit's internal clock.	

Analog Value (R/W).

Object Instance	Object Name	Min/Max
125	**Month**	1-12
	Setting for the unit's internal clock.	
126	**Date**	0-31
	Setting for the unit's internal clock.	
127	**Hour**	0-23
	Setting for the unit's internal clock.	
128	**Minute**	0-59
	Setting for the unit's internal clock.	
129	**Second**	0-59
	Setting for the unit's internal clock.	
130	**Time channel 1 status**	0-10,16-26
	Low speed **High speed** 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
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

Analog Value (R/W).

Object Instance	Object Name	Min/Max
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**	0-23
	Setting for extended low speed operation.	
171	**Extended low speed op. Minutes**	0-59
	Setting for extended low speed operation.	
172	**Extended high speed op. Hours**	0-23
	Setting for extended low speed operation.	
173	**Extended high speed op. Minutes**	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. 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	
181	**Copy of Coil Statust 17-32**	0-65535
	Bit 0=1x00017 Bit 1=1x00018 Bit 15=1x0032	
182	**Copy of Coil Status 33-48**	0-65535
	Bit 0=1x00033 Bit 1=1x00034 Bit 15=1x0048	
183	**Heat relay periodic func.**	0-3

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)	
184	**Cool relay 1 periodic func.**	0-3
	Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)	
185	**Cool relay 2 periodic func.**	0-3
	Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)	
186	**Slave control C-factor**	0.5 - 2.0
	Slave regulator affection setting.	
187	**SA dehumid P-band**	1.00 - 40.00
	SA dehumid regulator P-band setting.	
188	**SA dehumid C-factor**	0.000 - 2.500
	SA dehumid regulator affection setting.	
189	**Dewpoint reg. P-band**	1.00 - 40.00
	Dewpoint regulator P-band setting.	
190	**Dewpoint reg. C-factor**	0.000 - 2.500
	Dewpoint regulator affection setting.	
191	**AYC chilled water temperature**	5.00-30.00°C
	Setting of AYC chilled water temperature setpoint.	
192	**Dewpoint neutralzone**	0.00-5.00°C
	Dewpoint neutralzone setting.	
193	**Comp. airflow**	0-30.00%
	Setting of comp. airflow.	
194	**Supply air-humidity**	10.00-90.00%
	Setting of supply air-humidity.	
195	**Water heating periodic op. time**	0-60min
	Setting of periodic op. time (minute).	
196	**Water heating interval**	0-168h
	Setting of water heating interval time (hour).	
197	**Cool periodic op. time**	0-60min
	Setting of periodic op. time (minute).	
198	**Cool interval**	0-168h
	Setting of cool interval time (hour).	
199	**Reserve**	
200	**EA/Room temperature (external) func.**	0-2
	Setting of EA/Room temperature (external) function. 0= Inactive. 1= IQnomic. 2= Communication (4x0202).	
201	**EA/Room temperature com.**	-55.00-125.00°C
	Setting of EA/Room temperature via communication.	
202	**Outdoor temperature (external) func.**	0-2

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	Setting of outdoor temperature (external) function. 0= Inactive. 1= IQnomic. 2= Communication (4x0204).	
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 (4x0202, 4x0204).	
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.**	10.00-100.00%
	Setting of supply air speed at fire.	
208	**EA speed at fire.**	10.00-100.00%
	Setting of extract air speed at fire.	
209	**Reserve**	
210	**Reserve**	
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
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

Analog Value (R/W).

Object Instance	Object Name	Min/Max
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
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

Analog Value (R/W).

Object Instance	Object Name	Min/Max
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.**	10-1000Pa
	Supply air prefilter pressure alarm limit setting.	
306	**EA prefilter alarm limit.**	10-1000Pa
	Extract air prefilter pressure alarm limit setting.	
307	**Prefilter calibration mode.**	0 - 3
	Setting for requiered filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter.	
308	**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.	
309	**Preheating setpoint.**	-30.00-30.00°C
	Setting of preheating temperature setpoint.	
310	**Preheat P-band.**	1.00 - 40.00
	Preheat regulator P-band setting.	
311	**Preheat C-factor.**	0.000 - 2.500

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	Preheat regulator affection setting.	
312	**SA Filter calculated alarm level**	5.00-20.00%
	Supply air filter calculated alarm limit setting.	
313	**EA Filter calculated alarm level**	5.00-20.00%
	Extract air filter calculated alarm limit setting.	
314	**Mode digital output relay 1**	0-8
	Setting of mode output relay 1 function. 0=Damper. 1=Operation. 2=Low speed. 3=High speed. 4=Alarm A. 5=Alarm B. 6=Heating. 7=Cooling 1. 8=Cooling 2.	
315	**Mode digital output relay 2**	0-8
	Setting of mode output relay 2 function. 0=Damper. 1=Operation. 2=Low speed. 3=High speed. 4=Alarm A. 5=Alarm B. 6=Heating. 7=Cooling 1. 8=Cooling 2.	
316	**Mode digital input 1**	0-6
	Setting of mode input 1 function. 0=Stop. 1=Low speed. 2=High speed. 3=Alarm 1. 4=Alarm 2. 5=Reset. 6=Fire.	
317	**Mode digital input 2**	0-6
	Setting of mode input 2 function. 0=Stop. 1=Low speed. 2=High speed. 3=Alarm 1. 4=Alarm 2. 5=Reset. 6=Fire.	
318	**Manual morning boost time hour**	0-23
	Setting of manual morning boost time before normal operation.	
319	**Manual morning boost time minutes**	0-59
	Setting of manual morning boost time before normal operation.	
320	**Airing temp set**	10.00-20.00°C
	Setting of airing temperature setpoint.	
321	**Airing time set**	10-60

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	Setting of airing time in minutes.	
322	**Manual operation drift mode**	0-4
	Setting of manual operation drift mode. 0=Normal operation. 1=Extended operation. 2=Airing. 3=Heating. 4=Heating+Recirc.	
323	**AYC function.**	0 - 3
	Setting of AYC function. 0=Inactive. 1=Cool. 2=Heat. 3=Cool+heat.	
324	**AYC heat temp set.**	10.00-80.00°C
	Setting of AYC heated water temperature setpoint.	
325	**AYC night comp. channel.**	1 - 2
	Setting of AYC night compensation channel. 1=Channel 1. 2=Channel 2.	
326	**AYC channel start hour.**	0-23h
	Setting of AYC channel start time (hour).	
327	**AYC channel start minute.**	0-59min
	Setting of AYC channel start time (minute).	
328	**AYC channel stop hour.**	0-23h
	Setting of AYC channel stop time (hour).	
329	**AYC channel stop minute.**	0-59min
	Setting of AYC channel stop time (minute).	
330	**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	
331	**AYC heat P-band.**	1.00 - 40.00
	AYC heat regulator P-band setting.	
332	**AYC heat C-factor.**	0.000 - 2.500
	AYC heat regulator affection setting.	
333	**AYC cool P-band.**	1.00 - 40.00
	AYC cool regulator P-band setting.	
334	**AYC cool C-factor.**	0.000 - 2.500
	AYC cool regulator affection setting.	
335	**AYC heat out comp. X1.**	-40.00-40.00°C
	AYC outdoor compensation of heated water, outdoor temp X1 setting.	
336	**AYC heat out comp. Y1.**	10.00-80.00°C

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	AYC outdoor compensation of heated water, heated water temp Y1 setting.	
337	**AYC heat out comp. X2.**	-40.00-40.00°C
	AYC outdoor compensation of heated water, outdoor temp X2 setting.	
338	**AYC heat out comp. Y2.**	10.00-80.00°C
	AYC outdoor compensation of heated water, heated water temp Y2 setting.	
339	**AYC heat out comp. X3.**	-40.00-40.00°C
	AYC outdoor compensation of heated water, outdoor temp X3 setting.	
340	**AYC heat out comp. Y3.**	10.00-80.00°C
	AYC outdoor compensation of heated water, heated water temp Y3 setting.	
341	**AYC heat room comp. temp limit.**	0.00-40.00°C
	AYC room compensation of heated water, heated water temp limit setting.	
342	**AYC heat room comp P-band.**	1.00-10.00°C
	AYC room compensation of heated water, heated water P-band setting.	
343	**AYC heat night comp temp.**	-10.00-10.00°C
	AYC night compensation of heated water, heated water night setting.	
344	**AYC heat pump on temp.**	-40.00-40.00°C
	AYC pump operation of heated water, outdoor temp start setting.	
345	**AYC heat pump off temp.**	-40.00-40.00°C
	AYC pump operation of heated water, outdoor temp stop setting.	
346	**AYC heat pump alarm.**	0 - 3
	Setting for selecting the AYC heated water pump alarm function. 0=Inactive. 1=Open. 2=Closed. 3=Contactor.	
347	**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.	
348	**AYC heat per op time.**	0-60min
	AYC periodic operation of heated water, time (minute) setting.	
349	**AYC heat per op interval.**	0-168h
	AYC periodic operation of heated water, interval time (hour) setting.	
350	**AYC cool out comp. X1.**	-40.00-40.00°C
	AYC outdoor compensation of chilled water, outdoor temp X1 setting.	
351	**AYC cool out comp. Y1.**	10.00-80.00°C

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	AYC outdoor compensation of chilled water, chilled water temp Y1 setting.	
352	**AYC cool out comp. X2.**	-40.00-40.00°C
	AYC outdoor compensation of chilled water, outdoor temp X2 setting.	
353	**AYC cool out comp. Y2.**	10.00-80.00°C
	AYC outdoor compensation of chilled water, chilled water temp Y2 setting.	
354	**AYC cool out comp. X3.**	-40.00-40.00°C
	AYC outdoor compensation of chilled water, outdoor temp X3 setting.	
355	**AYC cool out comp. Y3.**	10.00-80.00°C
	AYC outdoor compensation of chilled water, chilled water temp Y3 setting.	
356	**AYC cool room comp. temp limit.**	0.00-40.00°C
	AYC room compensation of chilled water, chilled water temp limit setting.	
357	**AYC cool room comp. P-band.**	1.00-10.00°C
	AYC room compensation of chilled water, chilled water P-band setting.	
358	**AYC cool night comp temp.**	-10.00-10.00°C
	AYC night compensation of chilled water, chilled water night setting.	
359	**AYC cool pump on temp.**	-40.00-40.00°C
	AYC pump operation of chilled water, outdoor temp start setting.	
360	**AYC cool pump off temp.**	-40.00-40.00°C
	AYC pump operation of chilled water, outdoor temp stop setting.	
361	**AYC cool pump alarm.**	0 - 3
	Setting for selecting the AYC chilled water pump alarm function. 0=Inactive. 1=Open. 2=Closed. 3=Contactor.	
362	**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.	
363	**AYC cool per op time.**	0-60min
	AYC periodic operation of chilled water, time (minute) setting.	
364	**AYC cool per op interval.**	0-168h
	AYC periodic operation of chilled water, interval time (hour) setting.	
365	**IO-mod 3 output 1 function.**	0 - 10

Analog Value (R/W).

Object Instance	Object Name	Min/Max
	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.	
366	**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.	

Binary Inputs (RO).

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

Binary Inputs (RO).

Object Instance	Object Name	Min/Max
27	**Reserve 12**	
28	**Pre-heat output**	0-1
	Status for relay output.	
29	**Recirculation output**	0-1
	Status for I/O-module no. 3 relay 1 output.	
30	**Booster output**	0-1
	Status for I/O-module no. 3 relay 2 output.	
31	**IO-mod 3 output 1**	0-1
	Status for I/O-module no. 3 relay 1 output.	
32	**IO-mod 3 output 2**	0-1
	Status for I/O-module no. 3 relay 2 output.	
33	**Reserve 13**	
34	**Reserve 14**	
35	**Reserve 15**	
36	**Reserve 16**	
37	**Reserve 17**	
38	**Reserve 18**	
39	**Reserve 19**	
40	**Reserve 20**	
41	**Reserve 21**	
42	**Reserve 22**	
43	**Reserve 23**	
44	**Reserve 24**	
45	**Reserve 25**	
46	**Reserve 26**	
47	**Reserve 27**	
48	**Alarm number 1**	0-1
	Status if alarm number 1 is active.	
49	**Alarm number 2**	0-1
	Status if alarm number 2 is active.	
50	**Alarm number 3**	0-1
	Status if alarm number 3 is active.	
247	**Alarm number 200**	0-1
	Status if alarm number 200 is active.	
248	**Info number 1**	0-1

Binary Inputs (RO).

Object Instance	Object Name	Min/Max
	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
0	**Alarm reset**	0-1
	Resets tripped alarms.	
1	**R.HX. Defrost func.**	0-1
	Setting for activating the defrost function for the rotary heat exchanger.	
2	**Cool operation mode**	0-1
	Setting for cooling between off and auto operation.	
3	**Int. Night heat func.**	0-1
	Setting for activating the intermittent night heat function.	
4	**Damper func.**	0-1
	Setting for activating the damper output relay during int. night heat.	
5	**Summer night cooling**	0-1
	Setting for activating the suumer night cool function.	
6	**Outdoor temp compensation**	0-1
	Setting for activating the outdoor temperature compensation function.	
7	**Outdoor airflow compensation**	0-1
	Setting for activating the outdoor airflow compensation function.	
8	**Auto. Summer/winter switch**	0-1
	Setting for activating the automatic switch between summer/winter time function.	
9	**Switch clock func.**	0-1
	Setting for switch clock function type. 0=Stop - low speed - high speed. 1=Low speed - high speed.	
10	**Internal fire alarm func.**	0-1
	Setting for activating the internal fire alarm function.	
11	**External alarm 1 active at closure**	0-1
	Setting for external alarm number 1 condition to be activated. 0=Alarm at closed input. 1=Alarm at open input.	
12	**External alarm 2 active at closure**	0-1
	Setting for external alarm number 2 condition to be activated. 0=Alarm at closed input. 1=Alarm at open input.	
13	**Dewpoint reg. func.**	0-1
	Setting for activating the dewpoint regulator funktion.	
14	**Dehumid reg. func.**	0-1
	Setting for activating the dehumid regulator funktion.	
15	**External fire alarm func.**	0-1
	Setting for external fire resetting function. 0=Manual. 1=Automatic.	
16	**External alarm 1 func.**	0-1
	Setting for external alarm 1 resetting function. 0=Manual. 1=Automatic.	
17	**External alarm 2 func.**	0-1
	Setting for external alarm 2 resetting function. 0=Manual. 1=Automatic.	
18	**Int. Night heat output func.**	0-1

Binary Value (R/W).

Object Instance	Object Name	Min/Max
	Setting for selecting the intermittent night heat output function. 0=IQnomic 1=IQnomic+	
19	**Morningboost damper func.**	0-1
	Setting for activating the morningboost damper function. 0= Inactive. 1= Active.	
20	**Morningboost extract func.**	0-1
	Setting for activating the morningboost extract air fan function. 0= Inactive. 1= Active.	
21	**Filter func.**	0-1
	Setting for filter between calculated and pressure sensors. 0=Calculated. 1=Pressure sensors.	
22	**Iqnomic Plus module no.6 Cooling**	0-1
	Setting for activating Iqnomiq Plus no.6 Cooling module. 0=Inactive. 1=Active.	
23	**Airing auto func.**	0-1
	Setting for activating the airing auto function. 0=Inactive. 1=Active.	
24	**AYC heat out comp. func.**	0-1
	Setting for selecting the AYC outdoor comp. heated water function. 0=Inactive 1=Active	
25	**AYC heat room comp. func.**	0-1
	Setting for selecting the AYC room comp. heated water function. 0=Inactive 1=Active	
26	**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	
27	**AYC heat night comp. func.**	0-1
	Setting for selecting the AYC night comp. heated water function. 0=Inactive 1=Active	
28	**AYC heat valve signal func.**	0-1
	Setting for selecting the AYC valve signal heated water alarm function. 0=Inactive 1=Active	
29	**AYC cool out comp. func.**	0-1

Binary Value (R/W).

Object Instance	Object Name	Min/Max
	Setting for selecting the AYC outdoor comp. chilled water function. 0=Inactive 1=Active	
30	**AYC cool room comp. func.**	0-1
	Setting for selecting the AYC room comp. chilled water function. 0=Inactive 1=Active	
31	**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	
32	**AYC cool night comp. func.**	0-1
	Setting for selecting the AYC night comp. chilled water function. 0=Inactive 1=Active	
33	**AYC cool valve signal func.**	0-1
	Setting for selecting the AYC valve signal chilled water alarm function. 0=Inactive 1=Active	