METASYS N2 open COMPACT sizes 02-03, program version 1.00 and newer versions

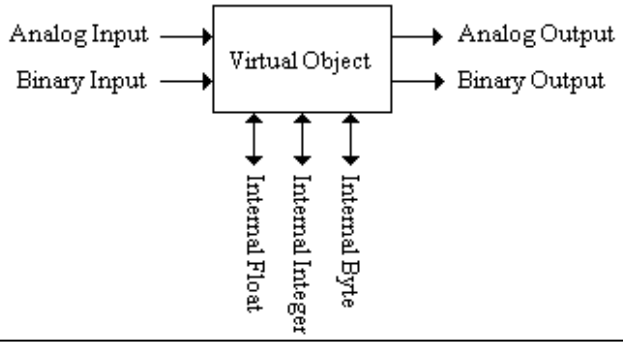
Metasys N2 open

Metasys nodes contains up to 256 Virtual Objects. These virtual objects can be either one of seven region types; 1) Analog Input, 2) Binary Input, 3) Analog Output, 4) Binary Output, 5) Internal Float, 6) Internal Integer and 7) Internal Byte. The Metasys N2 Master performs read and write commands to these Virtual Objects and performs cyclic polling of all the virtual objects as well.

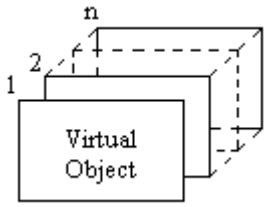
Metasys N2 open Virtual Objects

A virtual object contains data of a specific type. These types are called Regions. A Metasys N2 node may contain up to 256 Virtual Objects per region, which in all gives a total of 1792 virtual objects. In smaller systems it might be desirable to limit the number of virtual objects to reduce memory consumption.
The regions are defined as followed:

Region	Type	Short	Description
Region 1	Analog Input	AI	32 bit, IEEE-standard floats.
Region 2	Binary Input	BI	1 bit
Region 3	Analog Output	AO	32 bit, IEEE-standard floats.
Region 4	Binary Output	BO	1 bit
Region 5	Internal Float	IF	32 bit, IEEE-standard floats.
Region 6	Internal Integer	ADI	Signed 16 bit.
Region 7	Internal Byte	IB	8 bit.



The 7 regions of a Metasys Virtual Object.



A Metasys Node can contain up to 1792 Virtual Objects

Analog Input (AI).32 bit IEEE-standard floats (RO).

N2 Idx	Name	Min/Max	Misc
1	**SA Airflow**	0-360l/s	
	Present supply airflow.		
2	**SA Airflow regulator**	0-360l/s	
	Present supply airflow regulator setpoint.		
3	**EA Airflow**	0-360l/s	
	Present extract airflow.		
4	**EA Airflow regulator**	0-360l/s	
	Present extract airflow regulator setpoint.		
5	**SA Duct pressure**	0-750Pa	
	Present supply air duct pressure.		
6	**SA Duct pressure regulator**	0-750Pa	
	Present supply air duct pressure regulator setpoint.		
7	**EA Duct pressure**	0-750Pa	
	Present extract air duct pressure.		
8	**EA Duct pressure regulator**	0-750Pa	
	Present extract air duct pressure regulator setpoint.		
9	**Reserve**		
10	**SA VAV demand regulator**	0-100.00%	
	Present supply air VAV demand regulator setpoint.		
11	**Reserve**		
12	**EA VAV demand regulator**	0-100.00%	
	Present supply air VAV demand regulator setpoint.		
13	**SA Fan level**	0-100.00%	
	Present running level for the supply air fan.		
14	**EA Fan level**	0-100.00%	
	Present running level for the extract air fan.		
15	**SA Fan effect**	0-500W	
	Present power consumption level for the supply air fan.		
16	**EA Fan effect**	0-500W	
	Present power consumption level for the extract air fan.		
17	**SFP**	0.0-9.9	
	SFP supply air + extract air.		
18	**Reserve**		
19	**Reserve**		
20	**SA Voltage**	0-500V	
	Present voltage level for the supply air fan.		
21	**EA Voltage**	0-500V	
	Present voltage level for the extract air fan.		
22	**SA Current**	0-2.000A	
	Present current level for the supply air fan.		

23	**EA Current**	0-2.000A	
	Present current level for the extract air fan.		
24	**SA Airflow pressure**	0-3000Pa	
	Present airflow pressure in the supply air fan inlet.		
25	**EA Airflow pressure**	0-3000Pa	
	Present airflow pressure in the extract air fan inlet.		
26	**SA Temp regulator**	5.00-60.00°C	
	Present supply air temperature regulator setpoint.		
27	**EA Temp regulator**	5.00-40.00°C	
	Present extract air temperature regulator setpoint.		
28	**SA Temperature**	5.00-40.00°C	
	Present supply air temperature.		
29	**EA/Room temperature**	5.00-40.00°C	
	Present extract air/room temperature in the unit.		
30	**Outdoor temperatur**	5.00-40.00°C	
	Present outdoor air temperature in the unit.		
31	**EA/Room temperature (external)**	5.00-40.00°C	
	Present room temperature external from the unit.		
32	**Outdoor temperatur (external)**	5.00-40.00°C	
	Present outdoor air temperature external from the unit.		
33	**Anti frost temperature**	0-40.00°C	
	Present anti frost temperature for water reheating coils.		
34	**Reserve**		
35	**Reserve**		
36	**R. Heat exchange level**	0-100.00%	
	Present operation level from rotary heat exchange.		
37	**Reheat level**	0-100.00%	
	Present level of reheat.		
38	**SA Down regulation level**	0-100.00%	
	Present level of supply airflow down regulation.		
39	**Reserve**		
40	**Cooling level**	0-100.00%	
	Present level of cooling.		
41	**Heating boost level**	0-100.00%	
	Present level of heating boost.		
42	**Cooling boost level**	0-100.00%	
	Present level of cooling boost.		
43	**HX pressure level**	0-1000Pa	
	Present pressure drop for the rotary heat exchanger.		
44	**HX pressure alarm limit**	0-1000Pa	
	Present pressure drop alarm limit for the rotary heat exchanger.		
45	**HX temperature**	0-100.00°C	
	Present temperature inside the control unit for the rotary heat exchanger.		

46	**Effect reduction level**	0-100.00%	
	Present level of max output signal for electrical reheaters, active during low supply airflow.		
47	**Anti frost temp setpoint/operation**	10.00-16.00°C	
	Present anti frost temperature setpoint for water reheating coils during unit operation.		
48	**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.		
49	**Anti frost temp alarm limit**	5.00-30.00°C	
	Setting of antifrost temperature alarm limit.		
50	**Supply air filter pressure level**	0-3000Pa	
	Present supply air filter pressure drop.		
51	**Supply air filter pressure alarm limit.**	0-1000Pa	
	Present supply air filter pressure alarm limit.		
52	**Supply air filter pressure level, new**	0-1000Pa	
	Supply air filter pressure saved from calibration.		
53	**Extract air filter pressure level**	0-3000Pa	
	Present extract air filter pressure drop.		
54	**Extract air filter pressure alarm limit.**	0-1000Pa	
	Present extract air filter pressure alarm limit.		
55	**Extract air filter pressure level, new**	0-1000Pa	
	Extract air filter pressure saved from calibration.		
56	**Reserve**		
57	**Heat exchange regulator**	0-100.00%	
	Present level of heat exchange regulator.		
58	**Reserve**		
59	**Reserve**		
60	**Reserve**		
61	**Reserve**		
62	**Reserve**		
63	**Reserve**		
64	**Reserve**		
65	**Reserve**		
66	**Reserve**		
67	**Reserve**		

68	**Reserve**		
69	**Reserve**		
70	**Reserve**		
71	**Reserve**		
72	**R.HX. Efficiency**	0-100.00%	
	Calculated level of rotary heat exchanger efficiency.		
73	**Reserve**		
74	**Reserve**		
75	**Supply air prefilter pressure level**	0-3000Pa	
	Present supply air prefilter pressure drop.		
76	**Supply air prefilter pressure alarm limit.**	0-1000Pa	
	Present supply air prefilter pressure alarm limit.		
77	**Supply air prefilter pressure level, new**	0-1000Pa	
	Supply air prefilter pressure saved from calibration.		
78	**Extract air prefilter pressure level**	0-3000Pa	
	Present extract air prefilter pressure drop.		
79	**Extract air prefilter pressure alarm limit.**	0-1000Pa	
	Present extract air prefilter pressure alarm limit.		
80	**Extract air prefilter pressure level, new**	0-1000Pa	
	Extract air prefilter pressure saved from calibration.		
81	**Reserve**		
82	**Reserve**		
83	**Reserve**		
84	**Reserve**		
85	**Reserve**		
86	**Reserve**		
87	**Reserve**		
88	**Pre-heating air temperature**	0.00-40.00°C	
	Present pre-heating air temperature.		
89	**Pre-heating level**	0-100.00%	
	Present level of pre-heating.		
90	**Pre-heating anti frost temperature**	0-40.00°C	
	Present anti frost temperature for water pre-heating coils.		

91	**Reserve**		
92	**Reserve**		
93	**Reserve**		
94	**Reserve**		
95	**Reserve**		
96	**Reserve**		
97	**Demand VOC Level**	0-100.00%	
	Present level of demand VOC input.		
98	**Demand Vin Level**	0-100.00%	
	Present level of demand 0-10VDC input.		
99	**SA Filter level calculated**	0-100.00%	
	Present level of calculated supply air filter.		
100	**EA Filter level calculated**	0-100.00%	
	Present level of calculated extract air filter.		

Binary Input (BI). 1bit (RO).

N2 Idx	Name	Min/Max	Misc
1	**Heat output**	0-1	
	Status for relay output.		
2	**Cool output 1**	0-1	
	Status for relay output.		
3	**Cool output 2**	0-1	
	Status for relay output.		
4	**Low speed output**	0-1	
	Status for relay output.		
5	**High speed output**	0-1	
	Status for relay output.		
6	**A-alarm.**	0-1	
	Status for relay output.		
7	**B-alarm.**	0-1	
	Status for relay output.		
8	**Operation output**	0-1	
	Status for relay output.		
9	**Damper output**	0-1	
	Status for relay output.		
10	**External low speed input**	0-1	
	Status for digital input.		
11	**External high speed input**	0-1	
	Status for digital input.		
12	**External alarm 1 input**	0-1	
	Status for digital input.		
13	**External alarm 2 input**	0-1	
	Status for digital input.		
14	**External fire alarm input.**	0-1	
	Status for digital input.		
15	**External stop input**	0-1	
	Status for digital input.		
16	**DIP Switch 1**	0-1	
	Status for dip switch setting.		
17	**DIP Switch 2**	0-1	
	Status for dip switch setting.		
18	**DIP Switch 3**	0-1	
	Status for dip switch setting.		
19	**DIP Switch 4**	0-1	
	Status for dip switch setting.		
20	**DIP Switch 5**	0-1	
	Status for dip switch setting.		
21	**DIP Switch 6**	0-1	
	Status for dip switch setting.		
22	**Reserve 1**		

23	**Reserve 2**		
24	**Reserve**		
25	**R.HX rotation monitor**	0-1	
	Status from the rotation detector.		
26	**Reserve**		
27	**Reserve**		
28	**Reserve**		
29	**Pre-heat output**	0-1	
	Status for relay output.		
30	**Recirculation output**	0-1	
	Status for relay output.		
31	**Booster output**	0-1	
	Status for relay output.		
32	**Reserve 11**		
33	**Reserve 12**		
34	**Reserve 13**		
35	**Reserve 14**		
36	**Reserve 15**		
37	**Reserve 16**		
38	**Reserve 17**		
39	**Reserve 18**		
40	**Reserve 19**		
41	**Reserve 20**		
42	**Reserve 21**		
43	**Reserve 22**		
44	**Reserve 23**		
45	**Reserve 24**		

46	**Reserve 25**		
47	**Reserve 26**		
48	**Reserve 27**		
49	**Alarm number 1**	0-1	
	Status if alarm number 1 is active.		
50	**Alarm number 2**	0-1	
	Status if alarm number 2 is active.		
51	**Alarm number 3**	0-1	
	Status if alarm number 3 is active.		
52...227	**...**		
	...		
228	**Alarm number 180**	0-1	
	Status if alarm number 100 is active.		
229	**Info number 1**	0-1	
	Status if info number 1 is active.		
230	**Info number 2**	0-1	
	Status if info number 2 is active.		
231	**Info number 3**	0-1	
	Status if info number 3 is active.		
232...247	**...**		
	...		
248	**Info number 20**	0-1	
	Status if info number 100 is active.		

Analog Output (AO). 32bit IEEE-standard floats (R/W).

N2 Idx	Name	Min/Max	Misc
1	**SA Low speed airflow setpoint**	0-360l/s	
	Supply airflow setpoint for the unit when running in low speed operation.		
2	**SA High speed airflow setpoint**	0-360l/s	
	Supply airflow setpoint for the unit when running in high speed operation.		
3	**SA Max speed airflow setpoint**	0-360l/s	
	Supply airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
4	**SA Min speed airflow setpoint**	0-360l/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.		
5	**EA Low speed airflow setpoint**	0-360l/s	
	Extract airflow setpoint for the unit when running in low speed operation.		
6	**EA High speed airflow setpoint**	0-360l/s	
	Extract airflow setpoint for the unit when running in high speed operation.		
7	**EA Max speed airflow setpoint**	0-360l/s	
	Extract airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
8	**EA Min speed airflow setpoint**	0-360l/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.		
9	**SA Low speed pressure setpoint**	0-750Pa	
	Supply air duct pressure setpoint for the unit when running in low speed operation.		
10	**SA High speed pressure setpoint**	0-750Pa	
	Supply air duct pressure for the unit when running in high speed operation.		
11	**SA Max speed output signal**	10.00-100.00%	
	Max. limit for the supply air fan speed when running in pressure regulation mode.		
12	**SA Max speed pressure setpoint**	0-750Pa	
	Supply air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
13	**EA Low speed pressure setpoint**	0-750Pa	
	Extract air duct pressure setpoint for the unit when running in low speed operation.		
14	**EA High speed pressure setpoint**	0-750Pa	
	Extract air duct pressure setpoint for the unit when running in high speed operation.		
15	**EA Max speed output signal**	10.00-100.00%	
	Max. limit for the extract air fan speed when running in pressure regulation mode.		
16	**EA Max speed pressure setpoint**	0-750Pa	
	Extract air duct pressure max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
17	**SA Low 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 low speed operation.		

18	**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.		
19	**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.		
20	**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.		
21	**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.		
22	**SA Airflow C-factor**	0.005 - 2.500	
	Supply airflow regulator affection setting.		
23	**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.		
24	**EA Airflow C-factor**	0.005 - 2.500	
	Extract airflow regulator affection setting.		
25	**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.		
26	**SA Pressure C-factor**	0.005 - 2.500	
	Supply air pressure regulator affection setting.		
27	**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.		
28	**EA Pressure C-factor**	0.005 - 2.500	
	Extract air pressure regulator affection setting.		
29	**SA Demand P-band.**	1.00 - 100.00	
	Supply air demand regulator P-band setting.		
30	**SA Demand C-factor**	0.005 - 2.500	
	Supply air demand regulator affection setting.		
31	**EA Demand P-band.**	1.00 - 100.00	
	Extract air demand regulator P-band setting.		
32	**EA Demand C-factor**	0.005 - 2.500	
	Extract air demand regulator affection setting.		
33	**ERS 1 Diff**	1.00 - 7.00°C	
	Supply air temperature difference setting accordning to the diagram for ERS 1.		
34	**ERS 1 Breakpoint**	12.00 - 26.00°C	
	Breakpoint setting accordning to the diagram for ERS 1.		
35	**ERS 2 Breakpoint X1**	10.00-38.00°C	
	Breakpoint X1 setting accordning to the diagram for ERS 2.		
36	**ERS 2 Breakpoint Y1**	10.00-40.00°C	
	Breakpoint Y1 setting accordning to the diagram for ERS 2.		
37	**ERS 2 Breakpoint X2**	11.00-39.00°C	
	Breakpoint X2 setting accordning to the diagram for ERS 2.		

38	**ERS 2 Breakpoint Y2**	10.00-40.00°C	
39	**ERS 2 Breakpoint X3**	12.00-40.00°C	
40	**ERS 2 Breakpoint Y3**	10.00-40.00°C	
41	**SA Temperature setpoint**	10.00-40.00°C	
42	**EA/Room Temperature setpoint**	10.00-30.00°C	
	Extract air/room temperature setting, for Extract air/room temp regulation mode.		
43	**SA Min temp setpoint**	8.00-20.00°C	
	Supply air min.setpoint during EA/room regulation mode.		
44	**SA Max temp setpoint**	16.00-50.00°C	
	Supply air max.setpoint during EA/room regulation mode.		
45	**SA Temperature P-band**	1.00 - 40.00	
	Supply air temperature regulator P-band setting.		
46	**EA/Room Temperature P-band**	1.00 - 40.00	
	Extract air/room temperature regulator P-band setting.		
47	**SA HX. Reg C-factor**	0.000 - 2.500	
	Supply air heat exchange regulator affection setting.		
48	**EA/Room HX. Reg C-factor**	0.000 - 2.500	
	Extract air/room heat exchange regulator affection setting.		
49	**SA Heat Reg C-factor**	0.000 - 2.500	
	Supply air reheat regulator affection setting.		
50	**EA/Room Heat Reg C-factor**	0.000 - 2.500	
	Extract air/room reheat regulator affection setting.		
51	**Reserve**		
52	**Reserve**		
53	**Reserve**		
54	**Reserve**		
55	**SA Down regulation Reg C-factor**	0.000 - 2.500	
	Supply air reheat regulator affection setting.		
56	**Reserve**		
57	**SA Cool reg C-factor**	0.000 - 2.500	
	Supply air cool regulator affection setting.		

58	**EA/Room Cool reg C-factor**	0.000 - 2.500	
	Extract air/room cool regulator affection setting.		
59	**SA Cooling boost C-factor**	0.000 - 2.500	
	Supply air cooling boost affection setting.		
60	**EA/Room Cooling boost reg C-factor**	0.000 - 2.500	
	Extract air/room cooling boost regulator affection setting.		
61	**HX Pressure alarm set.**	30 - 100Pa	
	Heat exchange pressure alarm limit setting (alarm no.38).		
62	**Reserve**		
63	**Reserve**		
64	**Cooling off set.**	10 - 50%	
	Cooling off airflow setting in % of max. airflow.		
65	**SA Down regulation neautral zone**	0.00-10.00°C	
	Neutral zone setting before downregulation is permitted.		
66	**Cool Outdoor temp limit.1**	0.00-25.00°C	
	Outdoor temperature limit setting for cooling stage 1.		
67	**Cool Outdoor temp limit.2**	0.00-25.00°C	
	Outdoor temperature limit setting for cooling stage 2.		
68	**Cool Outdoor temp limit.3**	0.00-25.00°C	
	Outdoor temperature limit setting for cooling stage 3.		
69	**Temperature reg. Neutral zone**	0.50-10.00°C	
	Neutral zone setting before shift between heating and cooling.		
70	**SA Cool min air flow**	0-360l/s	
	Supply air min. air flow setting for cooling.		
71	**EA Cool min air flow**	0-360l/s	
	Extract air min. air flow setting for cooling.		
72	**Heating boost start limit**	2.00-10.00°C	
	Heating boost start temperature limit.		
73	**Cooling boost start limit**	2.00-10.00°C	
	Cooling boost (comfort) start temperature limit.		
74	**SA Filter alarm limit**	0-1000Pa	
	Supply air filter pressure alarm limit setting.		
75	**EA Filter alarm limit**	0-1000Pa	
	Extract air filter pressure alarm limit setting.		
76	**Int. Night heat room start temp**	5.00-40.00°C	
	Intermittent night heat function, extract air temperature setting for start.		
77	**Int. Night heat room stop temp**	5.00-40.00°C	
	Intermittent night heat function, extract air temperature setting for stop.		

78	**Int. Night heat SA temp setpoint**	5.00-40.00°C	
	Intermittent night heat function, supply air temperature setpoint during night heat.		
79	**Int. Night heat SA airflow setpoint**	0-360l/s	
	Intermittent night heat function, supply airflow setpoint during night heat.		
80	**Int. Night heat EA airflow setpoint**	0-360l/s	
	Intermittent night heat function, extract airflow setpoint during night heat.		
81	**Summer night cool EA start temp**	17.00-27.00°C	
	Summer night cool function, extract air temperature setting for start.		
82	**Summer night cool EA stop temp**	12.00-22.00°C	
	Summer night cool function, extract air temperature setting for stop.		
83	**Summer night cool outdoor temp limit**	5.00-15.00°C	
	Summer night cool function, outdoor temperature limit.		
84	**Summer night cool SA temp setpoint**	10.00-20.00°C	
	Summer night cool function, supply air temperature setpoint during summer night cool.		
85	**Outdoor temp comp. Winter X1.**	-30.00-(-10.00)°C	
	Endpoint of winter compensation.		
86	**Outdoor temp comp. Winter X2.**	-10.00-15.00°C	
	Startpoint of winter compensation.		
87	**Outdoor temp comp. Winter Y1.**	0.00-10.00°C	
	Level of winter compensation at X1.		
88	**Outdoor temp comp. Summer X3.**	15.00-25.00°C	
	Startpoint of summer compensation.		
89	**Outdoor temp comp. Summer X4.**	25.00-40.00°C	
	Endpoint of summer compensation.		
90	**Outdoor temp comp. Summer Y2.**	-10.00-10.00°C	
	Level of summer compensation at X4.		
91	**Outdoor airflow comp. Winter X1.**	-30.00-(-10.00)°C	
	Endpoint of winter compensation.		
92	**Outdoor airflow comp. Winter X2.**	-10.00-15.00°C	
	Startpoint of winter compensation.		
93	**Outdoor airflow comp. Winter Y1.**	0-50.00%	
	Level of airflow compensation at X1.		
94	**Reserve**		
95	**EA/Room min temp alarm limit**	8.00-20.00°C	
	Setting for min extract air /room temp alarm no.40.		
96	**SA Deviation alarm limit**	2.00-15.00°C	
	Setting for supply air temperature below present setpoint, alarm no.41.		
97	**Reserve**		
98	**Int. Night heat SA pressure setpoint**	20-750Pa	
	Intermittent night heat function, supply pressure setpoint during night heat.		

99	**Int. Night heat EA pressure setpoint**	20-750Pa	
	Intermittent night heat function, extract pressure setpoint during night heat.		
100	**Slave control C-factor**	0.5 - 1.5	
	Slave regulator affection setting.		
101	**Reserve**		
102	**Reserve**		
103	**Reserve**		
104	**Reserve**		
105	**Reserve**		
106	**Reserve**		
107	**Reserve**		
108	**Reserve**		
109	**Water heating periodic op. time**	0-60min	
	Setting of periodic op. time (minute).		
110	**Water heating interval**	0-168h	
	Setting of water heating intervall time (hour).		
111	**Reserve**		
112	**EA/Room temperature com.**	-55.00-125.00°C	
	Setting of EA/Room temperature via communication.		
113	**Outdoor temperature com.**	-55.00-125.00°C	
	Setting of outdoor temperature via communication.		
114	**SA speed at fire.**	50.00-100.00%	
	Setting of supply air speed at fire.		
115	**EA speed at fire.**	50.00-100.00%	
	Setting of extract air speed at fire.		
116	**Reserve**		
117	**Supply air min P-band.**	1.00 - 40.00	
	Supply air min regulator P-band setting.		
118	**Supply air min C-factor.**	0.000 - 2.500	
	Supply air min regulator affection setting.		
119	**Supply air max P-band.**	1.00 - 40.00	
	Supply air max regulator P-band setting.		
120	**Supply air max C-factor.**	0.000 - 2.500	
	Supply air max regulator affection setting.		
121	**SA prefilter alarm limit.**	10-1000Pa	
	Supply air prefilter pressure alarm limit setting.		

122	**EA prefilter alarm limit.**	10-1000Pa	
	Extract air prefilter pressure alarm limit setting.		
123	**Reserve**		
124	**Reserve**		
125	**Reserve**		
126	**Reserve**		
127	**Reserve**		
128	**Reserve**		
129	**Reserve**		
130	**Reserve**		
131	**Reserve**		
132	**Reserve**		
133	**Reserve**		
134	**Reserve**		
135	**Reserve**		
136	**Preheating setpoint.**	-30.00-30.00°C	
	Setting of preheating temperature setpoint.		
137	**Reserve**		
138	**Reserve**		
139	**Reserve**		
140	**Reserve**		
141	**Reserve**		
142	**Reserve**		
143	**Reserve**		
144	**Reserve**		

145	**Reserve**		
146	**Preheat P-band.**	1.00 - 40.00	
	Preheat regulator P-band setting.		
147	**Preheat C-factor.**	0.000 - 2.500	
	Preheat regulator affection setting.		
148	**Reserve**		
149	**Reserve**		
150	**Reserve**		
151	**Reserve**		
152	**Reserve**		
153	**Reserve**		
154	**Reserve**		
155	**Reserve**		
156	**SA Filter calculated alarm level**	5.00-20.00%	
	Supply air filter calculated alarm limit setting.		
157	**EA Filter calculated alarm level**	5.00-20.00%	
	Extract air filter calculated alarm limit setting.		
158	**Airing temp set**	10.00-20.00	
	Setting of airing temperature setpoint.		

Binary Output (BO). 1bit (R/W).

N2 Idx	Name	Min/Max	Misc
1	**Alarm reset**	0-1	
	Resets tripped alarms.		
2	**Reserve**		
3	**Reserve**		
4	**R.HX. Defrost func.**	0-1	
	Setting for activating the defrost function for the rotary heat exchanger. 0= Inactive. 1= Active.		
5	**Reserve**		
6	**Reserve**		
7	**Reserve**		
8	**Cool operation mode**	0-1	
	Setting for cooling between off and auto operation. 0= Inactive. 1= Auto operation.		
9	**Int. Night heat func.**	0-1	
	Setting for activating the intermittent night heat function. 0= Inactive. 1= Active.		
10	**Damper func.**	0-1	
	Setting for activating the damper output relay during int. night heat. 0= Inactive. 1= Active.		
11	**Summer night cooling**	0-1	
	Setting for activating the summer night cool function. 0= Inactive. 1= Active.		
12	**Reserve**		
13	**Outdoor temp compensation**	0-1	
	Setting for activating the outdoor temperature compensation function. 0= Inactive. 1= Active.		
14	**Outdoor airflow compensation**	0-1	
	Setting for activating the outdoor airflow compensation function. 0= Inactive. 1= Active.		
15	**Auto. Summer/winter switch**	0-1	
	Setting for activating the automatic switch between summer/winter time function. 0= Inactive. 1= Active.		

16	**Switch clock func.**	0-1	
	Setting for switch clock function type. 0=Stop - low speed - high speed. 1=Low speed - high speed.		
17	**Internal fire alarm func.**	0-1	
	Setting for activating the internal fire alarm function. 0= Inactive. 1= Active.		
18	**Reserve**		
19	**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.		
20	**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.		
21	**Reserve**		
22	**Reserve**		
23	**Reserve**		
24	**External fire alarm func.**	0-1	
	Setting for external fire resetting function. 0=Manual. 1=Automatic.		
25	**External alarm 1 func.**	0-1	
	Setting for external alarm 1 resetting function. 0=Manual. 1=Automatic.		
26	**External alarm 2 func.**	0-1	
	Setting for external alarm 2 resetting function. 0=Manual. 1=Automatic.		
27	**Reserve**		
28	**Reserve**		
29	**Morningboost damper func.**	0-1	
	Setting for activating the morningboost damper function. 0= Inactive. 1= Active.		
30	**Morningboost extract func.**	0-1	
	Setting for activating the morningboost extract air fan function. 0= Inactive. 1= Active.		

31	**Filter func.**	0-1	
	Setting for filter between calculated and pressure sensors. 0=Calculated. 1=Pressure sensors.		
32	**Iqnomic Plus module no.6 Cooling**	0-1	
	Setting for activating Iqnomiq Plus no.6 Cooling module. 0=Inactive. 1=Active.		
33	**Airing auto func.**	0-1	
	Setting for activating the airing auto function. 0=Inactive. 1=Active.		

Internal Integer (ADI).Signed 16bit.

N2 Idx	Name	Min/Max	R/W	Misc
1	**SA Fan regulation mode**	0 - 3	R/W	
	Setting of regulation type for the supply air fan . 0=Airflow reg, 1=Pressure reg, 2=Demand reg, 3=Slave controlled by EA fan.			
2	**EA Fan regulation mode**	0 - 3	R/W	
	Setting of regulation type for the extract air fan . 0=Airflow reg, 1=Pressure reg, 2=Demand reg, 3=Slave controlled by SA fan.			
3	**ERS Step**	1 - 4	R/W	
	Setting of curve when temperature is above breakpoint.			
4	**Temperature regulation mode.**	0 - 3	R/W	
	Setting of temperature regulation type. 0=ERS 1 reg, 1=ERS 2 reg, 2=SA reg, 3=EA/Room reg.			
5	**Cooling off periode**	60 - 1500s	R/W	
	Time setting for cooling off electrical heating coil.			
6	**Coil type**	0-20	R	
	Present connected reheat coil type.			
7	**Cool step time**	0 - 600s	R/W	
	Time setting between cool step shift.			
8	**Cool step time**	0-600s	R	
	Present time between cool step shift.			
9	**Cool restart time**	60 - 900s	R/W	
	Setting of time between two starts of the cool relays.			
10	**Cool relay 1 restart time**	0-1800s	R	
	Present time between two starts of cool relay 1.			
11	**Cool relay 2 restart time**	0-1800s	R	
	Present time between two starts of cool relay 2.			
12	**Cool regulation mode**	0 - 4	R/W	
	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			
13	**Heating boost regulation mode.**	0 - 1	R/W	
	Setting for heating boost function. 0=Deactive, 1=Active.			
14	**Cooling boost regulation mode.**	0 - 5	R/W	
	Setting of cooling boost regulation type. 0=Inactive. 1=Comfort. 2=Economy. 3=Sequence. 4=Comfort+economy 5=Economy+sequence			

15	**Filter calibration mode**	0 - 4	R/W	
	Setting for requiered filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter. 4=HX.			
16	**Air adjustment time, minutes**	0 - 1728	R/W	
	Setting for amount of minutes to air adjustment function.			
17	**Air adjustment time, hours**	0 - 72	R/W	
	Setting for amount of hours to air adjustment function.			
18	**Handterminal language**	0 - 18	R/W	
	0=Svenska 1=Norsk 2=Dansk 3=Suomi 4=English 5=Francaise 6=Deutsch 7=Polski 8=Cesky 9=Italiano 10=Espanol 11=Portugues 12=Русский 13=Eesti 14=Latviesu 15=Lietiviu 16=Nederlands 17=Hungarian 18=Turkce			
19	**Summer night cool start, hour**	0-23	R/W	
	Setting for start time of summer night cooling function.			
20	**Summer night cool start, minute**	0-59	R/W	
	Setting for start time of summer night cooling function.			
21	**Summer night cool stop, hour**	0-23	R/W	
	Setting for stop time of summer night cooling function.			
22	**Summer night cool stop, minute**	0-59	R/W	
	Setting for stop time of summer night cooling function.			
23	**Reserve**			
24	**Reserve**			
25	**Morning boost time, hours**	0-23	R/W	
	Setting of morning boost time before normal operation.			
26	**Morning boost time, minutes**	0-59	R/W	
	Setting of morning boost time before normal operation.			
27	**Startup time**	0 - 600s	R/W	
	Setting of time for startup when the unit regulator is running with fixed signals.			
28	**Start delay SA fan.**	0 - 600s	R/W	
	Setting of start delay time for the supply air fan.			

29	**Start delay EA fan.**	0 - 600s	R/W	
	Setting of start delay time for the extract air fan after supply air fan has started.			
30	**Programversion, HMI**	0-10.00	R	
	Present programversion for the handterminal.			
31	**Programversion, HMI-slave**	0-10.00	R	
	Present programversion for the extra handterminal.			
32	**Programversion, main controller.**	0-10.00	R	
	Present programversion for the main control unit.			
33	**Programversion, SA FC-1.**	0-10.00	R	
	Present programversion for the supply air frequency converter no.1.			
34	**Programversion, SA FC-2.**	0-10.00	R	
	Present programversion for the supply air frequency converter no.2.			
35	**Programversion, EA FC-1.**	0-10.00	R	
	Present programversion for the extract air frequency converter no.1.			
36	**Programversion, EA FC-2.**	0-10.00	R	
	Present programversion for the extract air frequency converter no.2.			
37	**Programversion, HX control unit**	0-10.00	R	
	Present programversion for the rotary heat exchange control unit.			
38	**Air flow unit**	0 -2	R/W	
	Setting of air flow unit presented in the unit's handterminal and WEB. 0=l/s, 1=m3/s, 2=m3/h.			
39	**Reserve**			
40	**Year**	2000-2099	R/W	
	Setting for the unit's internal clock.			
41	**Month**	1-12	R/W	
	Setting for the unit's internal clock.			
42	**Date**	0-31	R/W	
	Setting for the unit's internal clock.			
43	**Weekday**	0 - 6	R	
	Present weekday for the unit's internal clock.			
44	**Hour**	0-23	R/W	
	Setting for the unit's internal clock.			
45	**Minute**	0-59	R/W	
	Setting for the unit's internal clock.			
46	**Second**	0-59	R/W	
	Setting for the unit's internal clock.			

47	**Time channel 1 status**	0-10,16-26	R/W	
	Low speed **High speed** 0=Deactive 16=Deactive 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			
48	**Time channel 1 start hour**	0-23	R/W	
49	**Time channel 1 start minute**	0-59	R/W	
50	**Time channel 1 stop hour**	0-23	R/W	
51	**Time channel 1 stop minute**	0-59	R/W	
52	**Time channel 2 status**	0-10,16-26	R/W	
53	**Time channel 2 start hour**	0-23	R/W	
54	**Time channel 2 start minute**	0-59	R/W	
55	**Time channel 2 stop hour**	0-23	R/W	
56	**Time channel 2 stop minute**	0-59	R/W	
57	**Time channel 3 status**	0-10,16-26	R/W	
58	**Time channel 3 start hour**	0-23	R/W	
59	**Time channel 3 start minute**	0-59	R/W	
60	**Time channel 3 stop hour**	0-23	R/W	
61	**Time channel 3 stop minute**	0-59	R/W	
62	**Time channel 4 status**	0-10,16-26	R/W	
63	**Time channel 4 start hour**	0-23	R/W	
64	**Time channel 4 start minute**	0-59	R/W	
65	**Time channel 4 stop hour**	0-23	R/W	
66	**Time channel 4 stop minute**	0-59	R/W	
67	**Time channel 5 status**	0-10,16-26	R/W	
68	**Time channel 5 start hour**	0-23	R/W	
69	**Time channel 5 start minute**	0-59	R/W	
70	**Time channel 5 stop hour**	0-23	R/W	
71	**Time channel 5 stop minute**	0-59	R/W	
72	**Time channel 6 status**	0-10,16-26	R/W	
73	**Time channel 6 start hour**	0-23	R/W	
74	**Time channel 6 start minute**	0-59	R/W	
75	**Time channel 6 stop hour**	0-23	R/W	
76	**Time channel 6 stop minute**	0-59	R/W	
77	**Time channel 7 status**	0-10,16-26	R/W	
78	**Time channel 7 start hour**	0-23	R/W	
79	**Time channel 7 start minute**	0-59	R/W	
80	**Time channel 7 stop hour**	0-23	R/W	
81	**Time channel 7 stop minute**	0-59	R/W	
82	**Time channel 8 status**	0-10,16-26	R/W	
83	**Time channel 8 start hour**	0-23	R/W	
84	**Time channel 8 start minute**	0-59	R/W	

85	**Time channel 8 stop hour**	0-23	R/W	
86	**Time channel 8 stop minute**	0-59	R/W	
87	**Extended low speed op. Hours**	0-23	R/W	
	Setting for extended low speed operation.			
88	**Extended low speed op. Minutes**	0-59	R/W	
	Setting for extended low speed operation.			
89	**Extended low speed op. Hours**	0-23	R	
	Present time for extended low speed operation.			
90	**Extended low speed op. Minutes**	0-59	R	
	Present time for extended low speed operation.			
91	**Extended high speed op. Hours**	0-23	R/W	
	Setting for extended low speed operation.			
92	**Extended high speed op. Minutes**	0-59	R/W	
	Setting for extended low speed operation.			
93	**Extended high speed op. Hours**	0-23	R	
	Present time for extended high speed operation.			
94	**Extended high speed op. Minutes**	0-59	R	
	Present time for extended high speed operation.			
95	**Communication operation mode**	0 - 4	R/W	
	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.			
96	**SA Fan operation time**	0-9999	R	
	Present operation time for the supply air fan, measured in minutes and present in days (24h).			
97	**EA Fan operation time**	0-9999	R	
	Present operation time for the extract air fan, measured in minutes and present in days (24h).			
98	**Cool operation time**	0-9999	R	
	Present operation time for cooling, measured in minutes and present in days (24h).			
99	**Heat exchange operation time**	0-9999	R	
	Present operation time for heat exchange, measured in minutes and present in days (24h).			
100	**Reheat operation time**	0-9999	R	
	Present operation time for reheat, measured in minutes and present in days (24h).			
101	**Present tripped alarm**	0-200	R	
	Present tripped alarm number with highest priority.			
102	**Active not tripped alarm no.1**	0-200	R	
	Present active alarm in delay.			
103	**Active not tripped alarm no.2**	0-200	R	
	Present active alarm in delay.			
104	**Active not tripped alarm no.3**	0-200	R	
	Present active alarm in delay.			

105	**Service periode alarm.**	0-99	R/W	
	Setting for delay time in months before service alarm.			
106	**External alarm 1 delay**	1 - 600s	R/W	
	Setting of delay time for external alarm no 1			
107	**External alarm 2 delay**	1 - 600s	R/W	
	Setting of delay time for external alarm no 2			
108	**SA Fan size**	02 - 03	R	
	Present supply air fan size.			
109	**EA Fan size**	02 - 03	R	
	Present extract air fan size.			
110	**Operation mode 1**	0 - 18,255	R	
	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. 255=			
111	**Operation mode 2**	0 - 24	R	
	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.			

112	**Operation mode, manual**	0 - 3	R	
	Present manual operation set on the unit's handterminal. 0=Stop. 1=Auto operation. 2=Manual low speed. 3=Manual high speed.			
113	**Copy of Binary Input 1-16**	0-65535	R	
	Bit 0 = Binary Input 1 Bit 1 = Binary Input 2 Bit 15 = Binary Input 16			
114	**Copy of Binary Input 17-32**	0-65535	R	
	Bit 0 = Binary Input 17 Bit 1 = Binary Input 18 Bit 15 = Binary Input 32			
115	**Copy of Binary Input 33-48**	0-65535	R	
	Bit 0 = Binary Input 33 Bit 1 = Binary Input 34 Bit 15 = Binary Input 48			
116	**Copy of Binary Output 1-16**	0-65535	R/W	
	Bit 0 = Binary Output 1 Bit 1 = Binary Output 2 Bit 15 = Binary Output 16			
117	**Copy of Binary Output 17-32**	0-65535	R/W	
	Bit 0 = Binary Output 17 Bit 1 = Binary Output 18 Bit 15 = Binary Output 32			
118	**Copy of Binary Output 33-48**	0-65535	R/W	
	Bit 0 = Binary Output 33 Bit 1 = Binary Output 34 Bit 15 = Binary Output 48			
119	**Heat relay periodic func.**	0-3	R/W	
	Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)			
120	**Cool relay 1 periodic func.**	0-3	R/W	
	Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)			
121	**Cool relay 2 periodic func.**	0-3	R/W	
	Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve (PV 2.02)			
122	**Cool periodic op. time**	0-60min	R/W	
	Setting of periodic op. time (minute).			

123	**Cool interval**	0-168h	R/W	
	Setting of cool interval time (hour).			
124	**EA/Room temperature (external) func.**	0-2	R/W	
	Setting of EA/Room temperature (external) function. 0= Inactive. 1= Input signal on terminal 40..41. 2= Communication (AO 112).			
125	**Outdoor temperature (external) func.**	0-2	R/W	
	Setting of outdoor temperature (external) function. 0= Inactive. 1= Input signal on terminal 38..39. 2= Communication (AO 113).			
126	**Timeout temperature com.**	0-9999min	R/W	
	Setting of timeout for temperature via communication (AO 112, AO 113).			
127	**Flow at fire function.**	0-3	R/W	
	Setting for activating the air fan operation at fire function 0= Inactive. 1= SA. 2= EA. 3= SA+EA.			
128	**Air fan down regulation func.**	0-2	R/W	
	Setting for activating the air fan down regulation function 0= Inactive. 1= SA. 2= SA+EA.			
129	**Reserve**			
130	**Year channel 1 function.**	0 - 3	R/W	
	0 = Inactive. 1 = Stop. 2 = Low speed. 3 = High speed.			
131	**Year channel 1 start year.**	2000 - 2099	R/W	
132	**Year channel 1 start month.**	1 - 12	R/W	
133	**Year channel 1 start date.**	1 - 31	R/W	
134	**Year channel 1 start hour.**	0 - 23	R/W	
135	**Year channel 1 start minute.**	0 - 59	R/W	
136	**Year channel 1 stop year.**	2000 - 2099	R/W	
137	**Year channel 1 stop month.**	1 - 12	R/W	
138	**Year channel 1 stop date.**	1 - 31	R/W	
139	**Year channel 1 stop hour.**	0 - 23	R/W	
140	**Year channel 1 stop minute.**	0 - 59	R/W	
141	**Year channel 2 function.**	0 - 3	R/W	
142	**Year channel 2 start year.**	2000 - 2099	R/W	
143	**Year channel 2 start month.**	1 - 12	R/W	
144	**Year channel 2 start date.**	1 - 31	R/W	
145	**Year channel 2 start hour.**	0 - 23	R/W	
146	**Year channel 2 start minute.**	0 - 59	R/W	
147	**Year channel 2 stop year.**	2000 - 2099	R/W	
148	**Year channel 2 stop month.**	1 - 12	R/W	
149	**Year channel 2 stop date.**	1 - 31	R/W	

150	Year channel 2 stop hour.	0 - 23	R/W	
151	Year channel 2 stop minute.	0 - 59	R/W	
152	Year channel 3 function.	0 - 3	R/W	
153	Year channel 3 start year.	2000 - 2099	R/W	
154	Year channel 3 start month.	1 - 12	R/W	
155	Year channel 3 start date.	1 - 31	R/W	
156	Year channel 3 start hour.	0 - 23	R/W	
157	Year channel 3 start minute.	0 - 59	R/W	
158	Year channel 3 stop year.	2000 - 2099	R/W	
159	Year channel 3 stop month.	1 - 12	R/W	
160	Year channel 3 stop date.	1 - 31	R/W	
161	Year channel 3 stop hour.	0 - 23	R/W	
162	Year channel 3 stop minute.	0 - 59	R/W	
163	Year channel 4 function.	0 - 3	R/W	
164	Year channel 4 start year.	2000 - 2099	R/W	
165	Year channel 4 start month.	1 - 12	R/W	
166	Year channel 4 start date.	1 - 31	R/W	
167	Year channel 4 start hour.	0 - 23	R/W	
168	Year channel 4 start minute.	0 - 59	R/W	
169	Year channel 4 stop year.	2000 - 2099	R/W	
170	Year channel 4 stop month.	1 - 12	R/W	
171	Year channel 4 stop date.	1 - 31	R/W	
172	Year channel 4 stop hour.	0 - 23	R/W	
173	Year channel 4 stop minute.	0 - 59	R/W	
174	Year channel 5 function.	0 - 3	R/W	
175	Year channel 5 start year.	2000 - 2099	R/W	
176	Year channel 5 start month.	1 - 12	R/W	
177	Year channel 5 start date.	1 - 31	R/W	
178	Year channel 5 start hour.	0 - 23	R/W	
179	Year channel 5 start minute.	0 - 59	R/W	
180	Year channel 5 stop year.	2000 - 2099	R/W	
181	Year channel 5 stop month.	1 - 12	R/W	
182	Year channel 5 stop date.	1 - 31	R/W	
183	Year channel 5 stop hour.	0 - 23	R/W	
184	Year channel 5 stop minute.	0 - 59	R/W	
185	Year channel 6 function.	0 - 3	R/W	
186	Year channel 6 start year.	2000 - 2099	R/W	
187	Year channel 6 start month.	1 - 12	R/W	
188	Year channel 6 start date.	1 - 31	R/W	
189	Year channel 6 start hour.	0 - 23	R/W	
190	Year channel 6 start minute.	0 - 59	R/W	
191	Year channel 6 stop year.	2000 - 2099	R/W	
192	Year channel 6 stop month.	1 - 12	R/W	
193	Year channel 6 stop date.	1 - 31	R/W	
194	Year channel 6 stop hour.	0 - 23	R/W	
195	Year channel 6 stop minute.	0 - 59	R/W	
196	Year channel 7 function.	0 - 3	R/W	

197	**Year channel 7 start year.**	2000 - 2099	R/W	
198	**Year channel 7 start month.**	1 - 12	R/W	
199	**Year channel 7 start date.**	1 - 31	R/W	
200	**Year channel 7 start hour.**	0 - 23	R/W	
201	**Year channel 7 start minute.**	0 - 59	R/W	
202	**Year channel 7 stop year.**	2000 - 2099	R/W	
203	**Year channel 7 stop month.**	1 - 12	R/W	
204	**Year channel 7 stop date.**	1 - 31	R/W	
205	**Year channel 7 stop hour.**	0 - 23	R/W	
206	**Year channel 7 stop minute.**	0 - 59	R/W	
207	**Year channel 8 function.**	0 - 3	R/W	
208	**Year channel 8 start year.**	2000 - 2099	R/W	
209	**Year channel 8 start month.**	1 - 12	R/W	
210	**Year channel 8 start date.**	1 - 31	R/W	
211	**Year channel 8 start hour.**	0 - 23	R/W	
212	**Year channel 8 start minute.**	0 - 59	R/W	
213	**Year channel 8 stop year.**	2000 - 2099	R/W	
214	**Year channel 8 stop month.**	1 - 12	R/W	
215	**Year channel 8 stop date.**	1 - 31	R/W	
216	**Year channel 8 stop hour.**	0 - 23	R/W	
217	**Year channel 8 stop minute.**	0 - 59	R/W	
218	**Filter select.**	0 - 3	R/W	
	Setting for filter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.			
219	**Prefilter select.**	0 - 3	R/W	
	Setting for prefilter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.			
220	**Prefilter calibration mode.**	0 - 3	R/W	
	Setting for requiered filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter.			
221	**Reserve**			
222	**Reserve**			
223	**Reserve**			
224	**Reserve**			
225	**Reserve**			

226	**Reserve**			
227	**Reserve**			
228	**Preheating function.**	0 - 4	R/W	
	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.			
229	**Reserve**			
230	**Reserve**			
231	**Reserve**			
232	**Preheat operation time**	0-9999	R	
	Present operation time for preheat, measured in minutes and present in days (24h).			
233	**Reserve**			
234	**Reserve**			
235	**Mode digital output relay 1**	0-8	R/W	
	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.			
236	**Mode digital output relay 2**	0-8	R/W	
	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.			
237	**Mode digital input 1**	0-6	R/W	
	Setting of mode input 1 function. 0=Stop. 1=Low speed. 2=High speed. 3=Alarm 1. 4=Alarm 2. 5=Reset. 6=Fire.			

238	**Mode digital input 2**	0-6	R/W	
	Setting of mode input 2 function. 0=Stop. 1=Low speed. 2=High speed. 3=Alarm 1. 4=Alarm 2. 5=Reset. 6=Fire.			
239	**Manual morning boost time hour**	0-23	R/W	
	Setting of manual morning boost time before normal operation.			
240	**Manual morning boost time minutes**	0-59	R/W	
	Setting of manual morning boost time before normal operation.			
241	**Airing time set**	10-60	R/W	
	Setting of airing time in minutes.			
242	**Manual operation drift mode**	0-4	R/W	
	Setting of manual operation drift mode. 0=Normal operation. 1=Extended operation. 2=Airing. 3=Heating. 4=Heating+Recirc.			