

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

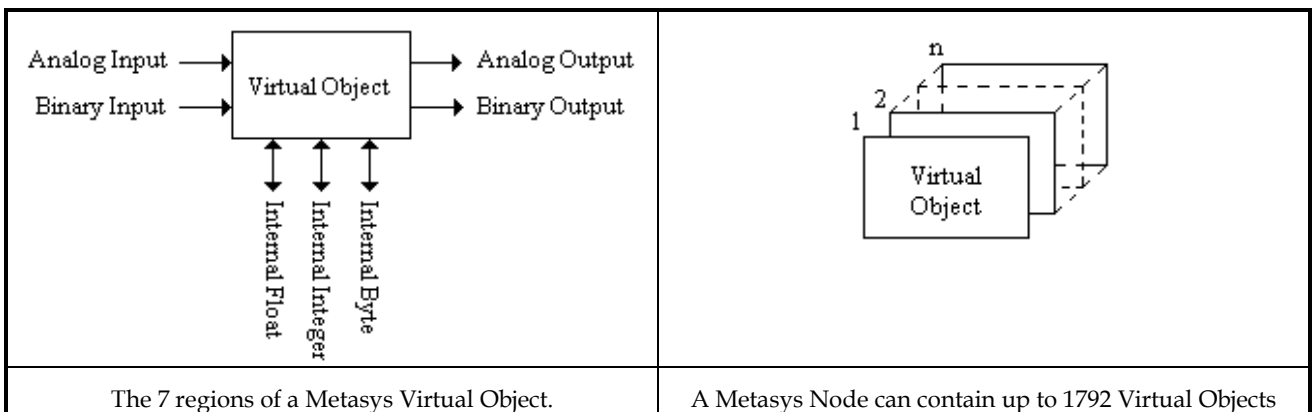
Metasys N2 open

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	ADF	32 bit, IEEE-standard floats.
Region 6	Internal Integer	ADI	Signed 16 bit.
Region 7	Internal Byte	BYT	8 bit.



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

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

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 according to the diagram for ERS 1.		
34	ERS 1 Breakpoint	12.00 - 26.00°C	
	Breakpoint setting according to the diagram for ERS 1.		
35	ERS 2 Breakpoint X1	10.00-38.00°C	
	Breakpoint X1 setting according to the diagram for ERS 2.		
36	ERS 2 Breakpoint Y1	10.00-40.00°C	
	Breakpoint Y1 setting according to the diagram for ERS 2.		
37	ERS 2 Breakpoint X2	11.00-39.00°C	
	Breakpoint X2 setting according to the diagram for ERS 2.		

38	ERS 2 Breakpoint Y2	10.00-40.00°C	
	Breakpoint Y2 setting according to the diagram for ERS 2.		
39	ERS 2 Breakpoint X3	12.00-40.00°C	
	Breakpoint X3 setting according to the diagram for ERS 2.		
40	ERS 2 Breakpoint Y3	10.00-40.00°C	
	Breakpoint Y3 setting according to the diagram for ERS 2.		
41	SA Temperature setpoint	10.00-40.00°C	
	Supply air temperature setting, for supply air temp regulation mode.		
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 neutral 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	Iqnomiq 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 required 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=m ³ /s, 2=m ³ /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																									
	<table border="0"> <tr> <td>Low speed</td> <td>High speed</td> </tr> <tr> <td>0=Deactive</td> <td>16=Deactive</td> </tr> <tr> <td>1=Monday</td> <td>17=Monday</td> </tr> <tr> <td>2=Tuesday</td> <td>18=Tuesday</td> </tr> <tr> <td>3=Wednesday</td> <td>19=Wednesday</td> </tr> <tr> <td>4=Thursday</td> <td>20=Thursday</td> </tr> <tr> <td>5=Friday</td> <td>21=Friday</td> </tr> <tr> <td>6=Saturday</td> <td>22=Saturday</td> </tr> <tr> <td>7=Sunday</td> <td>23=Sunday</td> </tr> <tr> <td>8=Monday..Friday</td> <td>24=Monday..Friday</td> </tr> <tr> <td>9=Monday..Sunday</td> <td>25=Monday..Sunday</td> </tr> <tr> <td>10=Saturday..Sunday</td> <td>26=Saturday..Sunday</td> </tr> </table>	Low speed	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			
Low speed	High speed																											
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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 required 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.			