

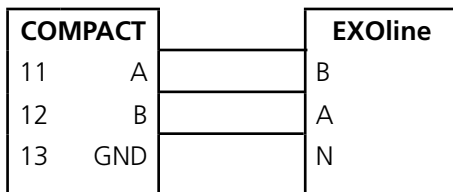
# EXOLINE GATEWAY

## COMPACT sizes 02-03, program version 1.00 and newer versions

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### Overview

The COMPACT air handling unit will be an EXOline slave, and will be connected to the network with two-wire RS485. The EXOline master shall set timeout to 1 (64 ms). The most common settings are baudrate 9600, parity odd and stop bits 1.



### Slave address (PLA, ELA)

The slave address of an EXOline slave consists of two bytes PLA and ELA.

### EXOline Data formats

EXOline data types that will be used:

EXOline Type	Description
Logical var.	1 bit Discrete value
Index var.	One byte unsigned value
Real var.	Floating point value

### Supported EXOline commands.

The COMPACT air handling unit supports these EXOline commands.

Opc	Hex	Dec	Interpretation	Data	Answer
SLV	01	1	Set logical var.	DLn Cell Value	Ok!
SLP	2F	47	Set logic segment var.	DLn Seg Offs Value	Ok!
SXV	02	2	Set index var.	DLn Cell Value	Ok!
SXP	B0	176	Set index segment var.	DLn Seg Offs Value	Ok!
SRV	04	4	Set real var.	DLn Cell Value (4)	Ok!
SRP	32	50	Set real segment var.	DLn Seg Offs Value (4)	Ok!
RLV	86	134	Read logical var.	DLn Cell	Value
RLP	B3	179	Read logic segment var.	DLn Seg Offset	Value
RXV	07	7	Read index var.	DLn Cell	Value
RXP	34	52	Read index segment var.	DLn Seg Offset	Value
RRV	89	137	Read real var.	DLn Cell	Value (4)
RRP	B6	182	Read real segment var.	DLn Seg Offset	Value (4)
READV	10	16	Read Vpac page.	DLn DPn	Data (n)

### Return error codes

The following error codes will be used.

Error code	Error	Fault that can occur
01h	Wrong data type	Accessing Cell with wrong data type.
07h	The DPac does not exist.	Accessing a Dpac that's not used.
19h	Illegal parameter value	Try to write to an "Read only" or value is out of range.
25h	Illegal cell number	Accessing Cell number that is not first Cell of a real var. Accessing Cell number that is not used.
26h	Illegal command	Command not supported
27h	Illegal message length	Wrong message length for command.
04h	Illegal DPac load number	
05h	The DPac (or DPac segment) does not exist	

**Real var. Vpac 2 (RO)**

Index	Cell nbr.	Name	Min/Max	Misc
1	0	<b>SA Airflow</b>	0-360l/s	
		Present supply airflow.		
2	3	<b>SA Airflow regulator</b>	0-360l/s	
		Present supply airflow regulator setpoint.		
3	6	<b>EA Airflow</b>	0-360l/s	
		Present extract airflow.		
4	9	<b>EA Airflow regulator</b>	0-360l/s	
		Present extract airflow regulator setpoint.		
5	12	<b>SA Duct pressure</b>	0-750Pa	
		Present supply air duct pressure.		
6	15	<b>SA Duct pressure regulator</b>	0-750Pa	
		Present supply air duct pressure regulator setpoint.		
7	18	<b>EA Duct pressure</b>	0-750Pa	
		Present extract air duct pressure.		
8	21	<b>EA Duct pressure regulator</b>	0-750Pa	
		Present extract air duct pressure regulator setpoint.		
9	24	<b>Reserve</b>		
10	27	<b>SA VAV demand regulator</b>	0-100.00%	
		Present supply air VAV demand regulator setpoint.		
11	30	<b>Reserve</b>		
12	33	<b>EA VAV demand regulator</b>	0-100.00%	
		Present supply air VAV demand regulator setpoint.		
13	36	<b>SA Fan level</b>	0-100.00%	
		Present running level for the supply air fan.		
14	39	<b>EA Fan level</b>	0-100.00%	
		Present running level for the extract air fan.		
15	42	<b>SA Temp regulator</b>	5.00-60.00°C	
		Present supply air temperature regulator setpoint.		
16	45	<b>EA Temp regulator</b>	5.00-40.00°C	
		Present extract air temperature regulator setpoint.		
17	48	<b>SA Temperature</b>	5.00-40.00°C	
		Present supply air temperature.		
18	51	<b>EA/Room temperature</b>	5.00-40.00°C	
		Present extract air/room temperature in the unit.		
19	54	<b>Outdoor temperatur</b>	5.00-40.00°C	
		Present outdoor air temperature in the unit.		
20	57	<b>EA/Room temperature (external)</b>	5.00-40.00°C	
		Present room temperature external from the unit.		
21	60	<b>Outdoor temperatur (external)</b>	5.00-40.00°C	
		Present outdoor air temperature external from the unit.		
22	63	<b>Anti frost temperature</b>	5-40.00°C	
		Present anti frost temperature for water reheating coils.		

23	66	<b>Reserve</b>		
24	69	<b>Reserve</b>		
25	72	<b>Heat exchange regulator</b>	0-100.00%	
		Present level of heat exchange regulator.		
26	75	<b>Reheat level</b>	0-100.00%	
		Present level of reheat.		
27	78	<b>SA Down regulation level</b>	0-100.00%	
		Present level of supply airflow down regulation.		
28	81	<b>Reserve</b>		
29	84	<b>Cooling level</b>	0-100.00%	
		Present level of cooling.		
30	87	<b>Heating boost level</b>	0-100.00%	
		Present level of heating boost.		
31	90	<b>Cooling boost level</b>	0-100.00%	
		Present level of cooling boost.		
32	93	<b>Effect reduction level</b>	0-100.00%	
		Present level of max output signal for electrical reheaters, active during low supply airflow.		
33	96	<b>Supply air filter pressure level</b>	0-3000Pa	
		Present supply air filter pressure drop.		
34	99	<b>Supply air filter pressure alarm limit.</b>	0-1000Pa	
		Present supply air filter pressure alarm limit.		
35	102	<b>Extract air filter pressure level</b>	0-3000Pa	
		Present extract air filter pressure drop.		
36	105	<b>Extract air filter pressure alarm limit.</b>	0-1000Pa	
		Present extract air filter pressure alarm limit.		
37	108	<b>Reserve</b>		
38	111	<b>Cool step time</b>	0-600s	
		Present time between cool step shift.		
39	114	<b>Cool relay 1 restart time</b>	0-1800s	
		Present time between two starts of cool relay 1.		
40	117	<b>Cool relay 2 restart time</b>	0-1800s	
		Present time between two starts of cool relay 2.		
41	120	<b>SA Fan effect</b>	0-500W	
		Present power consumption level for the supply air fan.		
42	123	<b>EA Fan effect</b>	0-500W	
		Present power consumption level for the extract air fan.		
43	126	<b>SFP</b>	0.0-9.9	
		SFP supply air + extract air.		
44	129	<b>Reserve</b>		
45	132	<b>Reserve</b>		

46	135	<b>SA Voltage</b>	0-500V	
		Present voltage level for the supply air fan.		
47	138	<b>EA Voltage</b>	0-500V	
		Present voltage level for the extract air fan.		
48	141	<b>SA Current</b>	0-2.000A	
		Present current level for the supply air fan.		
49	144	<b>EA Current</b>	0-2.000A	
		Present current level for the extract air fan.		
50	147	<b>SA Airflow pressure</b>	0-3000Pa	
		Present airflow pressure in the supply air fan inlet.		
51	150	<b>EA Airflow pressure</b>	0-3000Pa	
		Present airflow pressure in the extract air fan inlet.		
52	153	<b>R. Heat exchange level</b>	0-100.00%	
		Present operation level from rotary heat exchange.		
53	156	<b>HX pressure level</b>	0-1000Pa	
		Present pressure drop for the rotary heat exchanger.		
54	159	<b>HX pressure alarm limit</b>	0-1000Pa	
		Present pressure drop alarm limit for the rotary heat exchanger.		
55	162	<b>HX temperature</b>	0-100.00°C	
		Present temperature inside the control unit for the rotary heat exchanger.		
56	165	<b>Anti frost temp setpoint/operation</b>	10.00-16.00°C	
		Present anti frost temperature setpoint for water reheating coils during unit operation.		
57	168	<b>Anti frost temp setpoint/stop</b>	15.00-40.00°C	
		Present anti frost temperature setpoint for water reheating coils when the unit is in stop.		
58	171	<b>Anti frost temp alarm limit</b>	5.00-30.00°C	
		Setting of antifrost temperature alarm limit.		
59	174	<b>Supply air filter pressure level, new</b>	0-1000Pa	
		Supply air filter pressure saved from calibration.		
60	177	<b>Extract air filter pressure level, new</b>	0-1000Pa	
		Extract air filter pressure saved from calibration.		
61	180	<b>Programversion, HMI</b>	0-10.00	
		Present programversion for the handterminal.		
62	183	<b>Programversion, HMI-slave</b>	0-10.00	
		Present programversion for the extra handterminal.		
63	186	<b>Programversion, main controller.</b>	0-10.00	
		Present programversion for the main control unit.		
64	189	<b>Programversion, SA FC-1.</b>	0-10.00	
		Present programversion for the supply air frequency converter no.1.		
65	192	<b>Programversion, SA FC-2.</b>	0-10.00	
		Present programversion for the supply air frequency converter no.2.		
66	195	<b>Programversion, EA FC-1.</b>	0-10.00	
		Present programversion for the extract air frequency converter no.1.		

67	198	<b>Programversion, EA FC-2.</b>	0-10.00	
		Present programversion for the extract air frequency converter no.2.		
68	201	<b>Programversion, HX control unit</b>	0-10.00	
		Present programversion for the rotary heat exchange control unit.		
69	204	<b>SA Fan operation time</b>	0-9999	
		Present operation time for the supply air fan, measured in minutes and present in days (24h).		
70	207	<b>EA Fan operation time</b>	0-9999	
		Present operation time for the extract air fan, measured in minutes and present in days (24h).		
71	210	<b>Cool operation time</b>	0-9999	
		Present operation time for cooling, measured in minutes and present in days (24h).		
72	213	<b>Heat exchange operation time</b>	0-9999	
		Present operation time for heat exchange, measured in minutes and present in days (24h).		
73	216	<b>Reheat operation time</b>	0-9999	
		Present operation time for reheat, measured in minutes and present in days (24h).		
74	219	<b>Reserve</b>		
75	222	<b>Reserve</b>		
76	225	<b>Reserve</b>		
77	228	<b>Reserve</b>		
78	231	<b>Reserve</b>		
79	234	<b>Reserve</b>		
80	237	<b>Reserve</b>		
81	240	<b>Reserve</b>		
82	243	<b>Reserve</b>		
83	246	<b>Reserve</b>		
84	249	<b>Reserve</b>		
85	252	<b>Reserve</b>		
86	255	<b>Reserve</b>		
87	258	<b>Reserve</b>		

88	261	<b>R.HX. Efficiency</b>	0-100.00%	
		Calculated level of rotary heat exchanger efficiency.		
89	264	<b>Reserve</b>		
90	267	<b>Reserve</b>		
91	270	<b>Reserve</b>		
92	273	<b>Reserve</b>		
93	276	<b>Reserve</b>		
94	279	<b>Supply air prefilter pressure level</b>	0-3000Pa	
		Present supply air prefilter pressure drop.		
95	282	<b>Supply air prefilter pressure alarm limit.</b>	0-1000Pa	
		Present supply air prefilter pressure alarm limit.		
96	285	<b>Supply air prefilter pressure level, new</b>	0-1000Pa	
		Supply air prefilter pressure saved from calibration.		
97	288	<b>Extract air prefilter pressure level</b>	0-3000Pa	
		Present extract air prefilter pressure drop.		
98	291	<b>Extract air prefilter pressure alarm limit.</b>	0-1000Pa	
		Present extract air prefilter pressure alarm limit.		
99	294	<b>Extract air prefilter pressure level, new</b>	0-1000Pa	
		Extract air prefilter pressure saved from calibration.		
100	297	<b>Reserve</b>		
101	300	<b>Reserve</b>		
102	303	<b>Reserve</b>		
103	306	<b>Reserve</b>		
104	309	<b>Reserve</b>		
105	312	<b>Reserve</b>		
106	315	<b>Reserve</b>		
107	318	<b>Pre-heating air temperature</b>	5.00-40.00°C	
		Present pre-heating air temperature.		
108	321	<b>Pre-heating level</b>	0-100.00%	
		Present level of pre-heating.		
109	324	<b>Pre-heating anti frost temperature</b>	0-40.00°C	
		Present anti frost temperature for water pre-heating coils.		
110	327	<b>Reserve</b>		

111	330	Reserve		
112	333	Reserve		
113	336	Reserve		
114	339	Reserve		
115	342	Reserve		
116	345	Preheat operation time	0-30000	
		Present operation time for preheat, measured in minutes and present in days (24h).		
117	348	Reserve		
118	351	Reserve		
119	354	Demand VOC Level	0-100.00%	
		Present level of demand VOC input.		
120	357	Demand Vin Level	0-100.00%	
		Present level of demand 0-10VDC input.		
121	360	SA Filter level calculated	0-100.00%	
		Present level of calculated supply air filter.		
122	363	EA Filter level calculated	0-100.00%	
		Present level of calculated extract air filter.		



**Index var. Vpac 3 (RO)**

Index	Cell nbr.	Name	Min/Max	Misc
1	0	<b>Coil type</b>	0-20	
		Present connected reheat coil type.		
2	1	<b>Weekday</b>	0 - 6	
		Present weekday for the unit's internal clock.		
3	2	<b>Extended low speed op. Hours</b>	0-23	
		Present time for extended low speed operation.		
4	3	<b>Extended low speed op. Minutes</b>	0-59	
		Present time for extended low speed operation.		
5	4	<b>Extended high speed op. Hours</b>	0-23	
		Present time for extended high speed operation.		
6	5	<b>Extended high speed op. Minutes</b>	0-59	
		Present time for extended high speed operation.		
7	6	<b>Present tripped alarm</b>	0-200	
		Present tripped alarm number with highest priority.		
8	7	<b>Active not tripped alarm no.1</b>	0-200	
		Present active alarm in delay.		
9	8	<b>Active not tripped alarm no.2</b>	0-200	
		Present active alarm in delay.		
10	9	<b>Active not tripped alarm no.3</b>	0-200	
		Present active alarm in delay.		
11	10	<b>SA Fan size</b>	04 - 80	
		Present supply air fan size.		
12	11	<b>EA Fan size</b>	04 - 80	
		Present extract air fan size.		
13	12	<b>Operation mode 1</b>	0 - 18,255	
		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=		

14	13	<b>Operation mode 2</b>	0 - 24	
		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.		
15	14	<b>Operation mode, manual</b>	0 - 3	
		Present manual operation set on the unit's handterminal 0=Stop, 1=Auto operation, 2=Manual low speed, 3=Manual high speed.		

**Logical var. Vpac 4 (RO)**

Index	Cell no.	Name	Min/Max	Misc
1	0	<b>Heat output</b>	0-1	
		Status for relay output.		
2	1	<b>Cool output 1</b>	0-1	
		Status for relay output.		
3	2	<b>Cool output 2</b>	0-1	
		Status for relay output.		
4	3	<b>Low speed output</b>	0-1	
		Status for relay output.		
5	4	<b>High speed output</b>	0-1	
		Status for relay output.		
6	5	<b>A-alarm.</b>	0-1	
		Status for relay output.		
7	6	<b>B-alarm.</b>	0-1	
		Status for relay output.		
8	7	<b>Operation output</b>	0-1	
		Status for relay output.		
9	8	<b>Damper output</b>	0-1	
		Status for relay output.		
10	9	<b>External low speed input</b>	0-1	
		Status for digital input.		
11	10	<b>External high speed input</b>	0-1	
		Status for digital input.		
12	11	<b>External alarm 1 input</b>	0-1	
		Status for digital input.		
13	12	<b>External alarm 2 input</b>	0-1	
		Status for digital input.		
14	13	<b>External fire alarm input.</b>	0-1	
		Status for digital input.		
15	14	<b>External stop input</b>	0-1	
		Status for digital input.		
16	15	<b>DIP Switch 1</b>	0-1	
		Status for dip switch setting.		
17	16	<b>DIP Switch 2</b>	0-1	
		Status for dip switch setting.		
18	17	<b>DIP Switch 3</b>	0-1	
		Status for dip switch setting.		
19	18	<b>DIP Switch 4</b>	0-1	
		Status for dip switch setting.		
20	19	<b>DIP Switch 5</b>	0-1	
		Status for dip switch setting.		
21	20	<b>DIP Switch 6</b>	0-1	
		Status for dip switch setting.		
22	21	<b>Alarm number 1</b>	0-1	
		Status if alarm number 1 is active.		

23	22	<b>Alarm number 2</b>	0-1	
		Status if alarm number 2 is active.		
24	23	<b>Alarm number 3</b>	0-1	
		Status if alarm number 3 is active.		
25...120	24...119	...		
		...		
121	120	<b>Alarm number 100</b>	0-1	
		Status if alarm number 100 is active.		
122	121	<b>Reserve</b>		
123	122	<b>Reserve</b>		
124	123	<b>Reserve</b>		
125	124	<b>R.HX rotation monitor</b>	0-1	
		Status from the rotation detector.		
126	125	<b>Reserve</b>		
127	126	<b>Reserve</b>		
128	127	<b>Reserve</b>		
129	128	<b>Pre-heat output</b>	0-1	
		Status for relay output.		
130	129	<b>Recirculation output</b>	0-1	
		Status for relay output.		
131	130	<b>Booster output</b>	0-1	
		Status for relay output.		
132	131	<b>Reserve</b>		
133	132	<b>Reserve</b>		
134	133	<b>Reserve</b>		
135	134	<b>Reserve</b>		
136	135	<b>Reserve</b>		
137	136	<b>Reserve</b>		
138	137	<b>Reserve</b>		
139	138	<b>Reserve</b>		
140	139	<b>Reserve</b>		

141	140	Reserve		
142	141	Reserve		
143	142	Reserve		
144	143	Reserve		
145	144	Reserve		
146	145	Reserve		
147	146	Reserve		
148	147	Reserve		
149	148	Info number 1	0-1	
		Status if info number 1 is active.		
150	149	Info number 2	0-1	
		Status if info number 2 is active.		
151	150	Info number 3	0-1	
		Status if info number 3 is active.		
152...167	151...168	...		
		...		
168	167	Info number 20	0-1	
		Status if info number 100 is active.		
169	168	Alarm number 101	0-1	
		Status if alarm number 101 is active.		
170	169	Alarm number 102	0-1	
		Status if alarm number 102 is active.		
171	170	Alarm number 103	0-1	
		Status if alarm number 103 is active.		
248	247	Alarm number 180	0-1	
		Status if alarm number 180 is active.		

**Real var. Vpac 5 (R/W)**

Index	Cell nbr.	Name	Min/Max	Misc
1	0	<b>SA Low speed airflow setpoint</b>	0-360l/s	
		Supply airflow setpoint for the unit when running in low speed operation.		
2	3	<b>SA High speed airflow setpoint</b>	0-360l/s	
		Supply airflow setpoint for the unit when running in high speed operation.		
3	6	<b>SA Max speed airflow setpoint</b>	0-360l/s	
		Supply airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
4	9	<b>SA Min speed airflow setpoint</b>	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	12	<b>EA Low speed airflow setpoint</b>	0-360l/s	
		Extract airflow setpoint for the unit when running in low speed operation.		
6	15	<b>EA High speed airflow setpoint</b>	0-360l/s	
		Extract airflow setpoint for the unit when running in high speed operation.		
7	18	<b>EA Max speed airflow setpoint</b>	0-360l/s	
		Extract airflow max. limit for the unit when the low/high speed operation setpoint is altered by boosting function etc.		
8	21	<b>EA Min speed airflow setpoint</b>	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	24	<b>SA Low speed pressure setpoint</b>	0-750Pa	
		Supply air duct pressure setpoint for the unit when running in low speed operation.		
10	27	<b>SA High speed pressure setpoint</b>	0-750Pa	
		Supply air duct pressure for the unit when running in high speed operation.		
11	30	<b>SA Max speed output signal</b>	10.00-100.00%	
		Max. limit for the supply air fan speed when running in pressure regulation mode.		
12	33	<b>SA Max speed pressure setpoint</b>	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	36	<b>EA Low speed pressure setpoint</b>	0-750Pa	
		Extract air duct pressure setpoint for the unit when running in low speed operation.		
14	39	<b>EA High speed pressure setpoint</b>	0-750Pa	
		Extract air duct pressure setpoint for the unit when running in high speed operation.		
15	42	<b>EA Max speed output signal</b>	10.00-100.00%	
		Max. limit for the extract air fan speed when running in pressure regulation mode.		

16	45	<b>EA Max speed pressure setpoint</b>	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	48	<b>SA Low speed demand setpoint</b>	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	51	<b>SA High speed demand setpoint</b>	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	54	<b>EA Low speed demand setpoint</b>	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	57	<b>EA High speed demand setpoint</b>	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	60	<b>ERS 1 Diff</b>	1.00 - 7.00°C	
		Supply air temperature difference setting according to the diagram for ERS 1.		
22	63	<b>ERS 1 Brakepoint</b>	12.00 - 26.00°C	
		Brakepoint setting according to the diagram for ERS 1.		
23	66	<b>ERS 2 Brakepoint X1</b>	10.00-38.00°C	
		Brakepoint X1 setting according to the diagram for ERS 2.		
24	69	<b>ERS 2 Brakepoint Y1</b>	10.00-40.00°C	
		Brakepoint Y1 setting according to the diagram for ERS 2.		
25	72	<b>ERS 2 Brakepoint X2</b>	11.00-39.00°C	
		Brakepoint X2 setting according to the diagram for ERS 2.		
26	75	<b>ERS 2 Brakepoint Y2</b>	10.00-40.00°C	
		Brakepoint Y2 setting according to the diagram for ERS 2.		
27	78	<b>ERS 2 Brakepoint X3</b>	12.00-40.00°C	
		Brakepoint X3 setting according to the diagram for ERS 2.		
28	81	<b>ERS 2 Brakepoint Y3</b>	10.00-40.00°C	
		Brakepoint Y3 setting according to the diagram for ERS 2.		
29	84	<b>SA Temperature setpoint</b>	10.00-40.00°C	
		Supply air temperature setting, for supply air temp regulation mode.		
30	87	<b>EA/Room Temperature setpoint</b>	10.00-30.00°C	
		Extract air/room temperature setting, for Extract air/room temp regulation mode.		
31	90	<b>SA Min temp setpoint</b>	8.00-20.00°C	
		Supply air min.setpoint during EA/room regulation mode.		
32	93	<b>SA Max temp setpoint</b>	16.00-50.00°C	
		Supply air max.setpoint during EA/room regulation mode.		
33	96	<b>Cooling off set.</b>	10 - 50%	
		Cooling off airflow setting in % of max. airflow.		
34	99	<b>SA Down regulation neutral zone</b>	0.00-10.00°C	
		Neutral zone setting before downregulation is permitted.		

35	102	<b>Cool Outdoor temp limit.1</b>	0.00-25.00°C	
		Outdoor temperature limit setting for cooling stage 1.		
36	105	<b>Cool Outdoor temp limit.2</b>	0.00-25.00°C	
		Outdoor temperature limit setting for cooling stage 2.		
37	108	<b>Cool Outdoor temp limit.3</b>	0.00-25.00°C	
		Outdoor temperature limit setting for cooling stage 3.		
38	111	<b>Temperature reg. Neutral zone</b>	0.50-10.00°C	
		Neutral zone setting before shift between heating and cooling.		
39	114	<b>SA Cool min air flow</b>	0-360l/s	
		Supply air min. air flow setting for cooling.		
40	117	<b>EA Cool min air flow</b>	0-360l/s	
		Extract air min. air flow setting for cooling.		
41	120	<b>Heating boost start limit</b>	2.00-10.00°C	
		Heating boost start temperature limit.		
42	123	<b>Cooling boost start limit</b>	2.00-10.00°C	
		Cooling boost (comfort) start temperature limit.		
43	126	<b>SA Filter alarm limit</b>	0-1000Pa	
		Supply air filter pressure alarm limit setting.		
44	129	<b>EA Filter alarm limit</b>	0-1000Pa	
		Extract air filter pressure alarm limit setting.		
45	132	<b>Int. Night heat room start temp</b>	5.00-40.00°C	
		Intermittent night heat function, extract air temperature setting for start.		
46	135	<b>Int. Night heat room stop temp</b>	5.00-40.00°C	
		Intermittent night heat function, extract air temperature setting for stop.		
47	138	<b>Int. Night heat SA temp setpoint</b>	5.00-40.00°C	
		Intermittent night heat function, supply air temperature setpoint during night heat.		
48	141	<b>Int. Night heat SA airflow setpoint</b>	0-360l/s	
		Intermittent night heat function, supply airflow setpoint during night heat.		
49	144	<b>Int. Night heat EA airflow setpoint</b>	0-360l/s	
		Intermittent night heat function, extract airflow setpoint during night heat.		
50	147	<b>Summer night cool EA start temp</b>	17.00-27.00°C	
		Summer night cool function, extract air temperature setting for start.		
51	150	<b>Summer night cool EA stop temp</b>	12.00-22.00°C	
		Summer night cool function, extract air temperature setting for stop.		
52	153	<b>Summer night cool outdoor temp limit</b>	5.00-15.00°C	
		Summer night cool function, outdoor temperature limit.		
53	156	<b>Summer night cool SA temp setpoint</b>	10.00-20.00°C	
		Summer night cool function, supply air temperature setpoint during summer night cool.		
54	159	<b>Outdoor temp comp. Winter X1.</b>	-30.00-(-10.00)°C	
		Endpoint of winter compensation.		



55	162	<b>Outdoor temp comp. Winter X2.</b>	-10.00-15.00°C	
		Startpoint of winter compensation.		
56	165	<b>Outdoor temp comp. Winter Y1.</b>	0.00-10.00°C	
		Level of winter compensation at X1.		
57	168	<b>Outdoor temp comp. Summer X3.</b>	15.00-25.00°C	
		Startpoint of summer compensation.		
58	171	<b>Outdoor temp comp. Summer X4.</b>	25.00-40.00°C	
		Endpoint of summer compensation.		
59	174	<b>Outdoor temp comp. Summer Y2.</b>	-10.00-10.00°C	
		Level of summer compensation at X4.		
60	177	<b>Outdoor airflow comp. Winter X1.</b>	-30.00-(-10.00)°C	
		Endpoint of winter compensation.		
61	180	<b>Outdoor airflow comp. Winter X2.</b>	-10.00-15.00°C	
		Startpoint of winter compensation.		
62	183	<b>Outdoor airflow comp. Winter Y1.</b>	0-50.00%	
		Level of airflow compensation at X1.		
63	186	<b>Reserve</b>		
64	189	<b>EA/Room min temp alarm limit</b>	8.00-20.00°C	
		Setting for min extract air /room temp alarm no.40.		
65	192	<b>SA Deviation alarm limit</b>	2.00-15.00°C	
		Setting for supply air temperature below present setpoint, alarm no.41.		
66	195	<b>E_Demand regulator set</b>	0-100%	
67	198	<b>Cooling off periode</b>	60 - 1500s	
		Time setting for cooling off electrical heating coil.		
68	201	<b>Cool step time</b>	0 - 600s	
		Time setting between cool step shift.		
69	204	<b>Cool restart time</b>	60 - 900s	
		Setting of time between two starts of the cool relays.		
70	207	<b>Startup time</b>	0 - 600s	
		Setting of time for startup when the unit regulator is running with fixed signals.		
71	210	<b>Start delay SA fan.</b>	0 - 600s	
		Setting of start delay time for the supply air fan.		
72	213	<b>Start delay EA fan.</b>	0 - 600s	
		Setting of start delay time for the extract air fan after supply air fan has started.		
73	216	<b>Year</b>	2000-2100	
		Setting for the unit's internal clock.		
74	219	<b>External alarm 1 delay</b>	1 - 600s	
		Setting of delay time for external alarm no 1		
75	222	<b>External alarm 2 delay</b>	1 - 600s	
		Setting of delay time for external alarm no 2		
76	225	<b>Int. Night heat SA pressure setpoint</b>	20-750Pa	
		Intermittent night heat function, supply pressure setpoint during night heat.		

77	228	<b>Int. Night heat EA pressure setpoint</b>	20-750Pa	
		Intermittent night heat function, extract pressure setpoint during night heat.		
78	231	<b>Slave control C-factor</b>	0.5 - 1.5	
		Slave regulator affection setting.		
79	234	<b>SA Airflow regulation zone</b>	1.00 - 10.00	
		Supply airflow regulation zone setting in % of the present airflow setpoint that the regulator is allowed to work within.		
80	237	<b>SA Airflow C-factor</b>	0.005 - 2.500	
		Supply airflow regulator affection setting.		
81	240	<b>EA Airflow regulation zone</b>	1.00 - 10.00	
		Extract airflow regulation zone setting in % of the present airflow setpoint that the regulator is allowed to work within.		
82	243	<b>EA Airflow C-factor</b>	0.005 - 2.500	
		Extract airflow regulator affection setting.		
83	246	<b>SA Pressure regulation zone</b>	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.		
84	249	<b>SA Pressure C-factor</b>	0.005 - 2.500	
		Supply air pressure regulator affection setting.		
85	252	<b>EA Pressure regulation zone</b>	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.		
86	255	<b>EA Pressure C-factor</b>	0.005 - 2.500	
		Extract air pressure regulator affection setting.		
87	258	<b>SA Demand P-band.</b>	1.00 - 100.00	
		Supply air demand regulator P-band setting.		
88	261	<b>SA Demand C-factor</b>	0.005 - 2.500	
		Supply air demand regulator affection setting.		
89	264	<b>EA Demand P-band.</b>	1.00 - 100.00	
		Extract air demand regulator P-band setting.		
90	267	<b>EA Demand C-factor</b>	0.005 - 2.500	
		Extract air demand regulator affection setting.		
91	270	<b>SA Temperature P-band</b>	1.00 - 40.00	
		Supply air temperature regulator P-band setting.		
92	273	<b>EA/Room Temperature P-band</b>	1.00 - 40.00	
		Extract air/room temperature regulator P-band setting.		
93	276	<b>SA HX. Reg C-factor</b>	0.000 - 2.500	
		Supply air heat exchange regulator affection setting.		
94	279	<b>EA/Room HX. Reg C-factor</b>	0.000 - 2.500	
		Extract air/room heat exchange regulator affection setting.		
95	282	<b>SA Heat Reg C-factor</b>	0.000 - 2.500	
		Supply air reheat regulator affection setting.		
96	285	<b>EA/Room Heat Reg C-factor</b>	0.000 - 2.500	
		Extract air/room reheat regulator affection setting.		

97	288	Reserve		
98	291	Reserve		
99	294	Reserve		
100	297	Reserve		
101	300	SA Down regulation Reg C-factor	0.000 - 2.500	
		Supply air reheat regulator affection setting.		
102	303	Reserve		
103	306	SA Cool reg C-factor	0.000 - 2.500	
		Supply air cool regulator affection setting.		
104	309	EA/Room Cool reg C-factor	0.000 - 2.500	
		Extract air/room cool regulator affection setting.		
105	312	SA Cooling boost C-factor	0.000 - 2.500	
		Supply air cooling boost affection setting.		
106	315	EA/Room Cooling boost reg C-factor	0.000 - 2.500	
		Extract air/room cooling boost regulator affection setting.		
107	318	HX Pressure alarm set.	30 - 100Pa	
		Heat exchange pressure alarm limit setting (alarm no.38).		
108	321	Reserve		
109	324	Reserve		
110	327	Reserve		
111	330	Reserve		
112	333	Reserve		
113	336	Reserve		
114	339	Reserve		
115	342	Reserve		
116	345	Reserve		
117	348	Reserve		

118	351	<b>Water heating periodic op. time</b>	0-60min	
		Setting of periodic op. time (minute).		
119	354	<b>Water heating interval</b>	0-168h	
		Setting of water heating intervall time (hour).		
120	357	<b>Cool periodic op. time</b>	0-60min	
		Setting of periodic op. time (minute).		
121	360	<b>Cool interval</b>	0-168h	
		Setting of cool interval time (hour).		
122	363	<b>Reserve</b>		
123	366	<b>EA/Room temperature com.</b>	-55.00-125.00°C	
		Setting of EA/Room temperature via communication.		
124	369	<b>Outdoor temperature com.</b>	-55.00-125.00°C	
		Setting of outdoor temperature via communication.		
125	372	<b>SA speed at fire.</b>	50.00-100.00%	
		Setting of supply air speed at fire.		
126	375	<b>EA speed at fire.</b>	50.00-100.00%	
		Setting of extract air speed at fire.		
127	378	<b>Reserve</b>		
128	381	<b>Timeout temperature com.</b>	0-9999min	
		Setting of timeout for temperature via communication (Vpac5 index 123, 124).		
129	384	<b>Reserve</b>		
130	387	<b>Supply air min P-band.</b>	1.00 - 40.00	
		Supply air min regulator P-band setting.		
131	390	<b>Supply air min C-factor.</b>	0.000 - 2.500	
		Supply air min regulator affection setting.		
132	393	<b>Supply air max P-band.</b>	1.00 - 40.00	
		Supply air max regulator P-band setting.		
133	396	<b>Supply air max C-factor.</b>	0.000 - 2.500	
		Supply air min regulator affection setting.		
134	399	<b>Year channel 1 start year.</b>	2000 - 2099	
135	402	<b>Year channel 1 stop year.</b>	2000 - 2099	
136	405	<b>Year channel 2 start year.</b>	2000 - 2099	
137	408	<b>Year channel 2 stop year.</b>	2000 - 2099	
138	411	<b>Year channel 3 start year.</b>	2000 - 2099	
139	414	<b>Year channel 3 stop year.</b>	2000 - 2099	
140	417	<b>Year channel 4 start year.</b>	2000 - 2099	
141	420	<b>Year channel 4 stop year.</b>	2000 - 2099	
142	423	<b>Year channel 5 start year.</b>	2000 - 2099	
143	426	<b>Year channel 5 stop year.</b>	2000 - 2099	
144	429	<b>Year channel 6 start year.</b>	2000 - 2099	
145	432	<b>Year channel 6 stop year.</b>	2000 - 2099	
146	435	<b>Year channel 7 start year.</b>	2000 - 2099	
147	438	<b>Year channel 7 stop year.</b>	2000 - 2099	
148	441	<b>Year channel 8 start year.</b>	2000 - 2099	

149	444	<b>Year channel 8 stop year.</b>	2000 - 2099	
150	447	<b>SA prefilter alarm limit.</b>	50-300Pa	
		Supply air prefilter pressure alarm limit setting.		
151	450	<b>EA prefilter alarm limit.</b>	50-300Pa	
		Extract air prefilter pressure alarm limit setting.		
152	453	<b>Reserve</b>		
153	456	<b>Reserve</b>		
154	459	<b>Reserve</b>		
155	462	<b>Reserve</b>		
156	465	<b>Reserve</b>		
157	468	<b>Reserve</b>		
158	471	<b>Reserve</b>		
159	474	<b>Reserve</b>		
160	477	<b>Reserve</b>		
161	480	<b>Reserve</b>		
162	483	<b>Reserve</b>		
163	486	<b>Reserve</b>		
164	489	<b>Reserve</b>		
165	492	<b>Preheating setpoint.</b>	-30.00-30.00°C	
		Setting of preheating temperature setpoint.		
166	495	<b>Reserve</b>		
167	498	<b>Reserve</b>		
168	501	<b>Reserve</b>		
169	504	<b>Reserve</b>		
170	507	<b>Reserve</b>		
171	510	<b>Reserve</b>		
172	513	<b>Reserve</b>		

173	516	Reserve		
174	519	Reserve		
175	522	Preheat P-band.	1.00 - 40.00	
		Preheat regulator P-band setting.		
176	525	Preheat C-factor.	0.000 - 2.500	
		Preheat regulator affection setting.		
177	528	Reserve		
178	531	Reserve		
179	534	Reserve		
180	537	Reserve		
181	540	Reserve		
182	543	Reserve		
183	546	Reserve		
184	549	Reserve		
185	552	SA Filter calculated alarm level	5.00 - 20.00%	
		Supply air filter calculated alarm limit setting.		
186	555	EA Filter calculated alarm level	5.00 - 20.00%	
		Extract air filter calculated alarm limit setting.		
187	558	Airing temp set	10.00 - 20.00	
		Setting of airing temperature setpoint.		

**Index var. Vpac 6 (R/W)**

Index	Cell nbr.	Name	Min/Max	Misc
1	0	<b>SA Fan regulation mode</b>	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.		
2	1	<b>EA Fan regulation mode</b>	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.		
3	2	<b>ERS Step</b>	1 - 4	
		Setting of curve when temperature is above brakepoint.		
4	3	<b>Temperature regulation mode.</b>	0 - 3	
		Setting of temperature regulation type. 0=ERS 1 reg, 1=ERS 2 reg, 2=SA reg, 3=EA/Room reg.		
5	4	<b>Cool regulation mode</b>	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		
6	5	<b>Heating boost regulation mode.</b>	0 - 1	
		Setting for heating boost function. 0=Deactive, 1=Active.		
7	6	<b>Cooling boost regulation mode.</b>	0 - 5	
		Setting of cooling boost regulation type. 0=deactive 1=Comfort 2=Economy 3=Sequence 4=Comfort + Economy 5=Economy + Sequence		
8	7	<b>Filter calibration mode</b>	0 - 4	
		Setting for required filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter. 4=HX.		
9	8	<b>Air adjustment time, minutes</b>	0 - 1728	
		Setting for amount of minutes to air adjustment function.		
10	9	<b>Air adjustment time, hours</b>	0 - 72	
		Setting for amount of hours to air adjustment function.		
11	10	<b>Summer night cool start, hour</b>	0-23	
		Setting for start time of summer night cooling function.		
12	11	<b>Summer night cool start, minute</b>	0-59	
		Setting for start time of summer night cooling function.		
13	12	<b>Summer night cool stop, hour</b>	0-23	
		Setting for stop time of summer night cooling function.		
14	13	<b>Summer night cool stop, minute</b>	0-59	
		Setting for stop time of summer night cooling function.		

15	14	<b>Reserve</b>		
16	15	<b>Reserve</b>		
17	16	<b>Morning boost time, hours</b>	0-23	
		Setting of morning boost time before normal operation.		
18	17	<b>Morning boost time, minutes</b>	0-59	
		Setting of morning boost time before normal operation.		
19	18	<b>Extended low speed op. Hours</b>	0-23	
		Setting for extended low speed operation.		
20	19	<b>Extended low speed op. Minutes</b>	0-59	
		Setting for extended low speed operation.		
21	20	<b>Extended high speed op. Hours</b>	0-23	
		Setting for extended low speed operation.		
22	21	<b>Extended high speed op. Minutes</b>	0-59	
		Setting for extended low speed operation.		
23	22	<b>Communication operation mode</b>	0 - 4	
		Setting of unit operation mode from communication. 0=Auto operation (Normal stop when time channels are deactivated). 1=Communication stop 1. 2=Communication low speed. 3=Communication high speed. 4=Communication stop 2 Intermittent night heat and morning boost functions works at stop 2.		
24	23	<b>Service periode alarm.</b>	0-99	
		Setting for delay time in months before service alarm.		
25	24	<b>Month</b>	1-12	
		Setting for the unit's internal clock.		
26	25	<b>Date</b>	0-31	
		Setting for the unit's internal clock.		
27	26	<b>Hour</b>	0-23	
		Setting for the unit's internal clock.		
28	27	<b>Minute</b>	0-59	
		Setting for the unit's internal clock.		
29	28	<b>Second</b>	0-59	
		Setting for the unit's internal clock.		
30	29	<b>Heat relay periodic func.</b>	0-3	
		Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		
31	30	<b>Cool relay 1 periodic func.</b>	0-3	
		Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve		



32	31	<b>Cool relay 2 periodic func.</b>	0-3																									
		Setting of periodic operation. 0=Inactive 1=Pump 2=Pump+valve 3=Valve																										
33	32	<b>Time channel 1 status</b>	0-10,16-26																									
		<table border="0"> <tr> <td><b>Low speed</b></td> <td><b>High speed</b></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>	<b>Low speed</b>	<b>High speed</b>	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		
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10=Saturday..Sunday	26=Saturday..Sunday																											
34	33	<b>Time channel 1 start hour</b>	0-23																									
35	34	<b>Time channel 1 start minute</b>	0-59																									
36	35	<b>Time channel 1 stop hour</b>	0-23																									
37	36	<b>Time channel 1 stop minute</b>	0-59																									
38	37	<b>Time channel 2 status</b>	0-10,16-26																									
39	38	<b>Time channel 2 start hour</b>	0-23																									
40	39	<b>Time channel 2 start minute</b>	0-59																									
41	40	<b>Time channel 2 stop hour</b>	0-23																									
42	41	<b>Time channel 2 stop minute</b>	0-59																									
43	42	<b>Time channel 3 status</b>	0-10,16-26																									
44	43	<b>Time channel 3 start hour</b>	0-23																									
45	44	<b>Time channel 3 start minute</b>	0-59																									
46	45	<b>Time channel 3 stop hour</b>	0-23																									
47	46	<b>Time channel 3 stop minute</b>	0-59																									
48	47	<b>Time channel 4 status</b>	0-10,16-26																									
49	48	<b>Time channel 4 start hour</b>	0-23																									
50	49	<b>Time channel 4 start minute</b>	0-59																									
51	50	<b>Time channel 4 stop hour</b>	0-23																									
52	51	<b>Time channel 4 stop minute</b>	0-59																									
53	52	<b>Time channel 5 status</b>	0-10,16-26																									
54	53	<b>Time channel 5 start hour</b>	0-23																									
55	54	<b>Time channel 5 start minute</b>	0-59																									
56	55	<b>Time channel 5 stop hour</b>	0-23																									
57	56	<b>Time channel 5 stop minute</b>	0-59																									
58	57	<b>Time channel 6 status</b>	0-10,16-26																									
59	58	<b>Time channel 6 start hour</b>	0-23																									
60	59	<b>Time channel 6 start minute</b>	0-59																									
61	60	<b>Time channel 6 stop hour</b>	0-23																									
62	61	<b>Time channel 6 stop minute</b>	0-59																									
63	62	<b>Time channel 7 status</b>	0-10,16-26																									
64	63	<b>Time channel 7 start hour</b>	0-23																									
65	64	<b>Time channel 7 start minute</b>	0-59																									

66	65	Time channel 7 stop hour	0-23	
67	66	Time channel 7 stop minute	0-59	
68	67	Time channel 8 status	0-10,16-26	
69	68	Time channel 8 start hour	0-23	
70	69	Time channel 8 start minute	0-59	
71	70	Time channel 8 stop hour	0-23	
72	71	Time channel 8 stop minute	0-59	
73	72	Handterminal language	0 - 18	
		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		
74	73	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.		
75	74	Reserve		
76	75	EA/Room temperature (external) func.	0-2	
		Setting of EA/Room temperature (external) function. 0= Inactive. 1= IQnomic. 2= Communication.		
77	76	Outdoor temperature (external) func.	0-2	
		Setting of outdoor temperature (external) function. 0= Inactive. 1= IQnomic. 2= Communication.		
78	77	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.		
79	78	Air fan down regulation func.	0-2	
		Setting for activating the air fan down regulation function 0= Inactive. 1= SA. 2= SA+EA.		

80	79	Year channel 1 function.	0 - 3	
		0 = Inactive. 1 = Stop. 2 = Low speed. 3 = High speed.		
81	80	Year channel 1 start month.	1 - 12	
82	81	Year channel 1 start date.	1 - 31	
83	82	Year channel 1 start hour.	0 - 23	
84	83	Year channel 1 start minute.	0 - 59	
85	84	Year channel 1 stop month.	1 - 12	
86	85	Year channel 1 stop date.	1 - 31	
87	86	Year channel 1 stop hour.	0 - 23	
88	87	Year channel 1 stop minute.	0 - 59	
89	88	Year channel 2 function.	0 - 3	
90	89	Year channel 2 start month.	1 - 12	
91	90	Year channel 2 start date.	1 - 31	
92	91	Year channel 2 start hour.	0 - 23	
93	92	Year channel 2 start minute.	0 - 59	
94	93	Year channel 2 stop month.	1 - 12	
95	94	Year channel 2 stop date.	1 - 31	
96	95	Year channel 2 stop hour.	0 - 23	
97	96	Year channel 2 stop minute.	0 - 59	
98	97	Year channel 3 function.	0 - 3	
99	98	Year channel 3 start month.	1 - 12	
100	99	Year channel 3 start date.	1 - 31	
101	100	Year channel 3 start hour.	0 - 23	
102	101	Year channel 3 start minute.	0 - 59	
103	102	Year channel 3 stop month.	1 - 12	
104	103	Year channel 3 stop date.	1 - 31	
105	104	Year channel 3 stop hour.	0 - 23	
106	105	Year channel 3 stop minute.	0 - 59	
107	106	Year channel 4 function.	0 - 3	
108	107	Year channel 4 start month.	1 - 12	
109	108	Year channel 4 start date.	1 - 31	
110	109	Year channel 4 start hour.	0 - 23	
111	110	Year channel 4 start minute.	0 - 59	
112	111	Year channel 4 stop month.	1 - 12	
113	112	Year channel 4 stop date.	1 - 31	
114	113	Year channel 4 stop hour.	0 - 23	
115	114	Year channel 4 stop minute.	0 - 59	
116	115	Year channel 5 function.	0 - 3	
117	116	Year channel 5 start month.	1 - 12	
118	117	Year channel 5 start date.	1 - 31	
119	118	Year channel 5 start hour.	0 - 23	
120	119	Year channel 5 start minute.	0 - 59	
121	120	Year channel 5 stop month.	1 - 12	
122	121	Year channel 5 stop date.	1 - 31	
123	122	Year channel 5 stop hour.	0 - 23	

124	123	Year channel 5 stop minute.	0 - 59	
125	124	Year channel 6 function.	0 - 3	
126	125	Year channel 6 start month.	1 - 12	
127	126	Year channel 6 start date.	1 - 31	
128	127	Year channel 6 start hour.	0 - 23	
129	128	Year channel 6 start minute.	0 - 59	
130	129	Year channel 6 stop month.	1 - 12	
131	130	Year channel 6 stop date.	1 - 31	
132	131	Year channel 6 stop hour.	0 - 23	
133	132	Year channel 6 stop minute.	0 - 59	
134	133	Year channel 7 function.	0 - 3	
135	134	Year channel 7 start month.	1 - 12	
136	135	Year channel 7 start date.	1 - 31	
137	136	Year channel 7 start hour.	0 - 23	
138	137	Year channel 7 start minute.	0 - 59	
139	138	Year channel 7 stop month.	1 - 12	
140	139	Year channel 7 stop date.	1 - 31	
141	140	Year channel 7 stop hour.	0 - 23	
142	141	Year channel 7 stop minute.	0 - 59	
143	142	Year channel 8 function.	0 - 3	
144	143	Year channel 8 start month.	1 - 12	
145	144	Year channel 8 start date.	1 - 31	
146	145	Year channel 8 start hour.	0 - 23	
147	146	Year channel 8 start minute.	0 - 59	
148	147	Year channel 8 stop month.	1 - 12	
149	148	Year channel 8 stop date.	1 - 31	
150	149	Year channel 8 stop hour.	0 - 23	
151	150	Year channel 8 stop minute.	0 - 59	
152	151	Filter select.	0 - 3	
		Setting for filter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
153	152	Prefilter select.	0 - 3	
		Setting for prefilter select function. 0=Inactive. 1=Supply air. 2=Extract air. 3=SA+EA.		
154	153	Prefilter calibration mode.	0 - 3	
		Setting for required filtercalibration. 0=Inactive. 1=SA+EA-Filter. 2=SA-Filter. 3=EA-Filter.		
155	154	Reserve		
156	155	Reserve		

157	156	<b>Reserve</b>		
158	157	<b>Reserve</b>		
159	158	<b>Preheating function.</b>	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.		
160	159	<b>Reserve</b>		
161	160	<b>Reserve</b>		
162	161	<b>Reserve</b>		
163	162	<b>Mode digital output relay 1</b>	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.		
164	163	<b>Mode digital output relay 2</b>	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.		
165	164	<b>Mode digital input 1</b>	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.		
166	165	<b>Mode digital input 2</b>	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.		

167	166	<b>Manual morning boost time hour</b>	0-23	
		Setting of manual morning boost time before normal operation.		
168	167	<b>Manual morning boost time minutes</b>	0-59	
		Setting of manual morning boost time before normal operation.		
169	168	<b>Airing time set</b>	10-60	
		Setting of airing time in minutes.		
170	169	<b>Manual operation drift mode</b>	0-4	
		Setting of manual operation drift mode. 0=Normal operation. 1=Extended operation. 2=Airing. 3=Heating. 4=Heating+Recirc.		

**Logical var. Vpac 7 (R/W)**

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

15	14	<b>Auto. Summer/winter switch</b>	0-1	
		Setting for activating the automatic switch between summer/winter time function. 0= Inactive. 1= Active.		
16	15	<b>Switch clock func.</b>	0-1	
		Setting for switch clock function type. 0=Stop - low speed - high speed. 1=Low speed - high speed.		
17	16	<b>Internal fire alarm func.</b>	0-1	
		Setting for activating the internal fire alarm function. 0= Inactive. 1= Active.		
18	17	<b>Reserve</b>		
19	18	<b>External alarm 1 active at closure</b>	0-1	
		Setting for external alarm number 1 condition to be activated. 0=Alarm at closed input. 1=Alarm at open input.		
20	19	<b>External alarm 2 active at closure</b>	0-1	
		Setting for external alarm number 2 condition to be activated. 0=Alarm at closed input. 1=Alarm at open input.		
21	20	<b>Reserve</b>		
22	21	<b>Reserve</b>		
23	22	<b>Reserve</b>		
24	23	<b>External fire alarm func.</b>	0-1	
		Setting for external fire resetting function. 0= Manual. 1= Automatic.		
25	24	<b>External alarm 1 func.</b>	0-1	
		Setting for external alarm 1 resetting function. 0= Manual. 1= Automatic.		
26	25	<b>External alarm 2 func.</b>	0-1	
		Setting for external alarm 2 resetting function. 0= Manual. 1= Automatic.		
27	26	<b>Reserve</b>		
28	27	<b>Reserve</b>		
29	28	<b>Morningboost damper func.</b>	0-1	
		Setting for activating the morningboost damper function. 0= Inactive. 1= Active.		



<b>30</b>	<b>29</b>	<b>Morningboost extract func.</b>	0-1	
		Setting for activating the morningboost extract air fan function. 0= Inactive. 1= Active.		
<b>31</b>	<b>30</b>	<b>Filter func.</b>	0-1	
		Setting for filter between calculated and pressure sensors. 0=Calculated. 1=Pressure sensors.		
<b>32</b>	<b>31</b>	<b>Iqnomiq Plus module no.6 Cooling</b>	0-1	
		Setting for activating Iqnomiq Plus no.6 Cooling module. 0=Inactive. 1=Active.		
<b>33</b>	<b>32</b>	<b>Airing auto func.</b>	0-1	
		Setting for activating the airing auto function. 0=Inactive. 1=Active.		

