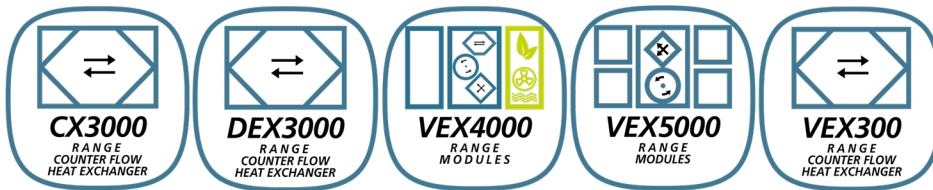


GB

# Alarm summary

## EXcon automatic



Original instructions



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# 1. Alarm log

## 1.1 In general

The parameters in the menu **Alarm log** are used to log alarms and operating data which have occurred since the last startup of the VEX unit. A log is kept of which alarms have occurred, which alarms are nearing their limit values and operating data history. The logged alarms can be reviewed via the web user interface or the HMI Touch control panel/manual terminal. Apart from current alarms, the on-line user interface also shows impending alarms and the logged operating data.

For a more detailed description of the parameters, see under: **User > Alarm & log**

### 1.1.1 Alarms

Whether an alarm will activate a shutdown will depend on the type of alarm. A distinction is made between A alarms and B alarms, where A alarms activate a shutdown.

No.	Current alarms
2	External fire thermostat alarm
7	Supply air EC controller: No communication
8	Extract air EC controller: No communication
11	FanIO 1: No communication
12	FanIO 2: No communication
13	Expansion module EXT 1: No communication
14	Expansion module EXT 2: No communication
15	LON gateway: No communication
108	Expansion module45 1 (EXT45 1): No communication
133	Damper motor (outdoor air), ID 130: No communication
134	Damper motor (exhaust air), ID 131: No communication
135	Damper motor (recirculation), ID 132: No communication
136	Damper motor (heat exchanger), ID 133: No communication
141	Valve motor (heating 1), ID 138: No communication
142	Valve motor (cooling), ID 139: No communication
143	Valve motor (heating 2), ID 140: No communication

#### List of current alarms in the system

- Red alarm text is A alarms
- Blue alarm text is B alarms

Press **Cancel alarms** to acknowledge alarms. The list and the active alarms which are still active are restored and displayed.



## 2. Alarm summery

### 2.1 Alarm list web server

#### 2.1.1 Alarm nos. 1-99

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
1	A	3	N/A			Fire alarm
						Fire alarm via digital input
2	A	3	N/A		X	External fire thermostat alarm
						External fire thermostat alarm via digital input
3	A	3	N/A		X	Internal fire alarm
						High supply air/extract air temperature in air handling unit
4	B	3	N/A	X	X	External stop activated
						External stop activated via digital input
7	A	3	N/A	X	X	Supply air EC controller: No communication
						EC controller not connected to bus in FanIO connector B. Fault in bus cable. The bus cable in EC is connected to FanIO connector A instead of B
8	A	3	N/A	X	X	Extract air, EC controller: No communication
						EC controller not connected to bus in FanIO connector B. Fault in bus cable. The bus cable in EC is connected to FanIO connector A instead of B
9	B	1200	N/A	X		Airflow compensation of filter monitor is not measured
						Measurement of filter pressure reference not executed. Triggered after 20 minutes.
10	B	3	N/A	X		Manual terminal: No communication
						Manual terminal not connected to bus. Fault in bus cable
11	A	3	N/A	X	X	FanIO 1: No communication
						FanIO not connected to bus in FanIO socket A, Error in bus cable, FanIO DIP switches wrongly set
12	A	3	N/A	X	X	FanIO 2: No communication
						FanIO not connected to bus in FanIO socket A, Error in bus cable, FanIO DIP switches wrongly set
13	A	3	N/A	X	X	Expansion module EXT 1: No communication
						EXT 1 expansion module not connected to bus. Fault in bus cable. Address button is wrong.
14	A	3	N/A	X	X	Expansion module EXT 2: No communication
						EXT 1 expansion module not connected to bus. Fault in bus cable. Address button is wrong.
15	B	3	N/A	X		LON gateway: No communication
						LON not connected to bus, fault in bus cable.
16	A	3	N/A	X	X	Supply air freq. conv.: No communication
						Frequency converter not connected to bus in FanIO connector B. Fault in the bus cable. The bus cable in FC is connected in FanIO connector A instead of B.
17	A	3	N/A	X	X	Extract air freq. conv.: No communication

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Frequency converter not connected to bus in FanIO connector B. Fault in the bus cable. The bus cable in FC is connected in FanIO connector A instead of B.
18	A	3	N/A	X	X	Rotary heat exchanger (RHX2M): No communication
						RHX2M not connected to bus. Fault in bus cable
19	A	3	N/A	X	X	Pressure transmitter (PTH): No communication
						PTH not connected to bus. Fault in bus cable. Address button set wrong.
20	A	10	N/A	X	X	Temperature sensor error: Supply air
						Supply air temp. sensor disconnected/short-circuited, sensor not configured to a temperature input.
21	A	10	N/A	X	X	Temperature sensor error: Extract air
						Extract air temp. sensor disconnected/short-circuited, sensor not configured to a temperature input
22	A	10	N/A	X	X	Temperature sensor error: Rooms
						Room air temp. sensor disconnected/short-circuited. Sensor not configured for a temperature input
23	A	10	N/A	X	X	Temperature sensor error: Return
						Exhaust air temp. sensor disconnected/short-circuited. Sensor not configured for a temperature input
24	A	10	N/A	X	X	Temperature sensor error: Outdoor air temperature
						Outdoor air temp. sensor disconnected/short-circuited. Sensor not configured for a temperature input
25	A	10	N/A	X	X	Temperature sensor error: Water heating coil 1
						Water heating coil temp. sensor disconnected/short-circuited. Sensor not configured for a temperature input
26	A	10	N/A	X	X	Temperature sensor error: Heat recovery
						Recovery temp. sensor disconnected/short-circuited. Sensor not configured for a temperature input.
27	A	10	N/A		X	Pump alarm: Water heating coil 1
						Heating coil 1. Fault on pump.
28	A	10	N/A		X	Frost alarm: Water heating coil 1
						Low supply temperature. Circulation pump defective. Low outdoor air temperature
30	A	3	N/A		X	Supply air freq. conv.: Low supply voltage (Vlo)
						Mains voltage to supply air frequency converter is low. Check supply voltage.
31	A	3	N/A		X	Supply air freq. conv.: High supply voltage (Vhi)
						High mains supply. Stop ramp time too short
32	A	3	N/A		X	Supply air freq. conv.: High output current (Ihi)
						Short-circuit in motor or cable. Motor blocked. Wrong motor type
33	A	3	N/A		X	Supply air freq. conv.: High temperature (Thi)
						High ambient temperature. Overload of frequency converter
34	A	3	N/A		X	Supply air freq. conv.: Loss of supply phase
						Mains voltage lacking a phase
35	B	3	N/A			Supply air freq. conv.: High internal ripple voltage
						Mains voltage unstable. Frequency converter overloaded

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
37	A	3	N/A		X	Supply air fan, alarm
						Supply air fan, alarm
38	B	600	N/A			Outdoor air filter
						Pressure drop over supply air filter too high, filter blocked
39	A	10	N/A		X	FanIO 1: +24V DC overloaded
						+24 VDC from FanIO 1 terminals 14,16,18 short-circuited. Current consumption from FanIO 1 exceeds 0.6 A.
40	A	3	N/A		X	Extract air freq. conv.: Low supply voltage (Vlo)
						Mains voltage to extract air frequency converter is low. Check supply voltage.
41	A	3	N/A		X	Extract air freq. conv.: High supply voltage (Vhi)
						High mains supply. Stop ramp time too short
42	A	3	N/A		X	Extract air freq. conv.: High output current (Ihi)
						Short-circuit in motor or cable. Motor blocked. Wrong motor type
43	A	3	N/A		X	Extract air freq. conv.: High temperature (Thi)
						High ambient temperature. Overload of frequency converter
44	A	3	N/A		X	Extract air freq. conv.: Loss of supply phase
						Mains voltage missing a phase
45	B	3	N/A			Extract air freq. conv.: High internal ripple voltage
						Mains voltage unstable. Frequency converter overloaded
47	A	3	N/A		X	Exhaust air/extract air fan, alarm
						Exhaust air/extract air fan, alarm
48	B	600	N/A			Extract air filter
						Pressure drop across extract air filter too high. Filter blocked
49	A	10	N/A		X	FanIO 2: +24V DC overloaded
						+24V DC from FanIO 1 terminals 14,16,18 short-circuited. Current consumption from FanIO 2 exceeds 0.6 A.
50	B	3	N/A			Rotary heat exchanger (RHX2M): No rotation
						No pulses from rotation monitor. Belt to rotor snapped. Rotor too slow due to misalignment.
51	B	3	N/A			Rotary heat exchanger (RHX2M): Low supply voltage (Vlo)
						Low mains supply: Check main supply
52	B	3	N/A			Rotary heat exchanger (RHX2M): High supply voltage (Vhi)
						High mains voltage: control mains power supply
53	B	3	N/A			Rotary heat exchanger (RHX2M): High output current (Ihi)
						Short-circuit in motor or cable. Motor blocked. Wrong motor type
54	B	3	N/A			Rotary heat exchanger (RHX2M): High internal temperature
						High ambient temperature. Overload of the RHX2M control system.
55	B	3	N/A			Rotary heat exchanger (RHX2M): Torque overload
						Rotor too slow due to misalignment. Step motor unable to drive the rotor at correct rpm.
58	A	300	N/A		X	Frost alarm heat exchanger

Alarm no.	Alarm type	Alarm delay, sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Exhaust air temperature under frost limit, even though bypass damper is fully open (0 V)
59	A	600	N/A		X	No heat recovery. Low temperature Recovery temperature in liquid-connected heat recovery coil too low for more than 10 minutes.
60	A	600	SP-5°C		X	Low supply air temperature Supply air temperature has been too low for more than 10 minutes. Insufficient heating available. Low outdoor air temperature.
61	B	600	SP+5°C			High supply air temperature Supply air temperature has been too high for more than 10 minutes. Insufficient cooling available. High outdoor air temperature.
62	B	1200	SP-5°C			Low extract air temperature Extract air temperature has been too low for more than 20 minutes. Max. supply air temperature too low. Airflow too low.
63	B	1200	SP+5°C			High extract air temperature Extract air temperature has been too high for more than 20 minutes. Min. supply air temperature too high. Airflow too low.
65	B	300	N/A	X		Heating 1 disconnected due to low airflow Airflow through electric heating coil too low for more than 5 minutes.
66	B	3	N/A			Electric heating coil 1: Overheating alarm Overheating thermostat in electric heating coil has cut out.
67	B	3	N/A			Reduced airflow Airflow reduced due to insufficient available heating for more than 10 minutes.
68	B	3	N/A			Contactors for electric heating coil 1 is stuck Electric heating coil 1 cannot cut out because of fault in contactor.
70	B	1200	N/A	X		VOC/CO2 level is too high VOC/CO2 level too high for more than 20 minutes. Max. airflow too low.
71	A	600	SP-10%		X	Low supply airflow Supply airflow too low for more than 10 minutes
72	A	600	SP+10%		X	High supply airflow Supply airflow too high for more than 10 minutes
73	A	600	SP-10%		X	Low extract airflow Extract airflow too low for more than 10 minutes
74	A	600	SP+10%		X	High extract airflow Extract airflow too high for more than 10 minutes
75	B	600	SP-10%			Low supply air pressure Supply air pressure too low for more than 10 minutes
76	A	600	SP+10%		X	High supply air pressure Supply air pressure too high for more than 10 minutes
77	B	600	SP-10%			Low extract air pressure Extract air pressure too low for more than 10 minutes
78	A	600	SP+10%		X	High extract air pressure

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Extract air pressure too high for more than 10 minutes
80	B	3	N/A			Cooling error
						cooling error: Alarm from cooling appliance.
81	B	3	N/A			Low cooling pressure circuit 1
						Cooling circuit 1: Pressure in evaporator too low. Lack of coolant/leakage
82	B	3	N/A			High cooling pressure circuit 1
						Cooling circuit 1: Pressure in condenser too high. Too much coolant. High temperature in condenser.
83	B	3	N/A			Cooling error 1: Compressor 1 overheated circuit 1
						Cooling error 1: Compressor 1 overheated circuit 1
84	B	3	N/A			Cooling error 2: Compressor 2 overheated circuit 1
						Cooling error 2: Compressor 2 overheated circuit 1
85	B	3	N/A			Low cooling pressure circuit 2
						Cooling circuit 2: Pressure in evaporator too low. Lack of coolant/leakage
86	B	3	N/A			High cooling pressure circuit 2
						Cooling circuit 2: Pressure in condenser too high. Too much coolant. High temperature in condenser.
87	B	3	N/A			Cooling error 3: Compressor 1 overheated circuit 2
						Cooling error 3: Compressor 1 overheated circuit 2
88	B	3	N/A			Cooling error 4: Compressor 2 overheated circuit 2
						Cooling error 4: Compressor 2 overheated circuit 2
90	B	3	N/A			Pressure transmitter error: DX low pressure 1
						Pressure transmitter error: DX low pressure 1. Transmitter is disconnected or short-circuited
91	B	3	N/A			Pressure transmitter error: DX high pressure 1
						Pressure transmitter error: DX high pressure 1. Transmitter is disconnected or short-circuited
92	B	3	N/A			Pressure transmitter error: DX low pressure 2
						Pressure transmitter error: DX low pressure 2. Transmitter is disconnected or short-circuited
93	B	3	N/A			Pressure transmitter error: DX high pressure 2
						Pressure transmitter error: DX high pressure 2. Transmitter is disconnected or short-circuited
94	B	3	N/A	X		VOC/CO <sub>2</sub> sensor not configured
						VOC/CO <sub>2</sub> sensor not configured
95	B	3	N/A	X		FanOpt. supply air not configured
						FanOpt. supply air not configured
96	B	3	N/A	X		FanOpt. extract air not configured
						FanOpt. extract air not configured



## 2.1.2 Alarm nos. 100-199

Alarm no.	Alarm type	Alarm delay, sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
100	A	3	N/A	X	X	Pressure transmitter 0 (PTH6202): No communication
						Pressure transmitter 0 (PTH6202): No communication
101	A	3	N/A	X	X	Pressure transmitter 1 (PTH6202): No communication
						Pressure transmitter 1 (PTH6202): No communication
103	A	3	N/A	X	X	Pressure transmitter 3 (PTH6202): No communication
						Pressure transmitter 3 (PTH6202): No communication
104	A	3	N/A	X	X	Pressure transmitter 4 (PTH6202): No communication
						Pressure transmitter 4 (PTH6202): No communication
105	A	3	N/A	X	X	Pressure transmitter 5 (PTH6202): No communication
						Pressure transmitter 5 (PTH6202): No communication
106	A	3	N/A	X	X	Pressure transmitter 6 (PTH6202): No communication
						Pressure transmitter 6 (PTH6202): No communication
107	A	3	N/A	X	X	Pressure transmitter 7 (PTH6202): No communication
						Pressure transmitter 7 (PTH6202): No communication
108	A	3	N/A	X		Expansion module45 1 (EXT45 1): No communication
						EXT45 1 not connected to bus, fault in bus cable. Address button set wrong
109	A	3	N/A	X		Expansion module45 2 (EXT45 2): No communication
						EXT45 2 not connected to bus, fault in bus cable, address button set wrong
111	B	3	N/A	X		Pressure transmitter, supply air (PTH6202): No communication
						Pressure transmitter not connected to bus: Fault in bus cable. Address button wrong.
112	B	3	N/A	X		Pressure transmitter, extract air (PTH6202): No communication
						Pressure transmitter not connected to bus: Fault in bus cable. Address button wrong.
113	B	10	N/A	X		VOC/CO <sub>2</sub> sensor error: Sensor disconnected/short-circuited
						VOC/CO <sub>2</sub> sensor interrupted/short-circuited. The sensor is not configured for an analogue input
115	A	3	N/A		X	Supply air, EC controller: Alarm stop
						Motor stopped due to alarm from EC controller
116	A	3	N/A		X	Supply air, EC controller: Rotor blocked
						EC motor is blocked
117	B	3	N/A			Supply air, EC controller: Power restriction active
						Ramp time too short. Motor overloaded. Wrong motor type
118	B	3	N/A			Supply air, EC controller: Low supply voltage (Vlo)
						Low mains supply
119	B	3	N/A			Supply air, EC controller: High supply voltage (Vhi)
						High mains supply
120	B	3	N/A			Supply air, EC controller: High temperature (Thi)
						High ambient temperature. Overload of EC controller
121	B	3	N/A			Supply air, EC controller: High internal ripple voltage

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Mains voltage unstable
122	A	3	N/A		X	Extract air, EC controller: Alarm stop Motor stopped due to alarm from EC controller
123	A	3	N/A		X	Extract air, EC controller: Rotor blocked EC motor is blocked
124	B	3	N/A			Extract air, EC controller: Power restriction active Ramp time too short. Motor overloaded. Wrong motor type
125	B	3	N/A			Extract air, EC controller: Low supply voltage (Vlo) Low mains supply
126	B	3	N/A			Extract air, EC controller: High supply voltage (Vhi) High mains supply
127	B	3	N/A			Extract air, EC controller: High temperature (Thi) High ambient temperature. Overload of EC controller
128	B	3	N/A			Extract air, EC controller: High internal ripple voltage Mains voltage unstable
129	B	3	N/A			Supply air, EC controller: Loss of supply phase Mains voltage lacking a phase
130	B	3	N/A			Extract air, EC controller: Loss of supply phase Mains voltage lacking a phase
131	A	3	N/A	X	X	FanIO 1: No communication FanIO not connected to bus in FanIO socket A, error in bus cable, FanIO DIP switches are wrongly set
132	A	3	N/A	X	X	FanIO 2: No communication FanIO not connected to bus in FanIO socket A, error in bus cable, FanIO DIP switches are wrongly set
133	A	3	N/A	X	X	Damper motor (supply air), ID 130: No communication Motor not connected to bus. Error in bus cable. Motor address must be set to 130dec /82hex
134	A	3	N/A	X	X	Damper motor (exhaust air), ID 131: No communication Motor not connected to bus. Error in bus cable. Motor address must be set to 131dec /83hex
135	A	3	N/A	X	X	Damper motor (recirculation), ID 132: No communication Motor not connected to bus. Error in bus cable. Motor address must be set to 132dec /84hex
136	A	3	N/A	X	X	Damper motor (heat exchanger), ID 133: No communication Motor not connected to bus. Error in bus cable. Motor address must be set to 133dec /85hex
137	A	3	N/A	X	X	Damper motor (drying damper), ID 134: No communication Motor not connected to bus. Error in bus cable. Motor address must be set to 134 decimal/86 hex
138	A	3	N/A	X	X	Damper motor (6), ID 135: No communication Motor not connected to bus. Error in bus cable. Motor address must be set to 135 decimal/87 hex

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
139	A	3	N/A	X	X	Damper motor (Smoke-evacuation damper), ID 136: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 136 decimal/88 hex
140	A	3	N/A	X	X	Damper motor (8), ID 137: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 137 decimal/89 hex
141	A	3	N/A	X	X	Valve motor (heating 1), ID 138: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 138dec /8Ahex
142	A	3	N/A	X	X	Valve motor (cooling), ID 139: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 139dec /8Bhex
143	A	3	N/A	X	X	Valve motor (Heating 2), ID 140: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 140dec /8Chex
144	A	3	N/A	X	X	Valve motor (heat exchanger), ID 141: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 141dec /8Dhex
145	A	3	N/A	X	X	Valve motor (pre-heating), ID 142: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 142dec /8Ehex
146	A	3	N/A	X	X	Valve motor (6) ID 143: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 143dec /8Fhex
147	A	3	N/A	X	X	Valve motor (7) ID 144: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 144 decimal/90 hex
148	A	3	N/A	X	X	Valve motor (8) ID 145: No communication
						Motor not connected to bus. Error in bus cable. Motor address must be set to 145 decimal/91 hex
149	B	10	N/A	X		Damper motor (outside air): Unable to reach setpoint
						Check whether damper is blocked
150	B	10	N/A	X		Damper motor (exhaust air): Unable to reach setpoint
						Check whether damper is blocked
151	B	10	N/A	X		Damper motor (recirculation): Unable to reach setpoint
						Check whether damper is blocked
152	B	10	N/A	X		Damper motor (heat exchanger): Unable to reach setpoint
						Check whether damper is blocked
153	B	10	N/A	X		Damper motor (drying damper): Unable to reach setpoint
						Check whether damper is blocked
154	B	10	N/A	X		Damper motor (6): Unable to reach setpoint
						Check whether damper is blocked
155	B	10	N/A	X		Damper motor (Smoke-evacuation damper): Unable to reach setpoint

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Check whether damper is blocked
156	B	10	N/A	X		Damper motor (8): Unable to reach setpoint
						Check whether damper is blocked
157	B	10	N/A	X		Valve motor (heating 1): Unable to reach setpoint
						Check whether valve is blocked
158	B	10	N/A	X		Valve motor (cooling): Unable to reach setpoint
						Check whether valve is blocked
159	B	10	N/A	X		Valve motor (Heating 2): Unable to reach setpoint
						Check whether valve is blocked
160	B	10	N/A	X		Valve motor (heat exchanger): Unable to reach setpoint
						Check whether valve is blocked
161	B	10	N/A	X		Valve motor (pre-heating): Unable to reach setpoint
						Check whether valve is blocked
162	B	10	N/A	X		Valve motor (6): Unable to reach setpoint
						Check whether valve is blocked
166	B	360	N/A			Fire damper not closed
						Fire damper not closed. Check damper
167	B	360	N/A			Fire damper not open
						Fire damper not open. Check damper
168	B	300	N/A	X		Heating 2 cut out due to low airflow
						Airflow through the electric heating coil too low for more than 5 minutes
169	B	30	N/A			Electric heating coil 2: overheating alarm
						Overheating thermostat in electric heating coil 2 disconnected
170	B	30	N/A			Contact for electric heating coil 2 is stuck
						Digital input "Heating coil 2 error" closed when heating relay 21 is open. Contact surface burned in position
171	A	10	N/A	X	X	Temperature sensor error: Water heating coil 2
						Water heating coil temp. sensor disconnected/short-circuited. Sensor not configured for a temperature input
172	A	10	N/A		X	Pump alarm, heating 2
						Digital input water heating coil 2 error
173	A	10	N/A		X	Frost alarm water heating coil 2
						Low supply temperature. Circulation pump defective. Low outdoor air temperature
174	A	10	N/A	X	X	Temperature sensor error: combi-coil
						Combi-coil return water sensor disconnected/short-circuited. Sensor not configured for a temperature input
175	A	10	N/A		X	Pump alarm combi-coil
						Digital input "Combi-coil alarm" open. Alarm from circulation pump
176	A	10	N/A		X	Combi-coil heating frost alarm
						Combi-coil heating frost alarm
177	A	10	N/A		X	Combi-coil cooling frost alarm
						Combi-coil cooling frost alarm

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
178	B	10	N/A			Alarm from heat exchanger or circulation pump
						Digital input "Heat exchanger alarm" open or alarm from circulation pump
179	B	10	N/A	X		Temperature sensor error: heating pump
						Air temp. sensor on heat pump condenser has been interrupted/short-circuited, sensor not configured for a temp. input
180	A	10	N/A		X	Frost alarm, Air
						Frost thermostat read out: Low feed temperature, Circulation pump defective, Low outdoor air temp.
181	B	10	N/A	X		Pressure transmitter heat pump is not configured
						Pressure transmitter for dynamic de-icing of heat pump is not configured
182	B	1200	N/A	X		Dynamic de-icing heat pump not measured
183	B	10	N/A	X		Pressure transmitter, crossflow heat exchanger is not configured
184	B	1200	N/A	X		Dynamic de-icing crossflow heat exchanger is not measured
187	B	10	N/A			HWC cool/freeze pump alarm
188	B	10	N/A	X		HWB cool-freeze Temperature sensor before condenser
						HWB cool/freeze temp. sensor disconnected/short-circuited. The sensor is not configured for a temperature input.
189	B	10	N/A	X		HWB cool-freeze Temperature sensor after condenser
						HWB cool/freeze temp. sensor disconnected/short-circuited. The sensor is not configured for a temperature input.
190	B	10	N/A	X		Room temperature sensor 1, Alarm
						Supply air temp. sensor disconnected/short-circuited, sensor not configured to a temperature input.
191	B	10	N/A	X		Room temperature sensor 2, Alarm
						Room temperature sensor disconnected/short-circuited, sensor not configured for a temperature input.
192	A	10	N/A		X	Return water temperature sensor, Alarm
193	B	10	N/A	X		Return water temperature sensor is not configured.
194	B	10	N/A	X		Humidity sensor (HTH6202): No communication
						Humidity sensor (HTH6202): No communication
195	B	10	N/A	X		Humidity sensor (HTH6203): No communication
						Humidity sensor (HTH6203): No communication
196	B	10	N/A	X		Humidifier: Configuration error
						Outputs to humidifier are not configured
197	B	10	N/A	X		Humidifier: Alarm
						Alarm input from humidifier is activated
198	B	1200	N/A	X		High air humidity in the supply air
						High air humidity in the supply air
199	B	1200	N/A	X		Low air humidity in the supply air
						Low air humidity in the supply air

## 2.1.3 Alarm nos. 200-299

Alarm no.	Alarm type	Alarm delay, sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
200	B	1200	N/A	X		High air humidity in the extract air
						High air humidity in the extract air
201	B	1200	N/A	X		Low air humidity in the extract air
						Low air humidity in the extract air
202	B	10	N/A	X		Sensor error in water cooling
						Sensor error in water cooling
203	A	3	N/A	X	X	Expansion module EXT 3: No communication
						EXT 3 expansion module not connected to bus, fault in bus cable, address button is wrong
204	A	3	N/A	X	X	Expansion module EXT 4: No communication
						EXT 4 expansion module not connected to bus, fault in bus cable, address button is wrong
205	A	3	N/A	X	X	Expansion module EXT 5: No communication
						EXT 5 expansion module not connected to bus, fault in bus cable, address button is wrong
206	A	3	N/A	X	X	Expansion module EXT 6: No communication
						EXT 6 expansion module not connected to bus, fault in bus cable, address button is wrong
207	A	3	N/A	X	X	Expansion module EXT 7: No communication
						EXT 7 expansion module not connected to bus, fault in bus cable, address button is wrong
208	B	3	N/A	X		Room control: No communication
						Room control: No communication
209	B	3	N/A	X		VTH-6202, VOC sensor, no communication
						VTH-6202, VOC sensor not connected to bus. Fault in bus cable
210	B	600	N/A	X		VTH-6202, VOC sensor error
						VTH-6202, VOC sensor error, measured value outside measurement range
211	B	10	N/A	X		HTH6204, humidity sensor: No communication
						HTH6204, humidity sensor not connected to bus. Fault in bus cable
212	B	10	N/A	X		Dew point sensor error
						Dew point sensor error
213	B	300	N/A	X		Low recovery rate, Alarm 213
						Alarm 213 triggered
214	A	3	N/A	X	X	Expansion module EXT 8: No communication
						EXT 8 expansion module not connected to bus, fault in bus cable, address button is wrong
215	B	30	N/A	X		Pre-heating coil: Contactor error
						Contactor for pre-heating coil is stuck
216	B	30	N/A	X		Pre-heating coil: Overheating alarm
						Pre-heating coil: Overheating alarm
217	A	10	N/A	X	X	Pre-heating coil, hot water sensor error

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Pre-heating coil, hot water sensor error
218	A	10	N/A		X	Pre-heating coil, pump alarm
						Pre-heating coil, pump alarm
219	A	10	N/A		X	Pre-heating coil, frost alarm
						Pre-heating coil, frost alarm
220	A	10	N/A	X	X	Pre-heating coil, airflow sensor error
						Pre-heating coil, airflow sensor error
221	B	300	N/A	X		Pre-heating coil, reduced output
						Pre-heating coil, reduced output
222	B	300	N/A	X		Heat exchanger efficiency is too low
						Heat exchanger efficiency is below minimum setpoint
223	A	3	N/A	X	X	Supply air frequency converter (ATV): No communication
						ATV not connected to bus in FanIO socket, Error in bus cable
224	A	3	N/A	X	X	Extract air freq. conv. (ATV): No communication
						ATV not connected to bus in FanIO connector B, fault in bus cable
225	B	10	N/A			Error ATV supply air frequency converter
						An error has been registered in the ATV supply air frequency converter: further information via the ATV display
226	B	10	N/A			Error ATV extract air frequency converter
						An error has been registered in the ATV extract air frequency converter: further information via the ATV display
227	A	10	N/A		X	Frost alarm liquid connected heat exchanger
228	B	30	N/A			Switch for frost protection battery stuck
229	B	30	N/A			Electric frost protection battery: Overheating alarm
						Overheating thermostat in electric frost protection battery disconnected
230	B	300	N/A	X		Reduced frost protection on frost protection battery
						Power on electrical frost protection battery reduced due to low flow
231	B	1200		X		De-icing pressure, rotary heat exchanger is not measured
						De-icing pressure, rotary heat exchanger is not measured, dynamic pressure control cannot be used.
232	B	3	N/A	X		PTH sensor, rotary heat exchanger, configuration error
						PTH sensor (extract air/exhaust air) rotary heat exchanger not configured
233	B	1800	N/A	X		Rotary heat exchanger is iced up
						Rotary heat exchanger is iced up. Outdoor air temperature is lower than 0°C and the pressure drop across the rotor has been higher than the setpoint for more than 30 minutes
234	B	1800	N/A			Rotary heat exchanger is soiled
						Rotary heat exchanger is soiled. Outdoor air temperature is higher than 0°C and the pressure drop across the rotor has been higher than the setpoint for more than 30 minutes
235	A	3	N/A		X	Supply air, EC-2 controller: Alarm stop
						Motor stopped due to alarm from EC-2 controller
236	A	3	N/A		X	Supply air, EC-2 controller: Rotor blocked

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						EC-2 motor is blocked
237	B	3	N/A			Supply air, EC-2 controller: Power restriction active Ramp time too short. Motor (EC-2) overloaded. Wrong motor type
238	B	3	N/A			Supply air, EC-2 controller: Low supply voltage (Vlo) Low mains supply (EC-2)
239	B	3	N/A			Supply air, EC-2 controller: High supply voltage (Vhi) High mains supply (EC-2)
240	B	3	N/A			Supply air, EC-2 controller: High temperature (Thi) High ambient temperature. Overload of EC-2 controller
241	B	3	N/A			Supply air, EC-2 controller: High internal ripple voltage Mains voltage unstable (EC-2)
242	A	3	N/A		X	Extract air, EC-2 controller: Alarm stop Motor stopped due to alarm from EC-2 controller
243	A	3	N/A		X	Extract air, EC-2 controller: Rotor blocked EC-2 motor is blocked
244	B	3	N/A			Extract air, EC-2 controller: Power restriction active Ramp time too short. Motor (EC-2) overloaded. Wrong motor type
245	B	3	N/A			Extract air, EC-2 controller: Low supply voltage (Vlo) Low mains supply (EC-2)
246	B	3	N/A			Extract air, EC-2 controller: High supply voltage (Vhi) High mains supply (EC-2)
247	B	3	N/A			Extract air, EC-2 controller: High temperature (Thi) High ambient temperature. Overload of EC-2 controller
248	B	3	N/A			Extract air, EC-2 controller: High internal ripple voltage Mains voltage unstable (EC-2)
249	B	3	N/A			Supply air, EC-2 controller: Loss of supply phase Mains voltage lacking a phase
250	B	3	N/A			Extract air, EC-2 controller: Loss of supply phase Mains voltage lacking a phase
251	A	3	N/A	X	X	Supply air, EC-2 controller: No communication EC-2 not connected to bus in FanIO connector C. Fault in bus cable. Bus cable in EC-2 mounted in connector B instead of C
252	A	3	N/A	X	X	Extract air, EC-2 controller: No communication EC-2 not connected to bus in FanIO connector C. Fault in bus cable. Bus cable in EC-2 mounted in connector B instead of C
253	B	3	N/A			Temperature sensor (TTH): No communication Temperature sensor not connected to bus. Fault in bus cable
254	B	3	N/A			Temperature sensor (TTH): No communication Temperature sensor not connected to bus. Fault in bus cable
255	B	3	N/A			Supply airflow correction, temperature sensor error Supply airflow correction, temperature sensor error
256	B	10	N/A	X		Temperature sensor error: Supplementary sensor 1



Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						Temperature sensor error: Supplementary sensor 1
257	B	10	N/A	X		Temperature sensor error: Supplementary sensor 2
						Temperature sensor error: Supplementary sensor 2
258	B	10	N/A	X		Temperature sensor error: Supplementary sensor 3
						Temperature sensor error: Supplementary sensor 3
259	B	10	N/A	X		Temperature sensor error: Supplementary sensor 4
						Temperature sensor error: Supplementary sensor 4
260	B	3	N/A		X	Supply air motor control 1 has wrong type no. or defect
						Replace motor control 1
261	B	3	N/A		X	Supply air motor control 2 has wrong type no. or defect
						Replace motor control 2
262	B	3	N/A		X	Return/exhaust air motor control 1 has wrong type no. or defect
						Replace motor control 1
263	B	3	N/A		X	Return/exhaust air motor control 2 has wrong type no. or is defective
						Replace motor control 2
264	A	10	N/A	X	X	Room sensor (TTH-6040-W): No communication
						Room sensor (TTH-6040-W): No communication
265	B	10	N/A	X		Low oil level in DX/HP cooling compressor
						Low oil level in DX/HP cooling compressor
266	A	10	N/A	X		Manual fireman's stop
						Manual fireman's stop
267	B	10	N/A	X		Bypass smoke evacuation is active with external fan
						Bypass smoke evacuation is active with external fan
268	B	10	N/A	X		Room temperature from BMS is outside the range
						Room temperature from BMS system is outside the min/max range - the unit is using the extract air sensor
269	B	10	N/A	X		Outdoor air temperature from BMS is outside the range
						Outdoor air temperature from BMS system is outside the min/max range - the unit is using another installed room sensor
270	B	10	N/A	X		Smoke evacuation fan error: Motor will not start
						Smoke evacuation fan error: Motor will not start
271	B	10	N/A	X		Change outdoor air filter and reset timer for filter change
						The pre-defined time for filter change has expired - change filter and reset filter change timer
272	B	10	N/A	X		Change extract air filter and reset timer for filter change
						The pre-defined time for filter change has expired - change filter and reset filter change timer
273	B	10	N/A	X		Supply air frequency converter: Restricted output is active
						Supply air controller: Restricted output is active
274	B	10	N/A	X		Extract air frequency transformer: Restricted output is active
						Extract air controller: Restricted output is active
275	A	10	N/A	X		Supply air, FC-DC controller: Rotor blocked

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
						FC/DV motor is blocked
276	A	10	N/A	X		Extract air FC-DV controller: Rotor blocked
						FC/DV motor is blocked
277	A	3	N/A		X	Supply air, EC controller (OJ-EC): High output current (Ihi)
						Short-circuit in motor or cable, Motor blocked, Wrong motor type
278	A	3	N/A		X	Extract air, EC controller (OJ-EC): High output current (Ihi)
						Short-circuit in motor or cable, Motor blocked, Wrong motor type
279	A	3	N/A		X	Supply air, EC-2 controller (OJ-EC): High output current (Ihi)
						Short-circuit in motor or cable, Motor blocked, Wrong motor type
280	A	3	N/A		X	Extract air, EC-2 controller (OJ-EC): High output current (Ihi)
						Short-circuit in motor or cable, Motor blocked, Wrong motor type
281	B	3	N/A		X	Supply air fan stopped (Special SW/customer code)
						Supply air fan stopped (Special SW/customer code)
282	A	3	N/A	X	X	HMI-20T communication failure
						HMI-20T communication failure
289	B	3	N/A			Position of smoke evacuation damper not achieved
						Position of smoke evacuation damper not achieved
290	B	3	N/A			Position of bypass smoke evacuation damper not achieved
						Position of bypass smoke evacuation damper not achieved
291	A	3	N/A	X	X	Alarm PTH-6202-2 #1
						Alarm PTH-6202-2 #1
292	A	3	N/A	X	X	Alarm PTH-6202-2 #2
						Alarm PTH-6202-2 #2
293	A	3	N/A	X	X	Alarm PTH-6202-2 #3
						Alarm PTH-6202-2 #3
294	A	3	N/A	X	X	Alarm PTH-6202-2 #4
						Alarm PTH-6202-2 #4
295	A	3	N/A	X	X	Alarm PTH-6202-2 #5
						Alarm PTH-6202-2 #5
296	B	600	N/A			Supply air filter 2 - alarm
						Supply air filter 2 - alarm
297	B	600	N/A			Extract air filter 2 - alarm
						Extract air filter 2 - alarm
298	B	10	N/A	X		Supply air filter 2 - timer expiry alarm
						Supply air filter 2 - timer expiry alarm
299	B	10	N/A	X		Extract air filter 2 - timer expiry alarm
						Extract air filter 2 - timer expiry alarm

## 2.1.4 Alarm nos. 300-399

Alarm no.	Alarm type	Alarm delay, sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
300	B	30	N/A			Alarm from gas heating coil 1, overheating
						Alarm from gas heating coil 1, overheating
301	B	30	N/A			Alarm from gas heating coil 2, overheating
						Alarm from gas heating coil 2, overheating
302	B	30	N/A			Alarm from gas heating coil, preheating, overheating
						Alarm from gas heating coil, preheating, overheating
303	B	3	N/A	X		Zone Module no. 1 communication error
						Zone Module no. 1 communication error
304	B	3	N/A	X		Zone Module no. 2 communication error
						Zone Module no. 2 communication error
305	B	3	N/A	X		Zone Module no. 3 communication error
						Zone Module no. 3 communication error
306	B	3	N/A	X		Zone Module no. 4 communication error
						Zone Module no. 4 communication error
307	B	3	N/A	X		Zone 1 - at least one active alarm
						Zone 1 - at least one active alarm
308	B	3	N/A	X		Zone 2 - at least one active alarm
						Zone 2 - at least one active alarm
309	B	3	N/A	X		Zone 3 - at least one active alarm
						Zone 3 - at least one active alarm
310	B	3	N/A	X		Zone 4 - at least one active alarm
						Zone 4 - at least one active alarm
311	B	10	N/A	X		Temperature sensor error: Heat recovery sensor
						Temperature sensor error: Heat recovery sensor
312	B	3	N/A	X	X	CVM Mini Energy Analyzer: Communication failure
						CVM Mini Energy Analyzer: Communication failure
313	B	3	N/A	X	X	CVM Mini Cool Energy Analyzer: Communication failure
						CVM Mini Cool Energy Analyzer: Communication failure
314	A	3	N/A	X	X	Expansion module45 3: No communication
						OJ - Ext45 not connected to bus, fault in bus cable, address button is wrong
315	B	10	N/A	X		External outdoor sensor (TTH-6040-O): No communication
						External outdoor sensor (TTH-6040-O): No communication
316	A	10	N/A	X	X	Damper actuator Back-up fan (exhaust air): No communication
						Damper actuator not connected to bus. Fault in bus cable. Motor address must be set
317	B	10	N/A	X		Damper actuator Back-up fan (exhaust air), Unable to reach setpoint.
						Check whether damper is blocked
318	A	10	N/A	X	X	Damper actuator Back-up fan (supply air): No communication
						Damper actuator not connected to bus. Fault in bus cable. Motor address must be set

Alarm no.	Alarm type	Alarm delay. sec.	Alarm limit	Auto reset	Unit stop	Alarm text - WEB Alarm text - POP UP
319	B	10	N/A	X		Damper actuator Back-up fan (supply air): Unable to achieve setpoint
						Check whether damper is blocked
320	B	10	N/A	X		Common alarm from fan wall (Fan Wall) - Supply air
						Common alarm from fan wall (Fan Wall) - Supply air
321	B	10	N/A	X		Common alarm from fan wall (Fan Wall) - Extract air
						Common alarm from fan wall (Fan Wall) - Extract air
322	B	300	N/A	X		Alarm Auto Zero Leakage.
						Alarm Auto Zero Leakage.
323	A	10	N/A	X		Pressure transmitter #8 (PTH6202): No communication
						Pressure transmitter #8 (PTH6202): No communication
324	B	10	N/A	X		Increased use of extract air damper (Unstable regulation ALC)
						Increased use of extract air damper (Unstable regulation ALC)
325	B	10	N/A	X		Excessive outdoor air damper utilization
						Excessive outdoor air damper utilization
326	A	30	N/A		X	Supply backup air fan, alarm
						Supply backup air fan, alarm
327	A	30	N/A		X	Exhaust backup air fan, alarm
						Exhaust backup air fan, alarm
328	A	30	N/A		X	Temperature sensor fault: Extract air Heat pump
						Extract air Heat pump temp. sensor disconnected/short-circuited
333	A	10	N/A	X		The AHU operation is blocked
						The AHU operation is blocked
334	A	10	N/A		X	Fire thermostat in electric heating coil alarm
						Fire thermostat in electric heating coil alarm
335	A	10	N/A		X	Fire thermostat in electric pre-heating coil alarm
						Fire thermostat in electric pre-heating coil alarm









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