Geniox air handling units
Geniox 10 – 31, Geniox Core 10 – 20

Commissioning Record

GB

Document in original language | Version

systemair

Contents

A Commissioning record

Company:	
Responsible:	

Customer:	Date:
Installation/Project:	Installation address:
Object/Unit:	Model/Size:
Item no.:	Serial no:

Access Software version:	Operator password: 1111	Service password: 0612
	Operator password changed:	Service password changed:
Time and date set: ☐	Weekly program set: ☐	External connections (sensors, dampers, external alarm etc.) performed: ☐

B Notes and signatures

Signature:

Printed name: _____

Location: _____

Date: _____

Phone no.: _____

C Function settings

C.1 Airflow

Function	Default setting	Set value
Airflow		
Fan levels	☐ Normal ☐ Low-Normal ☐ Normal-High ☐ Low-Normal-High	☐ Normal ☐ Low-Normal ☐ Normal-High ☐ Low-Normal-High
Fan control type	☐ Pressure (VAV) ☐ Flow (CAV) ☐ Manual ☐ External ☐ Supply air pressure and extract air fan slave ☐ Supply air pressure with extract air flow slave ☐ Extract air pressure with supply air fan slave ☐ Extract air pressure with supply air flow slave	☐ Pressure (VAV) ☐ Flow (CAV) ☐ Manual ☐ External ☐ Supply air pressure and extract air fan slave ☐ Supply air pressure with extract air flow slave ☐ Extract air pressure with supply air fan slave ☐ Extract air pressure with supply air flow slave
Flow preference unit	☒ m^3/h ☐ l/s ☐ m^3/s ☐ CFM	☐ m^3/h ☐ l/s ☐ m^3/s ☐ CFM
Pressure preference unit	☒ Pa ☐ in wg (x100)	☐ Pa ☐ in wg (x100)
Air flow setpoints		
		Supply airflow at low speed _____ Extract airflow at low speed _____ Supply airflow at normal speed _____ Extract airflow at normal speed _____ Supply airflow at high speed _____ Extract airflow at high speed _____

Airflow readings	Output %	Flow	Pressure
Supply airflow at low speed			
Extract airflow at low speed			
Supply airflow at normal speed			
Extract airflow at normal speed			
Supply airflow at high speed			
Extract airflow at high speed			

Fan compensation curves (configuration)	Curve 1 □	Curve 2 □	Curve 3 □
Fan level	☐ All levels ☐ Low speed ☐ Normal speed ☐ High speed ☐ Low + Normal speed ☐ Normal + High speed	☐ All levels ☐ Low speed ☐ Normal speed ☐ High speed ☐ Low + Normal speed ☐ Normal + High speed	☐ All levels ☐ Low speed ☐ Normal speed ☐ High speed ☐ Low + Normal speed ☐ Normal + High speed
Mode	☐ All modes ☐ When defrosting	☐ All modes ☐ When defrosting	☐ All modes ☐ When defrosting
Fan	☐ Supply + Extract ☐ Supply ☐ Extract	☐ Supply + Extract ☐ Supply ☐ Extract	☐ Supply + Extract ☐ Supply ☐ Extract
Sensor	_____	_____	_____

Fan compensation curves (settings)	Sensor value	Compensation	Sensor value	Compensation	Sensor value	Compensation
Lowest sensor value	_____	_____	_____	_____	_____	_____
Middle sensor value	_____	_____	_____	_____	_____	_____
Highest sensor value	_____	_____	_____	_____	_____	_____

C.2 Temperature

Function	Default setting		Set value	
Temperature	☒ °C ☐ °F		☐ °C ☐ °F	
Summer/Winter mode	☒ No ☐ Yes		☐ No ☐ Yes	
	Winter	Summer	Winter	Summer
Supply air	18 °C	24 °C	_____ °	_____ °
Supply air outdoor compensated	☐ 4-point compensation curve		☐ 4-point compensation curve	
Room cascade	21 °C	24 °C	_____ °	_____ °
Extract air cascade	22 °C	24 °C	_____ °	_____ °
Room (summer) else supply air	☐ 4-point compensation curve	21 °C	☐ 4-point compensation curve	_____ °
Extract air (summer) else supply air	22 °C	☐ 4-point compensation curve	_____ °	☐ 4-point compensation curve
Room outdoor compensated	☐ 4-point compensation curve		☐ 4-point compensation curve	
Extract air outdoor compensated	☐ 4-point compensation curve		☐ 4-point compensation curve	
Extract air dependent supply air	-2 °C from extract air		_____ ° from extract air	
*If summer/winter mode switch is not selected, AHU will keep winter setpoints as default				
Type of switch to indicate Summer	□ Calendar From Date: _____ Month: _____ To Date: _____ Month: _____ □ Digital input □ Outdoor temp. > 13 °C		☐ Calendar From Date: _____ Month:_____ To Date: _____ Month:_____ ☐ Digital input ☐ Outdoor temp. >_____ °	

Function	Default setting	Set value
If outdoor comp. temp. control		
Outdoor temp/setpoint Curve point 1, 2, 3, 4:	-20 / 22 °C 5 / 20 °C 20 / 20 °C 30 / 22°C	_____° _____° _____° _____°
If cascade control:		
Min supply air temp. limit Max supply air temp. limit	15 °C 28 °C	_____° _____°
Cooling recovery		
Mode Start at temp. difference	☒ On ☐ Off 1 °C	☐ On ☐ Off _____°C
Cooling		
Type of cooler	☐ None ☐ Water ☐ DX	☐ Water ☐ DX
If water cooler		
Type of feedback, pump Pump stop delay	☒ None ☐ Alarm ☐ Run indication 5 min	☐ None ☐ Alarm ☐ Run indication _____ min
If DX cooler		
Reduction of min limit supply air temp. when DX cooling Control function cooling	0 °C ☐ 0-10 V ☐ Step controller	>_____°C ☐ 0-10 V ☐ Step controller
If step controller		
Type of step control Number of steps	☐ Sequential ☐ Binary ☐ 1 ☐ 2 ☐ 3 ☐ 4	☐ Sequential ☐ Binary ☐ 1 ☐ 2 ☐ 3 ☐ 4

Function	Default setting	Set value
Freeze protection		
Type of freeze protection	☐ None ☐ Temp. sensor ☐ Guard ☐ Temp. sensor + guard	☐ None ☐ Temp. sensor ☐ Guard ☐ Temp. sensor + guard
Alarm limit when unit is running	7 °C	_____°C
P-band when unit is running	5 °C	_____°C
Set point when unit is stopped	25 °C	_____°C
HW pump control		
Pump running mode	☒ Auto ☐ Always running	☐ Auto ☐ Always running
Type of feedback	☒ None ☐ Alarm ☐ Run indication	☐ None ☐ Alarm ☐ Run indication
Pump stop delay	5 min	_____ min
Pump running when outdoor temp. is below:	10 °C	_____°C
Hysteresis to allow pump stop	1 °C	_____°C

C.3 General

Function	Default setting	Set value
General		
Extended operation stop delay	0 min	_____
Warm start when outdoor temp. is below:	8°C	_____
CO_2 control	☐ No ☐ Fan start/stop ☐ Mixing damper function ☐ Fan start/stop + mixing damper	☐ No ☐ Fan start/stop ☐ Mixing damper function ☐ Fan start/stop + mixing damper
Supply air fan set point when CO_2 control	☐ Low ☐ Normal ☒ High	☐ Low ☐ Normal ☐ High
Extract air fan set point when CO_2 control	☐ Low ☐ Normal ☒ High	☐ Low ☐ Normal ☐ High
Start limit fan start/stop	1000 ppm	_____ ppm
Setpoint mixing damper	800 ppm	_____ ppm

Function	Default setting	Set value
Free cooling	☐ No ☐ Yes	☐ No ☐ Yes
Running when day outdoor temp. is above:	22 °C	_____ °C
Stop when night outdoor temp. is above:	18 °C	_____ °C
Stop when night outdoor temp. is below:	10 °C	_____ °C
Stop when room temp. is below:	18 °C	_____ °C
Free cooling start/stop hour	Start: 00:00 Stop: 07:00	Start:_____ Stop:_____
Time to block heat output after free cooling:	60 min	_____ min
Offset from normal speed when free cooling:	SAF: 0 EAF: 0	SAF:_____ EAF:_____
Support control	☒ No ☐ Yes	☐ No ☐ Yes
Start heating room temperature	15 °C	_____ °C
Stop heating room temperature	21 °C	_____ °C
Start cooling room temperature	30 °C	_____ °C
Stop cooling room temperature	28 °C	_____ °C
Pre-heater	☐ No ☐ Yes	☐ No ☐ Yes
Start pre-heating outdoor temperature	–15 °C	_____ °C
Stop filter drying if outdoor temperature	<0°C	_____ °C
Stop filter drying if outdoor temperature	>50°C	_____ °C
Stop filter drying if outdoor humidity	<65 %	_____ %

Function	Default setting	Set value
Exchanger defrosting mode	☐ None ☐ Temperature monitoring ☐ Pressure monitoring ☐ Sectional defrosting	☐ None ☐ Temperature monitoring ☐ Pressure monitoring ☐ Section defrosting
Temperature monitoring defrosting	☐ On ☐ Off	☐ On ☐ Off
Temperature sensor	☐ Exhaust air temperature ☐ Defrostning sensor	☐ Exhaust air temperature ☐ Defrosting sensor
Temperature min limit	-3°C	_____ °C
Stop supply air fan if outdoor temp	<–25°C	_____ °C
Hysteresis to end defrosting	-4°C	_____ °C
Pressure monitoring defrosting	☐ On ☐ Off	☐ On ☐ Off
Stop defrosting	☒ On ☐ Off	☐ On ☐ Off
Outdoor temp. to allow defrosting	0 °C	_____ °C
Outdoor temp. for stop of supply air fan	–10 °C	_____ °C
Max deviation exchanger pressure to start defrosting	25 %	_____ %
Pressure hysteresis to end defrosting	60 %	_____ %
Sectional defrosting	☐ On ☐ Off	☐ On ☐ Off
Temperature sensor	☐ Exhaust air temperature ☐ Defrostning sensor	☐ Exhaust air temperature ☐ Defrosting sensor
Allow fan stop defrosting if exchanger pressure > max limit	☒ Yes ☐ No	☐ Yes ☐ No
Max allowed deviation exchanger pressure when defrosting	150%	_____ %
Max deviation exchanger pressure to start defrosting	25%	_____ %
Pressure hysteresis to end defrosting	60%	_____ %
Setpoint temperature min limit	–4°C	_____ °C
Temperature hysteresis to end defrosting	4°C	_____ °C
Calibration extract air flow	_____	_____
Calibration exchanger pressure	_____	_____

Function	Default setting	Default value
Fire function	☐ No ☐ Fire ☐ Smoke ☐ Fire + smoke	☐ No ☐ Fire ☐ Smoke ☐ Fire + smoke
Operation mode when fire alarm	☒ Stopped ☐ Continuous run ☐ Only supply air fan ☐ Only extract air fan ☐ Running via normal start/stop conditions	☐ Stopped ☐ Continuous run ☐ Only supply air fan ☐ Only extract air fan ☐ Running via normal start/stop conditions
Supply air fan setpoint type	☒ Auto ☐ Low ☐ Normal ☐ High ☐ Manual output _____-__ % ☐ Manual setpoint _____-__	☐ Auto ☐ Low ☐ Normal ☐ High ☐ Manual output _____% ☐ Manual setpoint _____
Extract air fan setpoint type	☒ Auto ☐ Low ☐ Normal ☐ High ☐ Manual output _____-__ % ☐ Manual setpoint _____-__	☐ Auto ☐ Low ☐ Normal ☐ High ☐ Manual output _____% ☐ Manual setpoint _____
Outdoor air damper function when fire alarm	☒ Normal (follow the fan) ☐ Open ☐ Closed	☐ Normal (follow the fan) ☐ Open ☐ Closed
Exhaust air damper function when fire alarm	☒ Normal (follow the fan) ☐ Open ☐ Closed	☐ Normal (follow the fan) ☐ Open ☐ Closed
Fire damper function	☒ Not active ☐ Open ☐ Closed	☐ Not active ☐ Open ☐ Closed

D Setting the weekly program

Factory setting of the fan speed are:

- High fan speed 00:00 to 00:00 Monday to Sunday and Holiday.
- Normal fan speed 07:00 to 17:00 Monday to Friday, 00:00 to 00:00 Saturday to Sunday and Holiday.
- Low fan speed 00:00 to 00:00 Monday to Sunday and Holiday.
- Settings of 00:00 to 00:00 stops the unit. E.g. changing low fan speed setting from 00:00-24:00 to 00:00-00:00 will stop the unit outside the time of normal fan speed.

Note:

High fan speed has priority over normal fan speed which has priority over low fan speed.

Weekday	Period	Low fan speed	Normal fan speed	High fan speed
Monday	1	–	–	–
	2	–	–	–
Tuesday	1	–	–	–
	2	–	–	–
Wednesday	1	–	–	–
	2	–	–	–
Thursday	1	–	–	–
	2	–	–	–
Friday	1	–	–	–
	2	–	–	–
Saturday	1	–	–	–
	2	–	–	–
Sunday	1	–	–	–
	2	–	–	–

Holiday (month. day)		Holiday (month. day)		Holiday (month. day)	
1.	–	9.	–	17.	–
2.	–	10.	–	18.	–
3.	–	11.	–	19.	–
4.	–	12.	–	20.	–
5.	–	13.	–	21.	–
6.	–	14.	–	22.	–
7.	–	15.	–	23.	–
8.	–	16.	–	24.	–

E I/O Allocation

Note any changes from the factory default input and output allocation configuration. Fill in any related information in the comment field. E.g. a pressure sensors measuring range, a contact's polarity or similar.

Note:

Make notes of any additional connected accessories or external signals in the air handling unit's wiring diagram!

Digital outputs	Function	Comment
DO1		
DO2		
DO3		
DO4		
DO5		
DO6		
DO7		
DO8		
Analog outputs	**Function**	**Comment**
AO1		
AO2		
AO3		
AO4		
AO5		
AO6		
Digital inputs	**Function**	**Comment**
DI1		
DI2		
DI3		
DI4		
DI5		
DI6		
DI7		
DI8		
DI9		
DI10		
DI11		
DI12		

Analog inputs	Function	Comment
AI1		
AI2		
AI3		
AI4		
AI5		
AI6		
AI7		
AI8		
AI9		
SA DPT	**Function**	**Comment**
Pressure 1		
Pressure 2		
UI1		
UI2		
EA DPT	**Function**	**Comment**
Pressure 1		
Pressure 2		
UI1		
UI2		
Universal inputs	**Function**	**Comment**
UI1		
UI2		
UI3		
UI4		

F Alarm configuration

Alarm settings	Def. settings	Set value
Alarm number: Alarm name: Action: Level: Delay:	1 Malfunction supply air fan 1 Normal stop A 300 s	
Alarm number: Alarm name: Action: Level: Delay:	2 Malfunction supply air fan 2 Normal stop A 300 s	
Alarm number: Alarm name: Action: Level: Delay:	3 Malfunction supply air fan 3 Normal stop A 300 s	
Alarm number: Alarm name: Action: Level: Delay:	4 Malfunction supply air fan 4 Normal stop A 300 s	
Alarm number: Alarm name: Action: Level: Delay:	5 Malfunction supply air fan 5 Normal stop A 300 s	
Alarm number: Alarm name: Action: Level: Delay:	6 Malfunction extract air fan 1 Normal stop A 300 s	

Alarm settings	Def. settings	Set value
Alarm number:	7	
Alarm name:	Malfunction extract air fan 2	
Action:	Normal stop	
Level:	A	
Delay:	300 s	
Alarm number:	8	
Alarm name:	Malfunction extract air fan 3	
Action:	Normal stop	
Level:	A	
Delay:	300 s	
Alarm number:	9	
Alarm name:	Malfunction extract air fan 4	
Action:	Normal stop	
Level:	A	
Delay:	300 s	
Alarm number:	10	
Alarm name:	Malfunction extract air fan 5	
Action:	Normal stop	
Level:	A	
Delay:	300 s	
Alarm number:	11	
Alarm name:	Alarm supply air fan 1	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	12	
Alarm name:	Alarm supply air fan 2	
Action:	Normal stop	
Level:	A	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number:	13	
Alarm name:	Alarm supply air fan 3	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	14	
Alarm name:	Alarm supply air fan 4	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	15	
Alarm name:	Alarm supply air fan 5	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	16	
Alarm name:	Alarm extract air fan 1	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	17	
Alarm name:	Alarm extract air fan 2	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	18	
Alarm name:	Alarm extract air fan 3	
Action:	Normal stop	
Level:	A	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number:	19	
Alarm name:	Alarm extract air fan 4	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	20	
Alarm name:	Alarm extract air fan 5	
Action:	Normal stop	
Level:	A	
Delay:	0 s	
Alarm number:	21	
Alarm name:	Warning supply air fan 1	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number:	22	
Alarm name:	Warning supply air fan 2	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number:	23	
Alarm name:	Warning supply air fan 3	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	24	
Alarm name	Warning supply air fan 4	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	25	
Alarm name	Warning supply air fan 5	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	26	
Alarm name	Warning extract air fan 1	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	27	
Alarm name	Warning extract air fan 2	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	28	
Alarm name	Warning extract air fan 3	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	29	
Alarm name	Warning extract air fan 4	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	30	
Alarm name	Warning extract air fan 5	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	31	
Alarm name	External operation supply air fan	
Action:	No action	
Level:	C	
Delay:	120 s	
Alarm number	32	
Alarm name	External operation extract air fan	
Action:	No action	
Level:	C	
Delay:	120 s	
Alarm number	33	
Alarm name	Extra fan motor 1 running	
Action:	No action	
Level:	C	
Delay:	120 s	
Alarm number	34	
Alarm name	Extra fan motor 2 running	
Action:	No action	
Level:	C	
Delay:	120 s	
Alarm number	35	
Alarm name	Malfunction pump heater	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	36	
Alarm name	Malfunction pump cooler	
Action:	No action	
Level:	C	
Delay:	60 s	

Alarm settings	Def. settings	Set value
Alarm number	37	
Alarm name	Malfunction pump exchanger	
Action:	No action	
Level:	C	
Delay:	20 s	
Alarm number	38	
Alarm name	Malfunction fire damper	
Action:	Normal stop	
Level:	A	
Delay:	90 s	
Alarm number	39	
Alarm name	Malfunction damper	
Action:	Normal stop	
Level:	C	
Delay:	90 s	
Alarm number	40	
Alarm name	Malfunction extra fan motor 1	
Action:	No action	
Level:	C	
Delay:	120 s	
Alarm number	41	
Alarm name	Malfunction extra fan motor 2	
Action:	No action	
Level:	C	
Delay:	120 s	
Alarm number	42	
Alarm name	Testing fire damper	
Action:	Normal stop	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	43	
Alarm name	Malfunction heating (SEQ-A)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	44	
Alarm name	Malfunction exchanger (SEQ-B)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	45	
Alarm name	Malfunction cooling (SEQ-C)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	46	
Alarm name	Malfunction recirculation 1 (SEQ-D)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	47	
Alarm name	Malfunction recirculation 2 (SEQ-E)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	48	
Alarm name	Malfunction fan setpoint comp (SEQ-F)	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	49	
Alarm name	Malfunction heating 2 (SEQ-H)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	50	
Alarm name	Malfunction cooling 2 (SEQ-H)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	51	
Alarm name	Malfunction exchanger extract (SEQ-I)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	52	
Alarm name	Malfunction external heating/cooling (SEQ-J)	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	53	
Alarm name	Filter alarm supply air	
Action:	No action	
Level:	B	
Delay:	300 s	
Limit:		

Alarm settings	Def. settings	Set value
Alarm number	54	
Alarm name	Filter alarm extract air	
Action:	No action	
Level:	B	
Delay:	300 s	
Limit:		
Alarm number	55	
Alarm name	Alarm low air flow	
Action:	Normal stop	
Level:	A	
Delay:	30 s	
Alarm number	56	
Alarm name	Freeze protection guard	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	57	
Alarm name	Defrosting guard exchanger	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	58	
Alarm name	Fire alarm	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	59	
Alarm name	Smoke alarm	
Action:	Fast stop	
Level:	A	
Delay:	1 s	

Alarm settings	Def. settings	Set value
Alarm number	60	
Alarm name	External stop	
Action:	Normal stop	
Level:	C	
Delay:	1 s	
Alarm number	61	
Alarm name	External alarm	
Action:	No action	
Level:	B	
Delay:	1 s	
Alarm number	62	
Alarm name	Service stop	
Action:	Normal stop	
Level:	C	
Delay:	1 s	
Alarm number	63	
Alarm name	Electric heater is overheated	
Action:	Normal stop	
Level:	A	
Delay:	1 s	
Alarm number	64	
Alarm name	Warning freeze protection	
Action:	No action	
Level:	B	
Delay:	0 s	
Alarm number	65	
Alarm name	Low efficiency exchanger	
Action:	No action	
Level:	B	
Delay:	30 m	
Limit:	50%	

Alarm settings	Def. settings	Set value
Alarm number	66	
Alarm name	Defrosting alarm	
Action:	Normal stop	
Level:	A	
Delay:	1 s	
Alarm number	67	
Alarm name	Rotary exchanger alarm	
Action:	No action	
Level:	B	
Delay:	30 s	
Alarm number	68	
Alarm name	Extra alarm 1	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	69	
Alarm name	Extra alarm 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	70	
Alarm name	Extra alarm 3	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	71	
Alarm name	Extra alarm 4	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	72	
Alarm name	Extra alarm 5	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	73	
Alarm name	Extra alarm 6	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	74	
Alarm name	Extra alarm 7	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	75	
Alarm name	Extra alarm 8	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	76	
Alarm name	Extra alarm 9	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	77	
Alarm name	Extra alarm 10	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	78	
Alarm name	Internal battery error	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	79	
Alarm name	Alarm service interval	
Action:	No action	
Level:	C	
Delay:	1 s	
Alarm number	80	
Alarm name	Restart blocked after power on	
Action:	Fast stop	
Level:	C	
Delay:	0 s	
Alarm number	81	
Alarm name	Deviation alarm supply air temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	5°C	
Alarm number	82	
Alarm name	Deviation alarm supply air fan	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	50 Pa	

Alarm settings	Def. settings	Set value
Alarm number	83	
Alarm name	Deviation alarm extract air fan	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	50 Pa	
Alarm number	84	
Alarm name	Deviation alarm humidity control	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10%	
Alarm number	85	
Alarm name	Deviation alarm extra controller	
Action:	Fast stop	
Level:	-	
Delay:	0 s	
Limit:	10°C	
Alarm number	86	
Alarm name	High supply air temperature	
Action:	Normal stop	
Level:	A	
Delay:	300 s	
Limit:	35°C	
Alarm number	87	
Alarm name	Low supply air temperature	
Action:	Normal stop	
Level:	A	
Delay:	300 s	
Limit:	10°C	

Alarm settings	Def. settings	Set value
Alarm number	88	
Alarm name	Supply air temperature max limit	
Action:	No action	
Level:	-	
Delay:	300 s	
Alarm number	89	
Alarm name	Supply air temperature min limit	
Action:	No action	
Level:	-	
Delay:	300 s	
Alarm number	90	
Alarm name	High room temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	
Alarm number	91	
Alarm name	Low room temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	
Alarm number	92	
Alarm name	High extract air temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	

Alarm settings	Def. settings	Set value
Alarm number	93	
Alarm name	Low extract air temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	
Alarm number	94	
Alarm name	High outdoor air temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	40°C	
Alarm number	95	
Alarm name	Low outdoor air temperature	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	–30°C	
Alarm number	96	
Alarm name	Freeze protection alarm 1	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	97	
Alarm name	Freeze protection alarm 2	
Action:	Fast stop	
Level:	A	
Delay:	1 s	

Alarm settings	Def. settings	Set value
Alarm number	98	
Alarm name	Freeze protection alarm 3	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	99	
Alarm name	High temperature extra sensor 1	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	
Alarm number	100	
Alarm name	Low temperature extra sensor 1	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	
Alarm number	101	
Alarm name	High temperature extra sensor 2	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	
Alarm number	102	
Alarm name	Low temperature extra sensor 2	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	

Alarm settings	Def. settings	Set value
Alarm number	103	
Alarm name	High temperature extra sensor 3	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	
Alarm number	104	
Alarm name	Low temperature extra sensor 3	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	
Alarm number	105	
Alarm name	High temperature extra sensor 4	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	
Alarm number	106	
Alarm name	Low temperature extra sensor 4	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	
Alarm number	107	
Alarm name	High temperature extra sensor 5	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	30°C	

Alarm settings	Def. settings	Set value
Alarm number	108	
Alarm name	Low temperature extra sensor 5	
Action:	No action	
Level:	-	
Delay:	30 m	
Limit:	10°C	
Alarm number	109	
Alarm name	High temperature selected sensor 1	
Action:	No action	
Level:	-	
Delay:	0 m	
Limit:	0°C	
Alarm number	110	
Alarm name	Low temperature selected sensor 1	
Action:	No action	
Level:	-	
Delay:	0 m	
Limit:	0°C	
Alarm number	111	
Alarm name	High temperature selected sensor 1	
Action:	No action	
Level:	-	
Delay:	0 m	
Limit:	0°C	
Alarm number	112	
Alarm name	Low temperature selected sensor 2	
Action:	No action	
Level:	-	
Delay:	0 m	
Limit:	0°C	

Alarm settings	Def. settings	Set value
Alarm number	113	
Alarm name	Manual operation air handling unit	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	114	
Alarm name	Manual operation supply air	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	115	
Alarm name	Manual operation supply air fan	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	116	
Alarm name	Manual operation extract air fan	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	117	
Alarm name	Manual operation heater	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	118	
Alarm name	Manual operation exchanger	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	119	
Alarm name	Manual operation cooler	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	120	
Alarm name	Manual operation damper	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	121	
Alarm name	Manual operation pump heater	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	122	
Alarm name	Manual operation pump exchanger	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	123	
Alarm name	Manual operation pump cooler	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	124	
Alarm name	Manual operation damper recirculation	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	125	
Alarm name	Manual operation damper outdoor air	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	126	
Alarm name	Manual operation damper exhaust air	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	127	
Alarm name	Manual operation fire damper	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	128	
Alarm name	Manual control heating (SEQ-A)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	129	
Alarm name	Manual control exchanger (SEQ-B)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	130	
Alarm name	Manual control cooling (SEQ-C)	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	131	
Alarm name	Manual control recirculation 1 (SEQ-D)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	132	
Alarm name	Manual control recirculation 2 (SEQ-E)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	133	
Alarm name	Manual control fan setpoint comp (SEQ-F)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	134	
Alarm name	Manual control heating 2 (SEQ-G)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	135	
Alarm name	Manual control cooling 2 (SEQ-H)	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	136	
Alarm name	Manual control exchanger extract (SEQ-I)	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	137	
Alarm name	Manual control external heating/cooling	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	138	
Alarm name	Output in manual operation	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	139	
Alarm name	Input in manual operation	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	140	
Alarm name	Manual operation extra controller	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	141	
Alarm name	Manual operation external fan motor 1	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	142	
Alarm name	Manual operation external fan motor 2	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	143	
Alarm name	Manual operation pretreatment	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	144	
Alarm name	Sensor error outdoor air temperature	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	145	
Alarm name	Sensor error intake air temperature	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	146	
Alarm name	Sensor error supply air temperature	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	147	
Alarm name	Sensor error exhaust air temperature	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	148	
Alarm name	Sensor error extract air temperature	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	149	
Alarm name	Sensor error room temperature 1	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	150	
Alarm name	Sensor error room temperature 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	151	
Alarm name	Sensor error room temperature 3	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	152	
Alarm name	Sensor error room temperature 4	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	153	
Alarm name	Sensor error pressure supply air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	154	
Alarm name	Sensor error pressure extract air	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	155	
Alarm name	Sensor error flow supply air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	156	
Alarm name	Sensor error flow extract air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	157	
Alarm name	Sensor error flow exchanger supply air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	158	
Alarm name	Sensor error room temperature 4	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	159	
Alarm name	Sensor error defrosting temperature	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	160	
Alarm name	Sensor error freeze protection temperature 1	
Action:	Fast stop	
Level:	A	
Delay:	1 s	

Alarm settings	Def. settings	Set value
Alarm number	161	
Alarm name	Sensor error freeze protection temperature 2	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	162	
Alarm name	Sensor error freeze protection temperature 3	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	163	
Alarm name	Sensor error CO2 room/extract air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	164	
Alarm name	Sensor error humidity room/extract air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	165	
Alarm name	Sensor error humidity supply air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	166	
Alarm name	Sensor error humidity outdoor	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	167	
Alarm name	Sensor error extra controller	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	168	
Alarm name	Signal error external control supply air fan	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	169	
Alarm name	Signal error external control extract air fan	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	170	
Alarm name	Sensor error extra sensor 1	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	171	
Alarm name	Sensor error extra sensor 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	172	
Alarm name	Sensor error extra sensor 3	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	173	
Alarm name	Sensor error extra sensor 4	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	174	
Alarm name	Sensor error extra sensor 5	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	175	
Alarm name	Sensor error external temperature setpoint	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	176	
Alarm name	Signal error external flow setpoint	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	177	
Alarm name	Sensor error pressure filter supply air	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	178	
Alarm name	Sensor error pressure filter extract air	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	179	
Alarm name	Sensor error efficiency temperature exchanger	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	180	
Alarm name	Communication fault device	
Action:	No action	
Level:	C	
Delay:	1 s	
Alarm number	181	
Alarm name	Malfunction extra controller	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	182	
Alarm name	Internal error	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	183	
Alarm name	Service alarm smoke detector	
Action:	No action	
Level:	B	
Delay:	120 s	
Alarm number	184	
Alarm name	Sensor error smoke detector	
Action:	Normal stop	
Level:	A	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	185	
Alarm name	Malfunction preheater	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	186	
Alarm name	Communication fault BMS master	
Action:	No action	
Level:	C	
Delay:	1 s	
Alarm number	187	
Alarm name	Leakage heater valve	
Action:	No action	
Level:	B	
Delay:	5 m	
Alarm number	188	
Alarm name	Sensor error preheater temperature	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	189	
Alarm name	Malfunction supply air fan 6	
Action:	No action	
Level:	B	
Delay:	120 s	
Alarm number	190	
Alarm name	Malfunction supply air fan 7	
Action:	No action	
Level:	B	
Delay:	120 s	

Alarm settings	Def. settings	Set value
Alarm number	191	
Alarm name	Malfunction supply air fan 8	
Action:	No action	
Level:	B	
Delay:	120 s	
Alarm number	192	
Alarm name	Malfunction extract air fan 6	
Action:	No action	
Level:	B	
Delay:	120 s	
Alarm number	193	
Alarm name	Malfunction extract air fan 7	
Action:	No action	
Level:	B	
Delay:	120 s	
Alarm number	194	
Alarm name	Malfunction extract air fan 8	
Action:	No action	
Level:	B	
Delay:	120 s	
Alarm number	195	
Alarm name	Alarm supply air fan 6	
Action:	No action	
Level:	A	
Delay:	0 s	
Alarm number	196	
Alarm name	Alarm supply air fan 7	
Action:	No action	
Level:	A	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	197	
Alarm name	Alarm supply air fan 8	
Action:	No action	
Level:	A	
Delay:	0 s	
Alarm number	198	
Alarm name	Alarm extract air fan 6	
Action:	No action	
Level:	A	
Delay:	0 s	
Alarm number	199	
Alarm name	Alarm extract air fan 7	
Action:	No action	
Level:	A	
Delay:	0 s	
Alarm number	200	
Alarm name	Alarm extract air fan 8	
Action:	No action	
Level:	A	
Delay:	0 s	
Alarm number	201	
Alarm name	Warning supply air fan 6	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	202	
Alarm name	Warning supply air fan 7	
Action:	No action	
Level:	C	
Delay:	0 s	

Alarm settings	Def. settings	Set value
Alarm number	203	
Alarm name	Warning supply air fan 8	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	204	
Alarm name	Warning extract air fan 6	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	205	
Alarm name	Warning extract air fan 7	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	206	
Alarm name	Warning extract air fan 8	
Action:	No action	
Level:	C	
Delay:	0 s	
Alarm number	207	
Alarm name	Malfunction heating zone 1	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	208	
Alarm name	Malfunction heating zone 2	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	209	
Alarm name	Malfunction heating zone 3	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	210	
Alarm name	Malfunction cooling zone 1	
Action:	No action	
Level:	B	
Delay:	0 s	
Alarm number	211	
Alarm name	Malfunction cooling zone 2	
Action:	No action	
Level:	B	
Delay:	0 s	
Alarm number	212	
Alarm name	Malfunction cooling zone 3	
Action:	No action	
Level:	B	
Delay:	0 s	
Alarm number	213	
Alarm name	Deviation alarm supply temp zone 1	
Action:	No action	
Level:	B	
Delay:	30 m	
Limit:	10°C	

Alarm settings	Def. settings	Set value
Alarm number	214	
Alarm name	Deviation alarm supply temp zone 2	
Action:	No action	
Level:	B	
Delay:	30 m	
Limit:	10°C	
Alarm number	215	
Alarm name	Deviation alarm supply temp zone 3	
Action:	No action	
Level:	B	
Delay:	30 m	
Limit:	10°C	
Alarm number	216	
Alarm name	Freeze protection alarm zone 1	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	217	
Alarm name	Freeze protection alarm zone 2	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	218	
Alarm name	Freeze protection alarm zone 3	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	219	
Alarm name	Electric heater is overheated zone 1	
Action:	Normal stop	
Level:	A	
Delay:	1 s	

Alarm settings	Def. settings	Set value
Alarm number	220	
Alarm name	Electric heater is overheated zone 2	
Action:	Normal stop	
Level:	A	
Delay:	1 s	
Alarm number	221	
Alarm name	Electric heater is overheated zone 3	
Action:	Normal stop	
Level:	A	
Delay:	1 s	
Alarm number	222	
Alarm name	Sensor error supply air temp zone 1	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	223	
Alarm name	Sensor error supply air temp zone 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	224	
Alarm name	Sensor error supply air temp zone 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	225	
Alarm name	Sensor error room temp zone 1	
Action:	No action	
Level:	B	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	226	
Alarm name	Sensor error room temp zone 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	227	
Alarm name	Sensor error room temp zone 3	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	228	
Alarm name	Sensor error extract temp zone 1	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	229	
Alarm name	Sensor error extract temp zone 2	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	230	
Alarm name	Sensor error extract temp zone 3	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	231	
Alarm name	Sensor error freeze protection zone 1	
Action:	Fast stop	
Level:	A	
Delay:	1 s	

Alarm settings	Def. settings	Set value
Alarm number	232	
Alarm name	Sensor error freeze protection zone 2	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	233	
Alarm name	Sensor error freeze protection zone 3	
Action:	Fast stop	
Level:	A	
Delay:	1 s	
Alarm number	234	
Alarm name	Signal error feedback cooler valve	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	235	
Alarm name	Signal error feedback outdoor air damper	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	236	
Alarm name	Signal error feedback recirc. damper	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	237	
Alarm name	Device warning	
Action:	No action	
Level:	C	
Delay:	5 s	

Alarm settings	Def. settings	Set value
Alarm number	238	
Alarm name	Device alarm	
Action:	No action	
Level:	B	
Delay:	5 s	
Alarm number	239	
Alarm name	High pressure EATR	
Action:	Fast stop	
Level:	A	
Delay:	0 s	
Limit:	100 Pa	
Alarm number	240	
Alarm name	Sensor error pressure EATR	
Action:	No action	
Level:	B	
Delay:	5 s	

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