



Flexibox 460 / 810




Quick setup guide

Rev. 1.1

Dantherm[®]
CONTROL YOUR CLIMATE

Warnings

This installation manual and the product use various displays and labels to ensure safe use. Ignoring these displays and labels and incorrectly using the product could have results as classified below. Please read the following warning symbol information before reading the rest of this section, and be sure to strictly observe all instructions.

 Warning	Not following these instructions could result in death or serious injury
 Caution	Not following these instructions could result in injury or property damage.
	The symbol means something that should NOT be done

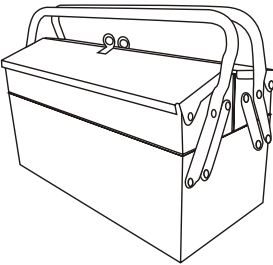
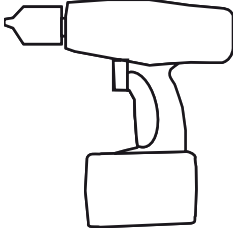
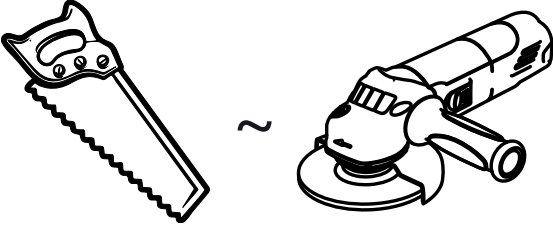


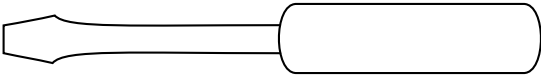
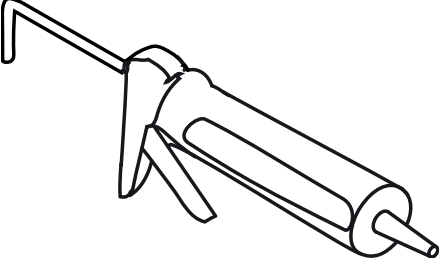
Project safety is your responsibility!

Follow the instructions in this manual regarding the installation method and installation orientation. Not following these instructions could result in injury, death, or damage to equipment. All work should be performed by qualified personal using safe work practices. All proper personal protective equipment should be used. PPE required for this installation includes but is not limited to:

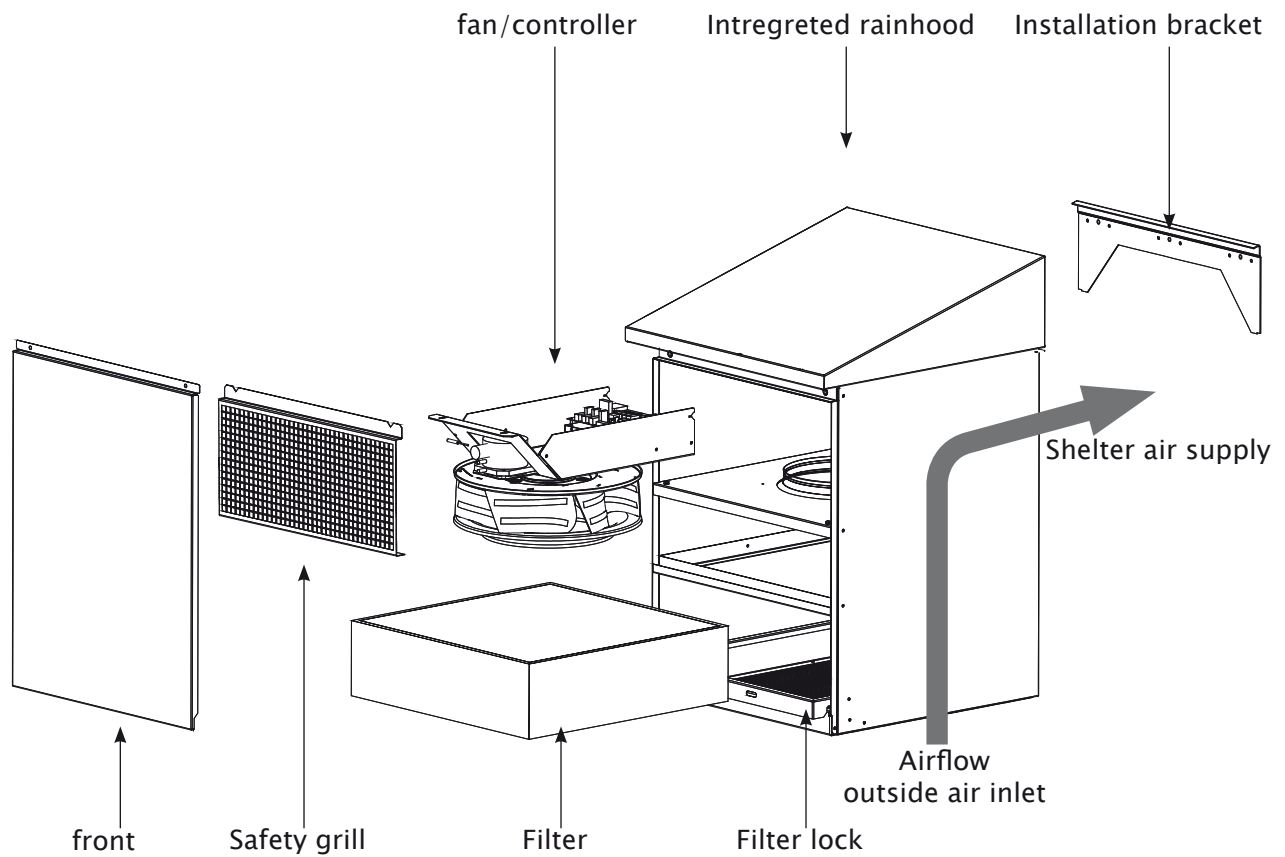
- Safety glasses
- Hard hat
- Safety shoes
- Hearing protection
- Cut resistant gloves
- Face shield
- Proper work attire (long sleeve shirt and long pants)

Please strictly observe the following: Special Skill is required to install the Dantherm Flexibox units. Non-qualified personnel should not attempt any of the actions shown in this installation guide. Dantherm shall not be responsible for improper installation or any accidents, damage, or injury resulting from improper installation.

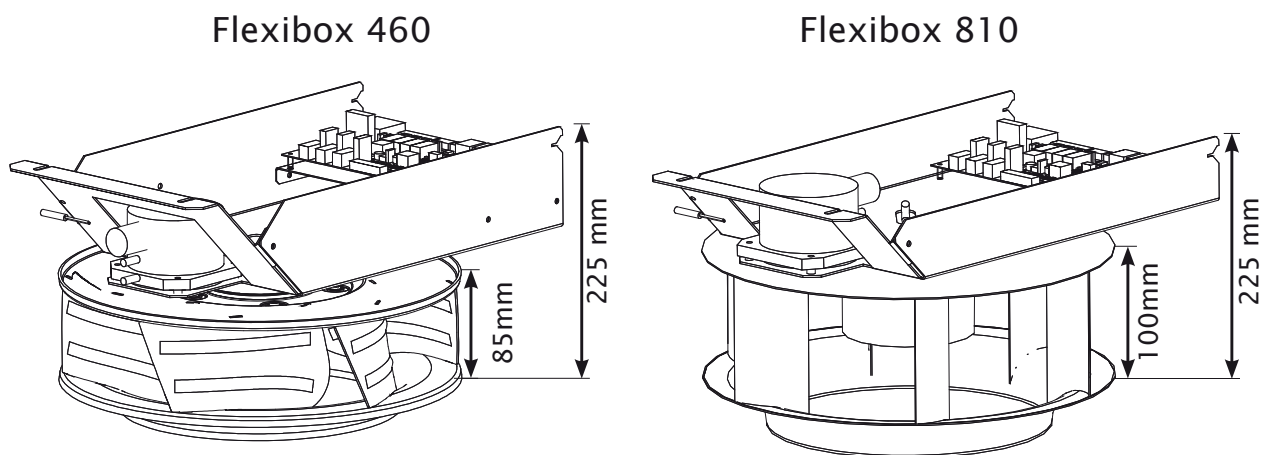
Tools needed

	1x	
	1x	
	1x	 5 mm
	2x	 8 mm 4 mm
	1x	2 mm 
	1x	

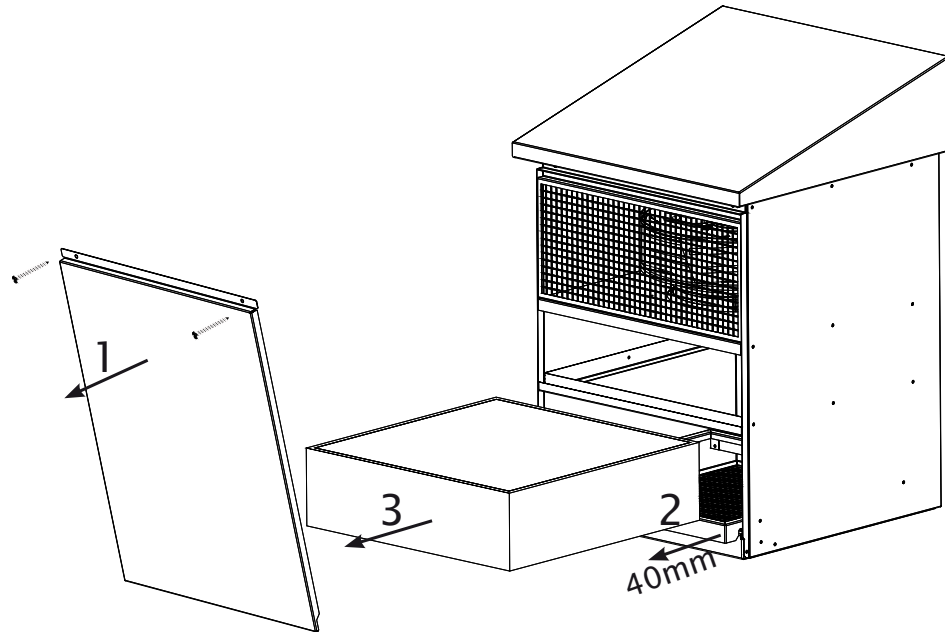
Product overview
Exploded



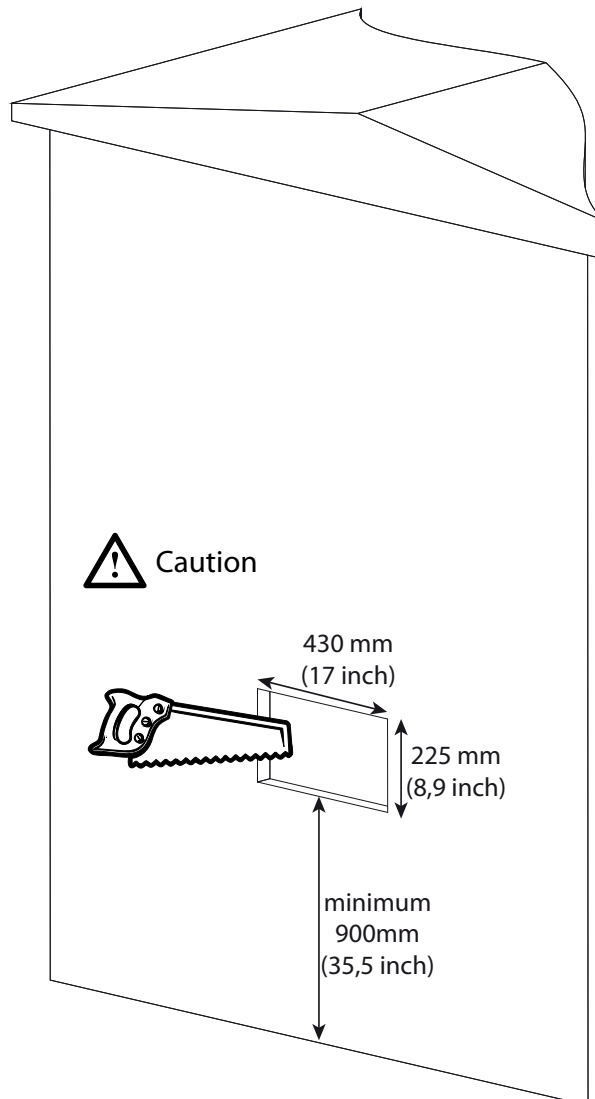
460 versus 810



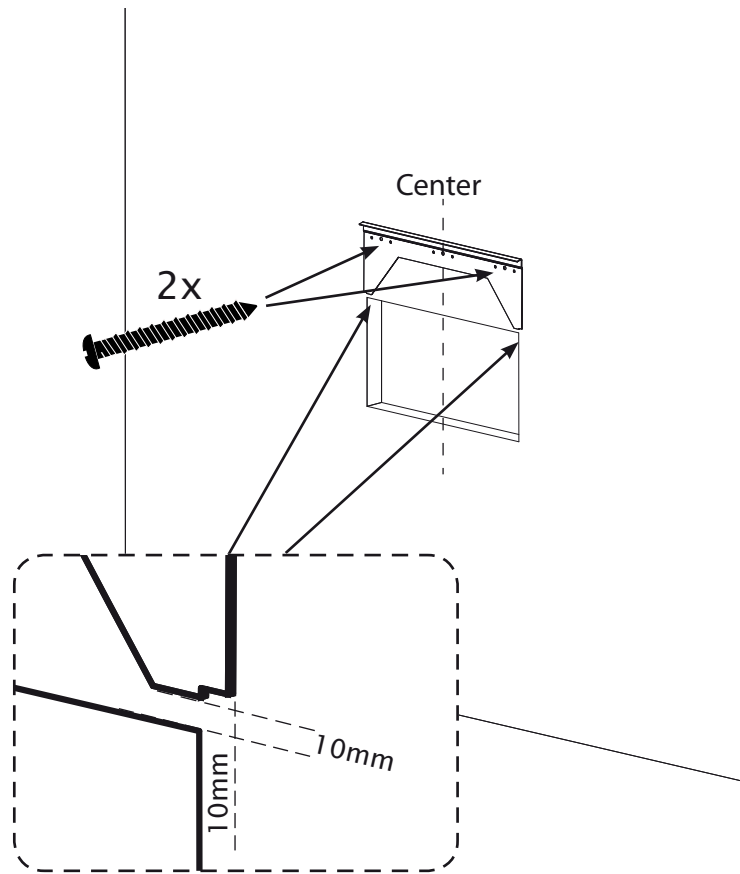
Prepare unit



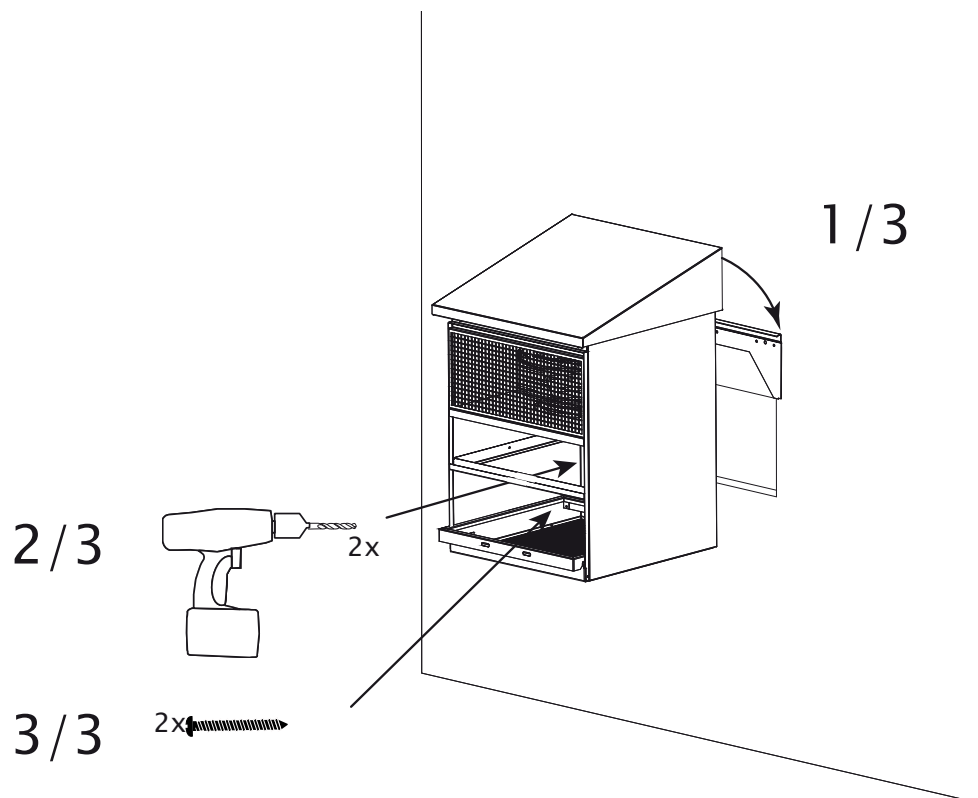
Cut hole



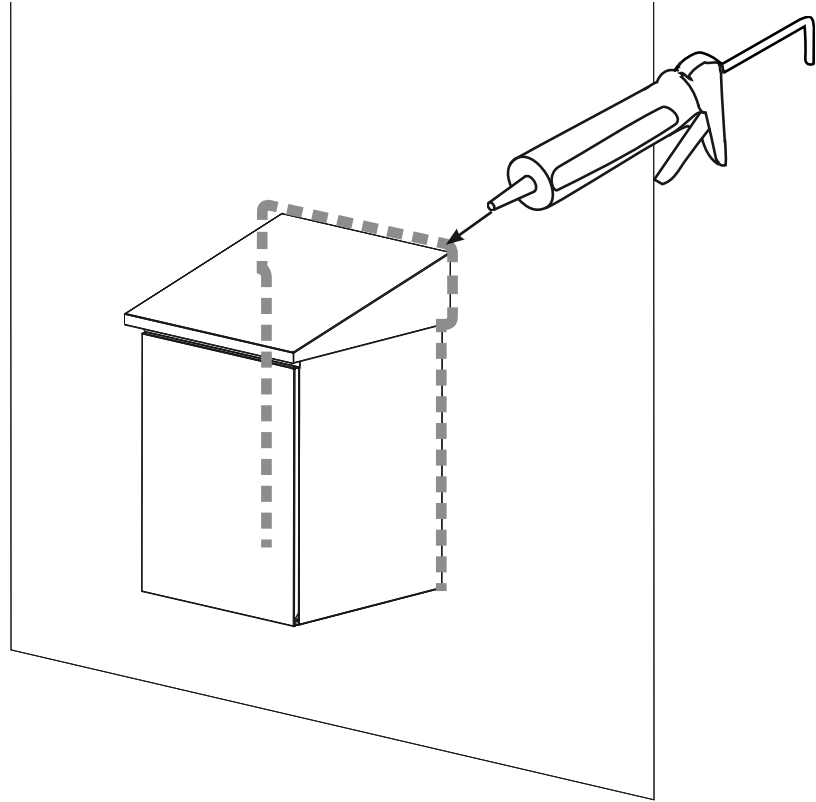
Mount bracket



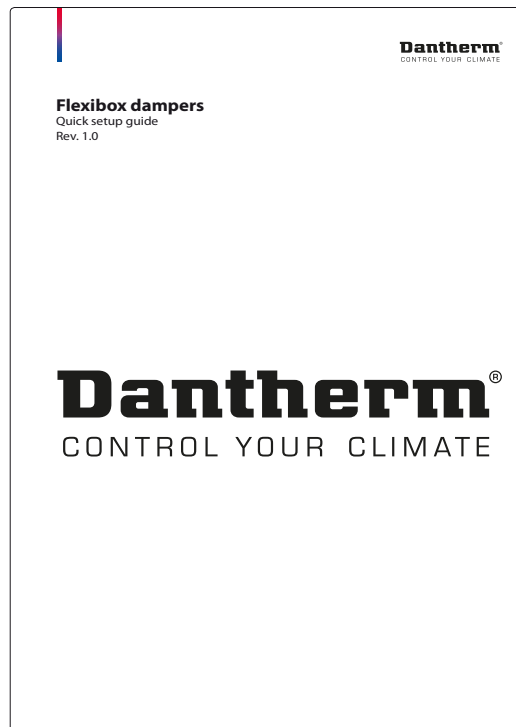
Mount unit



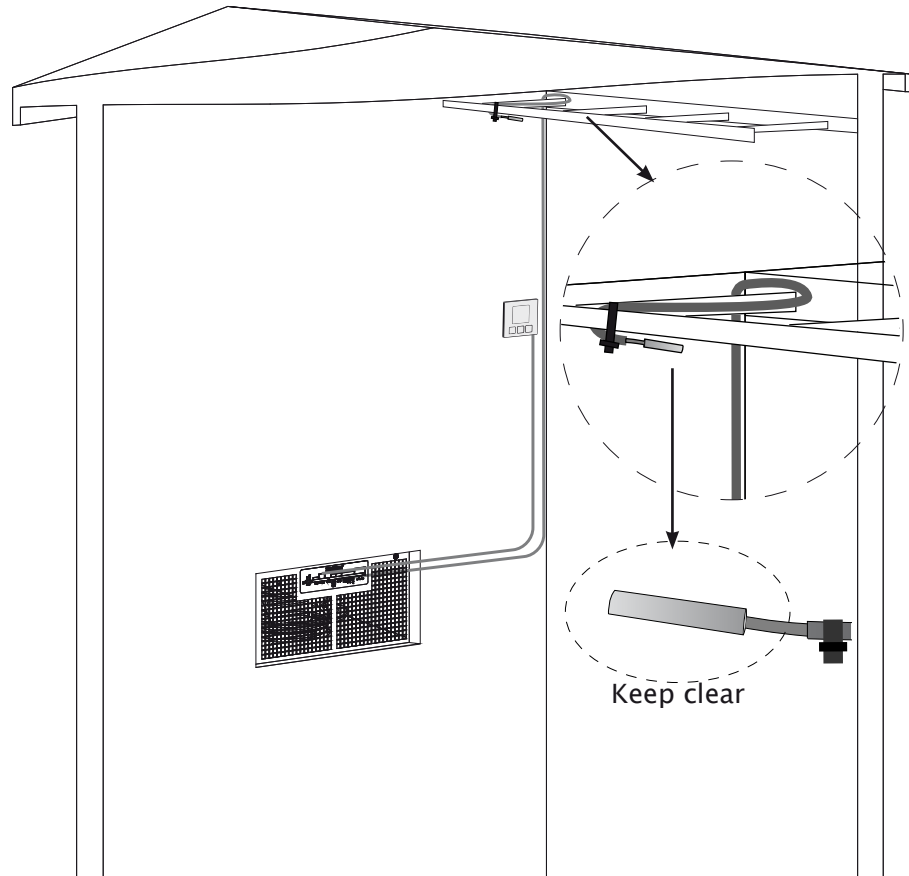
Seal unit



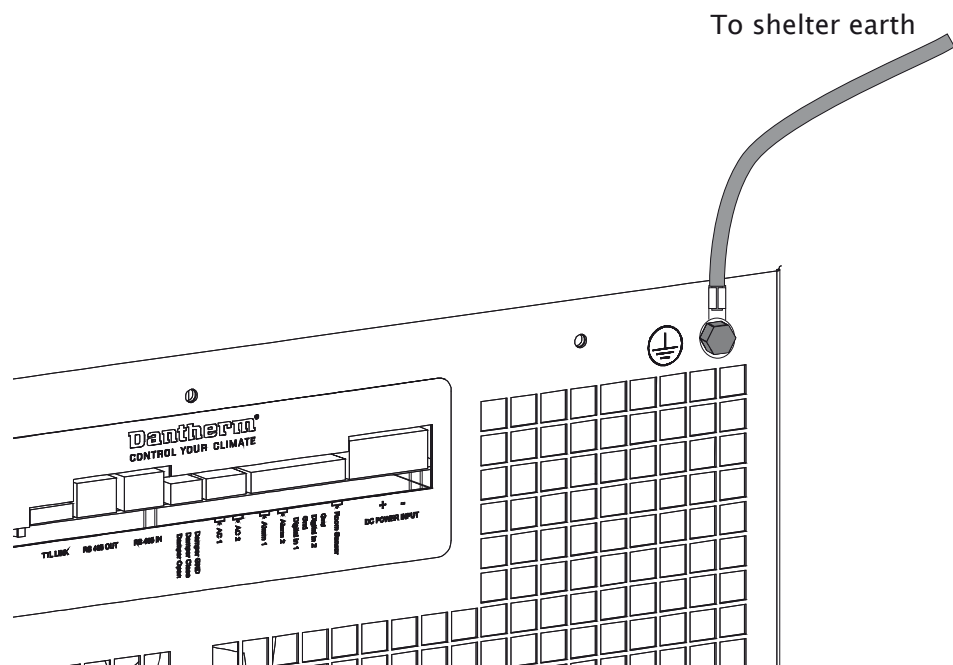
Mount damper



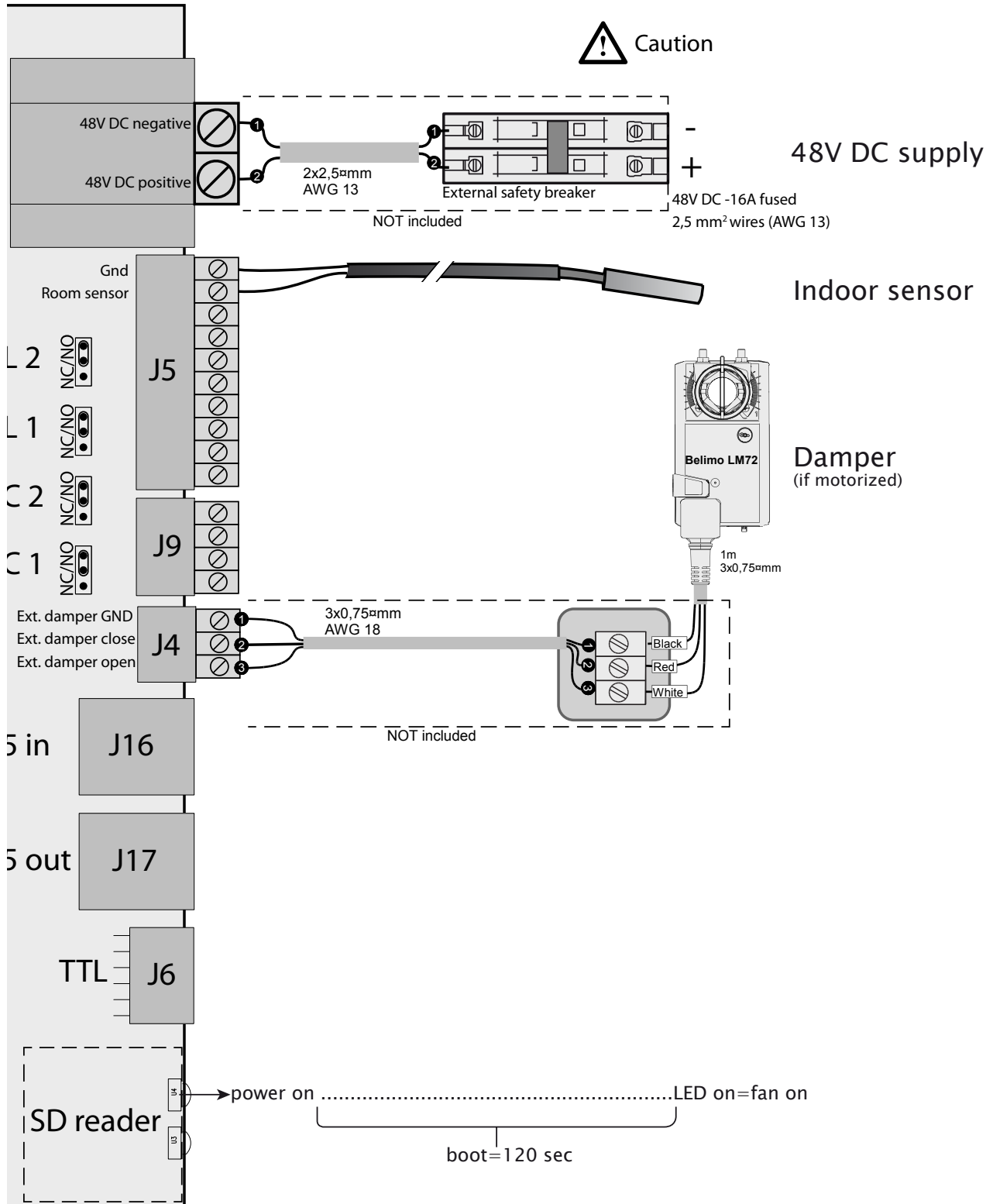
Mount indoor
sensor



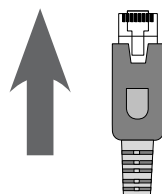
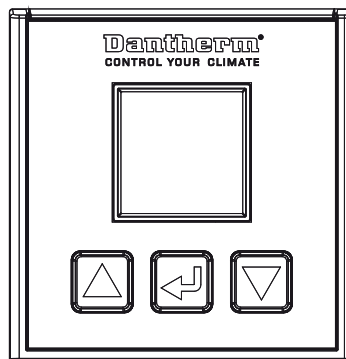
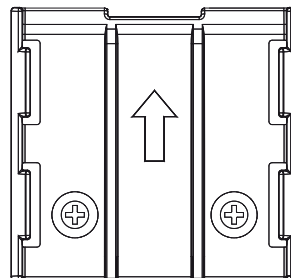
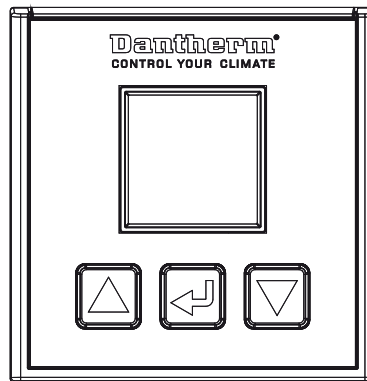
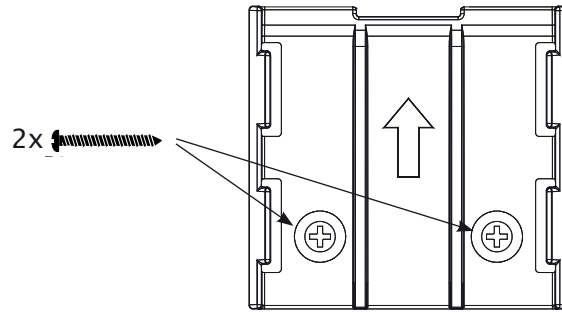
Connect earth



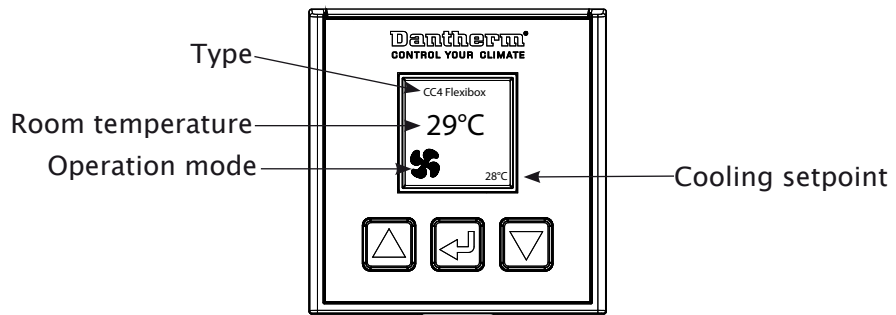
Mandatory connections







Mount display
(accessory)

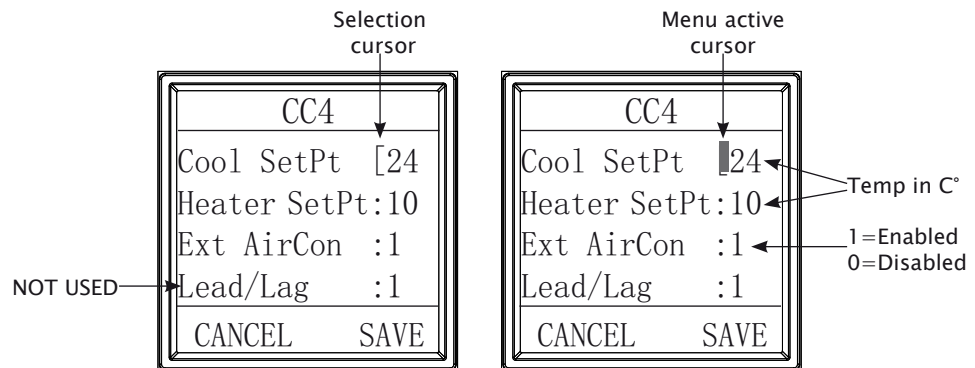


Display



Mode	Description
	Free cooling
	Active cooling
	Heat
	Alarm

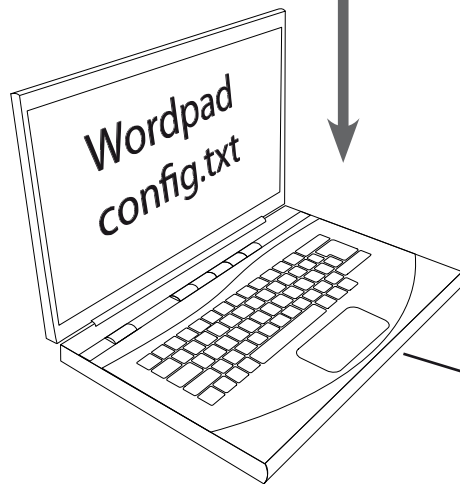
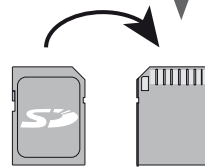
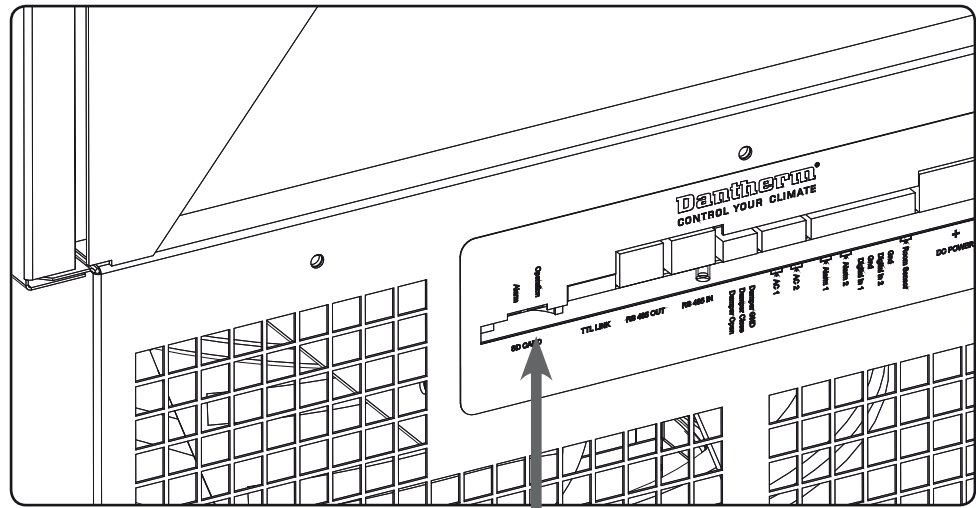
Changing parameters



Mode	▲	←	▼
Idle	Menu item up	Select item	Menu item down
menu item	Step value up	Store and return	Step value down

Parameter	Description	Default
Heater setpoint	The minimum acceptable shelter temperature. If lower the external heat will be active if connected.	12
Cooling setpoint	The maximum shelter temperature, at which the unit will start freecooling, if outside temperature is lower. If not the AC output will trigger	25
External AC	Enable/disable external aircon	OFF
Lead/Lag	Not active	

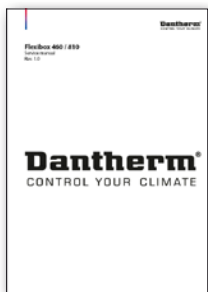
Advanced parameters



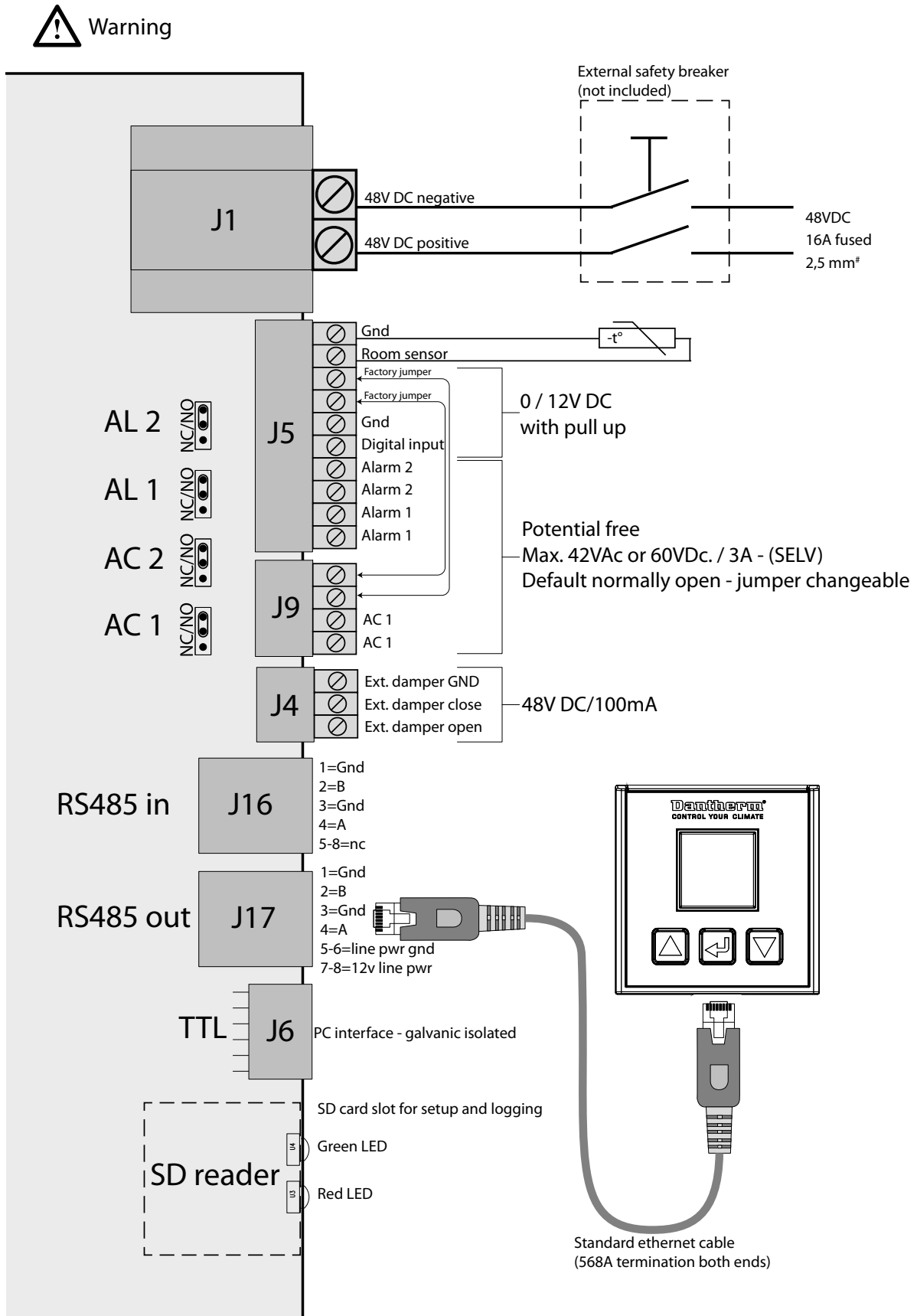
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Dantherm Air Handling A/S., Silve, 7800 DENMARK
Controller = CCM SW Ver = 0.4e
-----
C04 Configuration SW 2013.02.11
Device: Flexibox 810, 34845
-----
Cooling Fan Configuration
-----
Fan 1 Fan 2 Fan 3
1.OFF Temp [x70][+40-80]: 20.0 10.0 120.0
2.IDLE ON Temp [x71][+40-80]: 24.0 15.0 125.0
3.IDLE entry Temp [x72][+40-80]: 24.0 120.0 130.0
4.SET POINT Temp [x73][+40-80]: 24.0 124.0 130.0
5.IDLE SPEED Temp [x74][+40-80]: 28.0 130.0 150.0
6.EXTND HS entry Temp [x75][+40-80]: 30.0 134.0 155.0
7.EXTND HS wait Temp [x76][+40-80]: 28.0 132.0 150.0
8.BOOST entry Temp [x76][+40-80]: 34.0 140.0 160.0
9.BOOST wait Temp [x77][+40-80]: 34.0 135.0 155.0
10.IDLE RPM [x81][500-9999]: 500 11000 1800
11.MICH SPEED RPM [x81][500-9999]: 1840 11700 1400
12.EXTND HS RPM [x82][500-9999]: 2000 13000 16000
13.IDLE Duty Cycle [x83][10-100]: 20 100 130
14.MICH SPEED Duty Cycle [x83][10-100]: 80 180 180
15.EXTND HS Duty Cycle [x83][10-100]: 65 165 180
16.BOOST Duty Cycle [x84][10-100]: 100 100 100
17.Load Band RPM/Cycle [x84][100-1000]: 1000 1100 1100
18.Override = Digt.1 [x/0/1]: 0 1x 1x
19.Override = Digt.2 [x/0/1]: 0 1x 1x
20.Override = Sensor Fail [x/0/1]: x 1x 1x
21.Sens.del. OBD/ROOM/SFP/COND [0/1/2/3]: 1 13 13
22.Tacho pulse/sec [x/0/1]: 0 10 10
23.Tacho Control Ena/Dia [x/0/1]: 0 10 13
24.Ctrl type [0-10V/FAN] [x/0/1]: 0 10 10
25.Enable [x/0/1]: 1 10 10
-----
Damper Configuration
-----
Damper 1 Damper 2
1.LOWER Close Temp [x70][+40-80]: 20.0 20.0
2.SET POINT [x71][+40-80]: 24.0 24.0
3.SUPPLY Open Temp [x71][+40-80]: 60.0 60.0
4.OFFER Close Temp [x72][+40-80]: 60.0 60.0
5.EMERGENCY Open Temp [x73][+40-80]: 60.0 60.0
6.Override = Digt.1 [x/0/1]: 0 0
7.Override = Digt.2 [x/0/1]: 0 0
8.Override = Sensor Fail [x/0/1]: x x
9.Sensor del. OBD/ROOM/SUPPLY [0/1/2]: 1 1
10.Damper Run dur. [30 = 300]: 120 120
11.Enable [x/0/1]: 1 0
-----
Compressor/AO-Unit Configuration
-----
Comp A/C 1 A/C 2
1.ON Temp [x70][+40-80]: 32.0 32.0 32.0
2.OFF Temp [x71][+40-80]: 30.0 30.0 30.0
3.EMERG ON Temp [x72][+40-80]: 55.0 34.0 34.0
4.EMERG OFF Temp [x73][+40-80]: 55.0 34.0 34.0
5.Override = Digt.1 [x/0/1]: x 0 0
6.Override = Digt.2 [x/0/1]: x x x
7.Override = Sensor Fail [x/0/1]: x x x
8.Sens.del. OBD/ROOM/SUPPLY [0/1/2]: 1 1 1
9.Min. ON duration Sec.(1-30min) [60-1800]: 180 180 180
10.Restart time-out Sec.(1-30min) [60-1800]: 120 180 180
11.Load/Tag Enable [x/0/1]: 0 0 0
12.Enable [x/0/1]: 0 0 0
-----
Heater Configuration
-----
1.ON Temp [x70][+40-80]: 12.0
2.OFF Temp [x71][+40-80]: 14.0
3.Override = Digt.1 [x/0/1]: 0
4.Override = Digt.2 [x/0/1]: 0
5.Override = Sensor Fail [x/0/1]: x
6.Sensor del. OBD/ROOM/SUPPLY [0/1/2]: 1
7.Enable [x/0/1]: 1
-----
System Control Configurations
-----
1.Norm. Vdc Low Level [V][118-60]: 60
2.Norm. Vdc High Level [V][118-60]: 60
3.Temp Alarm Low Limit [T][+40-80]: 0.0
4.Temp Alarm High Limit [T][+40-80]: 50.0
5.Delta T [Delta][+40-80]: 3.0
6.Alarm1 NO/NC Type [Alarm][0/1]: 0
7.Alarm2 NO/NC Type [Alarm][0/1]: 0
8.Alarm1 delay sec [Alarm delay][0-100]: 10
9.Alarm2 delay sec [Alarm delay][0-100]: 10
10.Digt.1 NO/NC Type [Digt][0/1]: 0
11.Digt.2 NO/NC Type [Digt][0/1]: 0
12.Dose Xchb. NO/NC Type [Dose][0/1]: 0
13.Filter Grid NO/NC Type [Filter][0/1]: 0
14.Phase Monitor NO/NC Type [PM][0/1]: 0
15.Status Inp Dia/Ena. [Inp][0/1]: 1
16.Low Interval in min. [Intv][+60]: 1
17.Mod485 Bus Pwr. Dia/Ena [Pwr][0/1]: 1
18.ModBus Slave Addr [1-255]: 23
19.Alarm Mapping 1.Alarm 2.Alarm2
1.Pwr Save Mode [PWR][0/1]: 1 0
2.Room Temp H/L [THL][0/1]: 1 0
3.Fan 1 [F1][0/1]: 1 0
4.Fan 2 [F2][0/1]: 0 0
5.Fan 3 [F3][0/1]: 0 0
6.Combd. Sema [OS][0/1]: 0 0
7.Room Sema [RS][0/1]: 1 0
8.Amb. Sema [AS][0/1]: 1 0
9.Supp. Sema [SS][0/1]: 0 0
10.Cood. Sema [CS][0/1]: 0 0
11.Digt.1 I/P [F1I][0/1]: 0 0
12.Digt.2 I/P [F2I][0/1]: 0 0
13.Norm Xchb I/P [SI][0/1]: 0 0
14.Fan Spd I/P [F1I][0/1]: 0 1
15.Phase I/P [F1I][0/1]: 0 0

```



Optional connections



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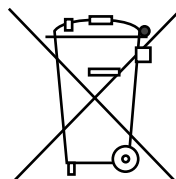
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