

OT remote control for ventilation

850 9 133

Installation and
operating instructions

D **F** **GB**



Remote control

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Basic safety instructions

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WARNING

Danger of death through electric shock or fire!

➤ Installation should only be carried out by a qualified electrician!

- The remote control is designed for wall installation

Designated use

- The remote control device controls ventilation in detached and multi-occupancy houses, flats, offices etc.
- There is a choice of 2 time programs for automatically switching between reduced mode and normal mode

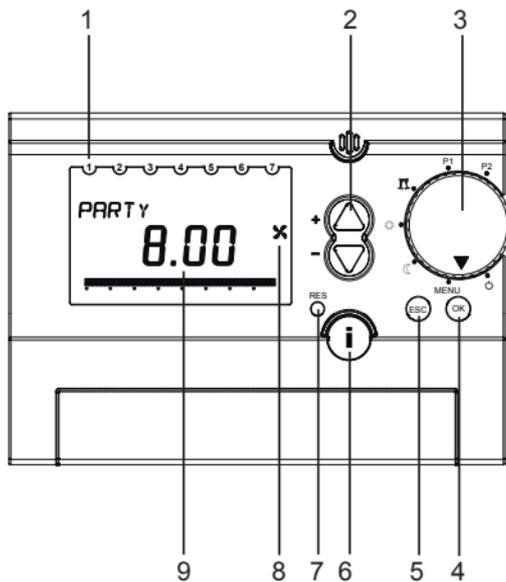
Various parameters can be set on the remote control (see page 28 ff.)

- It is used in dry rooms with normal levels of domestic cleanliness

Disposal

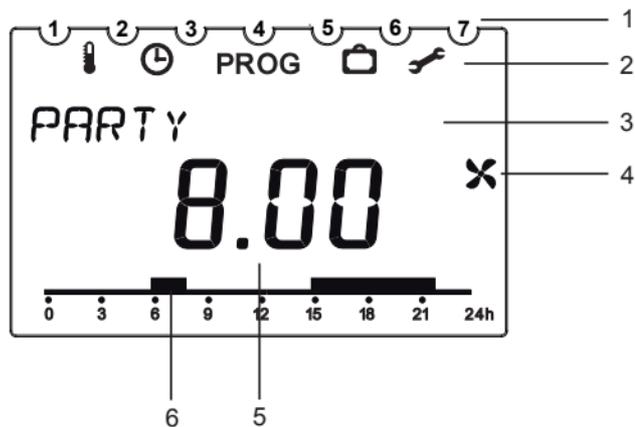
Dispose of device in environmentally sound manner

Screen and push buttons



- 1 Day of the week display (1 = Monday ...)
- 2 +/- (change values)
- 3 Rotary switch for program selection
- 4 **OK** (confirm selection, call up next parameter)
- 5 **ESC** (escape, cancel entry)
- 6 **info** (view settings)
- 7 **RES** (Reset for time, date, holiday program)
- 8 Fan operating display
- 9 Additional on-screen displays

Screen and buttons (ff.)



- 1** Weekdays 1 to 7
- 2 Display menu line**
-  Bypass function
 -  Date and time
 - PROG** individual time program P2
 -  Holiday program
 -  Service settings
- 3 Display text line**
Display depending on menu level and display settings
- 4 Fan operating display**
- 5 Display dependent on types of display**
Type 1 room temperature
Type 2 time (delivered status)
- 6 Ventilation time of time program**

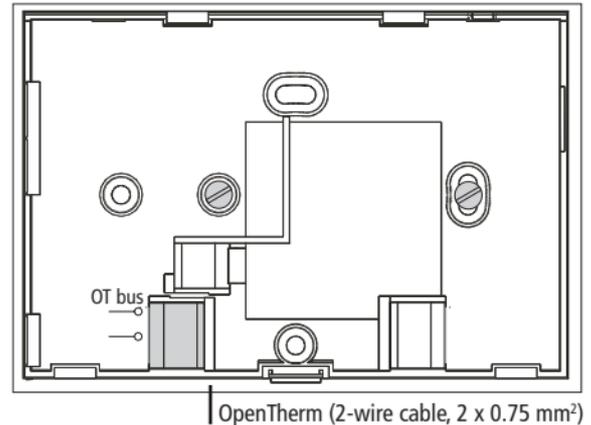
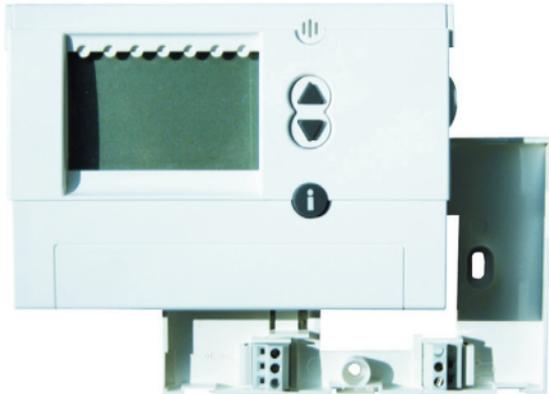
Connection/installation

Installation

- Fix plate to wall and attach device.
- Ensure installation height of approx. 1.5 m.
- Avoid installation near tiled stoves, windows, display cases, television sets etc.

Dismantling

- Insert screwdriver from below, push detent hooks up and open device.



Reset

- Press the **RES** button with a sharp object.
The following data is deleted: Date, time and holiday program.
Summer/winter changeover and program P2 remain unchanged.



Info key i – View settings

The **info button** can be used to view the current room temperature, all important settings of the relevant program, date and time as well as some current data from ventilation device (the rotary switch must not point to **MENU**).

- Press **i** button several times to view the current data:
 - Room temperature (only with display type 1, see page 24)
 - Date and time
 - Bypass valve position
 - Current air flow
 - Discharged air temperature



Factory setting (delivery status)

- Press **ESC** and **OK** buttons simultaneously for approx. 2 s.
- Select + or – buttons for value **1** (reset to factory setting) or value **0** (no reset).
- Confirm by pressing **OK**.

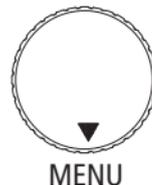
If value **1** is confirmed, the following data will be deleted:

Holiday program, time, date, program 2 and the GERMAN language option.



Factory setting (delivery status - configuration)

- Set rotary switch to **MENU**.
- Select **SERVICE** using the + or – buttons. Symbol  flashes.
- Confirm by pressing **OK**. **DISPLAY** flashes.
- Select **PARAMETER** using the + or – buttons.
- Select parameter **22** by pressing **OK**.
- Use + or – buttons to select desired change 1 (= yes) or 0 (= no).
- Confirm by pressing **OK** (all parameters are on factory setting, see page 28).
- Set rotary switch to desired program.



Initial start-up

- After connecting the OpenTherm bus line, follow instructions on display.

Setting date and time

The time appears first on the display at initial start-up or after a reset.

- Use the + or – buttons to select the **HOURL, MINUTE, YEAR, MONTH and DAY.**
- Confirm by pressing **OK.**
- Use the + or – buttons to select **END** or for the summer/winter time changeover **WITHOUT SU/WI** or **WITH SU/WI.**
- Confirm by pressing **OK.**

If you select **WITH SU/WI** you can choose between **EUROPE, FREE SETTING** and different countries.

- Confirm each setting by pressing **OK.**
- Set rotary switch to desired program.

The date, time and summer/winter changeover can also be set in the **SERVICE** menu under **HOURL/DATE** (see page 23 ff.).

Select language in the **SERVICE** menu (see page 26 ff.).



user information

Setting programs

Switch system off

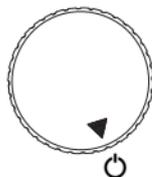
- Set rotary switch to  – You can briefly switch the system off.

Changing operating settings

- Set rotary switch to **MENU**, e.g. for changes to program P2.

Setting REDUCED program

- Set rotary switch to **REDUCED**  .
The air will be changed once within approx. 3 hours (e.g. at night or if occupant is away)



Caution:

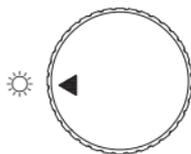
If the system is switched off damage could be caused by moisture.

Therefore, select **REDUCED** if away for a long period.

Setting programs (ff.)

Setting NORMAL program

- Set rotary switch to ☀ .
The air will be changed once within approx. 2 hours (e.g. during the day with normal use of the property)



Setting PARTY program

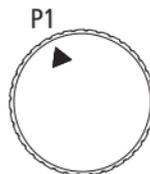
- Set rotary switch to **PARTY** 🍷 (on-demand service).
The air will be changed once within approx. 1.5 hours (e.g. in the event of high humidity or smoke)



Setting programs (ff.)

Setting program P1

- Set rotary switch to **P1**.
(preset fixed time program)



Monday to Friday

06.00 to 22.00: Ventilation at NORMAL level

Display: P1 NORMAL

22.00 to 06.00: Ventilation at REDUCED level

Display: P1 REDUCED

Saturday and Sunday

07.00 to 23.00: Ventilation at NORMAL level

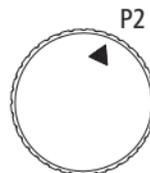
Display: P1 NORMAL

23.00 to 07.00 ventilation at REDUCED level

Display: P1 REDUCED

Setting program P2

- Set rotary switch to **P2**.
(individually set time program), for programming switching times, see page 14 ff.



Setting switching times (for ventilation)

- Switching times have to be entered for the full week.
- Time and ventilation level have to be set for each switching time.
- Up to 32 switching times can be entered.
- You can choose between:

MON–FRI	(the same for Monday to Friday)
SAT–SUN	(the same for Saturday and Sunday)
DAILY	(the same for all weekdays)
INDIVIDUAL DAY	(different for each individual day)

If you want to change the switching times for individual days after setting, you must first delete the set switching times for that particular day.

You can then enter the new switching times for the individual day of the week (**INDIVIDUAL DAY**).



If no switching times and program are entered on P2, the ventilation device will run in **REDUCED** mode.

Example

Room ventilation with normal ventilation level from Monday – Friday and on Sunday from 08:00 to 22:00 as well as on Saturday from 09:00 to 23:00.

Room ventilation should be run at reduced ventilation level for the rest of the time.

to ❶ set MON–FRI switching times

- Set rotary switch to **MENU**.
- Use the + button to select **PROGRAM P2**. **PROG** flashes.
- Confirm by pressing **OK**. **NEW** flashes.
- Confirm by pressing **OK**. Free memory locations (max. 32) and **MON–FRI** flash.
- Confirm by pressing **OK**.

Operating steps:

- ❶ Mon–Fri: 08:00–22:00
Setting **MON–FRI** switching times
- ❷ Individual day **SUNDAY**:
Setting switching times from 08:00–22:00
- ❸ Individual day **SATURDAY**:
Setting switching times from 09:00 to 23:00



- Use the + or – buttons to enter **HOURL** and **MINUTE** (08:00) and confirm by pressing **OK**. **NORMAL** flashes.
- Confirm by pressing **OK**. **END** → **NEW** flashes.

- Confirm by pressing **OK**. Free memory locations (max. 32) and **MON–FRI** flash.
- Confirm by pressing **OK**.
- Repeat steps for 22.00.
- Confirm by pressing **OK**. **REDUCED** flashes.
- Confirm by pressing **OK**. **END → NEW** flashes.

to ② set **INDIVIDUAL DAY**(Sunday)

- Confirm by pressing **OK**. **MON–FRI** flashes.
- Use + or – buttons to select **INDIVIDUAL DAY**.
- Confirm by pressing **OK**. **MONDAY** is displayed.
- Use + or – buttons to select **SUNDAY**.
- Confirm by pressing **OK**. **HOURL** flashes.
- Use the + or – buttons to enter **HOURL** and **MINUTE** (08:00).
- Confirm by pressing **OK**. **NORMAL** flashes.
- Confirm by pressing **OK**. **END → NEW** flashes.
- Confirm by pressing **OK**.

INDIVIDUAL DAY flashes.

- Confirm by pressing **OK**. **MONDAY** is displayed.
- Use + or – buttons to select **SUNDAY**.
- Confirm by pressing **OK**. **HOURL** flashes.
- Use the + or – buttons to enter **HOURL** and **MINUTE** (22:00).
- Confirm by pressing **OK**. **REDUCED** flashes.
- Confirm by pressing **OK**. **END → NEW** flashes.

to ③ set **INDIVIDUAL DAY** (Saturday)

- Confirm by pressing **OK**. **INDIVIDUAL DAY** flashes.
- Confirm by pressing **OK**. **MONDAY** is displayed.
- Use + or – buttons to select **SATURDAY**.
- Confirm by pressing **OK**. **HOURL** flashes.
- Use the + or – buttons to enter **HOURL** and **MINUTE** (09:00).
- Confirm by pressing **OK**. **NORMAL** flashes.

- Confirm by pressing **OK**. **END → NEW** flashes.
- Confirm by pressing **OK**. **INDIVIDUAL DAY** flashes.
- Confirm by pressing **OK**. **MONDAY** is displayed.
- Use + or – buttons to select **SATURDAY**.
- Confirm by pressing **OK**. **HOUR** flashes.
- Use the + or – buttons to enter **HOUR** and **MINUTE** (23:00:00).
- Confirm by pressing **OK**. **REDUCED** flashes.
- Confirm by pressing **OK**. **END → NEW** flashes.
- Use + or – buttons to select **END**.
- Confirm by pressing **OK**.
- Set rotary switch to P2.

Delete switching times

You can delete all, or just individual, switching times.

Deleting individual switching times

- Set rotary switch to **MENU**.
- Use the + button to select **PROGRAM P2**. **PROG** flashes.
- Confirm by pressing **OK**. **NEW** flashes.
- Use + or – buttons to select **DELETE**.
- Confirm by pressing **OK**. **INDIVIDUAL** flashes.
- Confirm by pressing **OK**. The first switching time for Monday appears.
- Use the + button to select the desired switching time.
- Confirm by pressing **OK**. **DELETE** flashes.
- Confirm by pressing **OK**. The selected switching time is deleted.
- Use the + or – buttons to select more switching times or
- press+ button until **END** appears.
- Set rotary switch to desired program.

Delete all switching times

- Set rotary switch to **MENU**.
- Use the + button to select **PROGRAM P2**.
PROG flashes.
- Confirm by pressing **OK**. **NEW** flashes.
- Use + or – buttons to select **DELETE**.
- Confirm by pressing **OK**. **INDIVIDUAL** flashes.
- Use + or – buttons to select **ALL**.
- Confirm by pressing **OK**. **CONFIRM** flashes.
- Confirm by pressing **OK**. All switching times are deleted.
- Set rotary switch to desired program.



Viewing switching times

- Set rotary switch to **MENU**.
- Use the + button to select **PROGRAM P2**.
PROG flashes.
- Confirm by pressing **OK**. **NEW** flashes.
- Use + or – buttons to select **VIEW**.
- Confirm by pressing **OK**. The first switching time for Monday appears.
- **OK** to view all the other switching times for the week.
- Set rotary switch to desired program.



Reducing ventilation for several days

- You can set the ventilation to minimum energy use via the holiday program .
- The ventilation then operates in **REDUCED** mode.

Setting holiday program (start and end times)

- Set rotary switch to **MENU**.
- Use the + or – buttons to select **HOLIDAY**.
- Confirm by pressing **OK**. The **START** or **END DATE** briefly appears.
- Use the + or – buttons to select **YEAR, MONTH, DAY** and **HOUR**.
- Confirm each setting by pressing **OK**.
- Confirm by pressing **OK**. **END** appears.
- Set rotary switch to desired program.
The following appears when the starting time is reached:



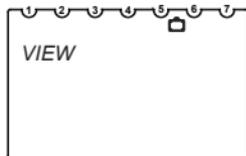
Ending/deleting holiday program

- The holiday program ends automatically when you have reached the end time.
- Take the following steps if you have prematurely cleared the holiday program:
 - Set rotary switch to **MENU**.
 - Use the + or – buttons to select **HOLIDAY**.
 - Confirm by pressing **OK**. **VIEW** flashes.
 - Use + or – buttons to select **DELETE**.
 - Confirm by pressing **OK**. The holiday program is deleted.
 - Set rotary switch to desired program.



Viewing Holiday program

- Set rotary switch to **MENU**.
- Use the + or – buttons to select **HOLIDAY**.
- Confirm by pressing **OK**. **VIEW** flashes.
- Confirm by pressing **OK**. **START DATE, YEAR** appears.
- Use **OK** to view **MONTH/DAY** and **HOUR**. **END DATE, YEAR** appears.
- Use **OK** to view **MONTH/DAY** and **HOUR**.
- Set rotary switch to desired program.



Changing ventilation manually

- In programs P1 and P2 you can select a higher/lower ventilation level, depending on the available ventilation setting, without permanently changing the settings.
- These automatic settings are automatically reset.
- 3 ventilation levels are available. They can be changed using the ▲ ▼ buttons:

- REDUCED
- NORMAL
- PARTY (on-demand service)



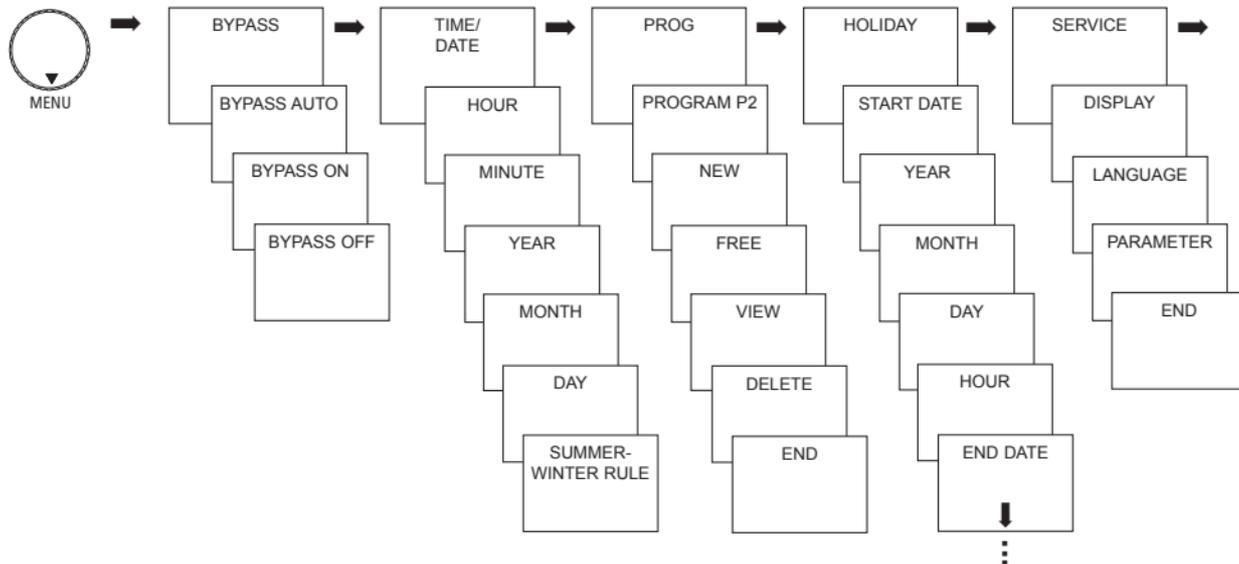
- As soon as the next switching time on the active P1 or P2 program is reached, the ventilation setting of the program applies again (Setting switching times, see p. 14)



Operating level for specialist personnel

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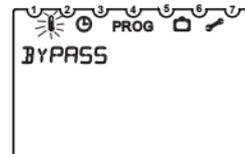
Settings – Overview



Functions

Setting bypass functions

- Set rotary switch to **MENU**.
- Use the + or – buttons to select **BYPASS**.
The symbol  flashes.
- Confirm by pressing **OK**.
- Use the + or – buttons to select **BYPASS ON**, **BYPASS AUTO**, **BYPASS OFF**.
- Confirm by pressing **OK**.



Setting date and time

- Set rotary switch to **MENU**.
- Use the + or – buttons to select **TIME/DATE**.
The symbol  flashes.
- Confirm with **OK**, the current time flashes.
- Use the + or – buttons to set **HOUR**, **MINUTE**, **YEAR**, **MONTH** and **DAY** and confirm with **OK**.



Setting date and time (ff.)

- Use the + or – buttons to select **END** or for the summer/winter changeover **WITHOUT SU/WI** or **WITH SU/WI**.
- Confirm by pressing **OK**. When you select **WITH SU/WI**, **EUROPE** appears.
- Use the + or – buttons to **select a country** or **FREE SETTING**.
- Confirm by pressing **OK**. If you select **FREE SETTING**, **MONTH SU** appears.
- Use the + or – buttons to select date, time, summer/winter changeover **MONTH SU, WEEK SU; HOUR, MONTH WI, WEEK WI**.
- Confirm with **OK**, the current time flashes.
- Set rotary switch to desired program.



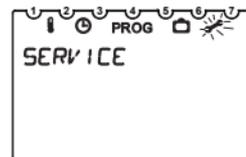
WEEK SU and **WEEK WI** describe the weekend in the selected month. The time for switching to winter time is taken from the summer time (**HOUR**).

SERVICE settings

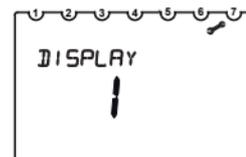
Setting display type

The on-screen display for the individual positions of the rotary switch depend on the set display type.

- Set rotary switch to **MENU**.
- Select **SERVICE** using the + or – buttons.
The symbol  flashes.
- Confirm by pressing **OK**, **DISPLAY** flashes.
- Confirm by pressing **OK**.
- Use the + or – buttons to select type 1 (room temperature display) or 2 (time display).
- Confirm by pressing **OK**.
- Set rotary switch to desired program.



Rotary switch to P1

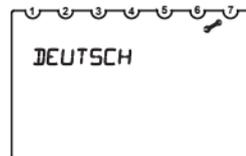


Display type 1
Room temperature
display

SERVICE settings (ff.)

Setting the language

- Set rotary switch to **MENU**.
- Use the + or – buttons to select **SERVICE**.
The symbol  flashes.
- Confirm by pressing **OK**, **DISPLAY** flashes.
- Use the + or – buttons to select **LANGUAGE**.
- Confirm by pressing **OK**, the selected language (DEUTSCH, FRANÇAIS, SVENSKA, ITALIANO or POLSKI flashes (GERMAN is default setting).
- Confirm by pressing **OK**.
- Set rotary switch to desired program.

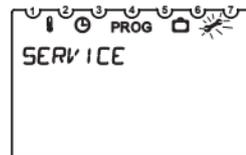


SERVICE settings (ff.)

Setting parameters

Potential settings depend on ventilation control used

- Set rotary switch to **MENU**.
- Use the + or – buttons to select **SERVICE**.
The symbol  flashes.
- Confirm by pressing **OK**, **DISPLAY** flashes.
- Use the + or – buttons to select **PARAMETER**.
- Confirm by pressing **OK**. You can call up the parameter by pressing the **OK** button and change values with the + or – buttons.
- Confirm each setting by pressing **OK**.
- Set rotary switch to desired program.



The next pages contain a list of the changeable and fixed parameters that can be selected as required.

1. Changeable parameters

Number	Description	Possible values (depending on the type of device)	Factory settings
00	Air flow in reduced mode (setting range min. 10 m ³ /h less than on-demand mode setting)	180 m ³ /h: 50 ... 170 300 m ³ /h: 50 ... 290 400 m ³ /h: 50 ... 390	75 m ³ /h 100 m ³ /h 100 m ³ /h
01	Air flow in normal mode (setting range min. 5m ³ /h less than on-demand mode)	180 m ³ /h: 50 ... 175 300 m ³ /h: 50 ... 295 400 m ³ /h: 50 ... 395	100 m ³ /h 150 m ³ /h 200 m ³ /h
02	Air flow in on-demand mode	180 m ³ /h: 50 ... 180 300 m ³ /h: 50 ... 300 400 m ³ /h: 50 ... 400	150 m ³ /h 225 m ³ /h 300 m ³ /h
03	Min. AT bypass	5 to 20	+10 °C
04	Min. RT bypass	18 to 30	+22 °C
05	Fixed pressure imbalance	-100 to +100	0
06	Permissible pressure imbalance	0 to 1	1-yes
07	Bypass (mode) setting	0 to 2	1-yes
08	Bypass hysteresis	0 to 5	2
09	Constant pressure switched off	0 to 1	0-no
10	Filter change display (yes/no)	0 to 1	0-no
11	Additional conductor plate (yes/no)	0 to 1	0-no
22	Restore all parameters to factory setting	0 to 1	0-no

2. Fixed parameters

Number	Description	Possible values	Converted display value
12	Type of device	relevant devices	relevant devices
13	Current throughput in m ³ /h	0 to 40	0 to 400 m ³ /h
14	Bypass function	0 to 2	0 to 24/1 Auto/2 min
15	External air temperature in °C	-100 to +200	-100 to +100
16	Room air temperature in °C	-100 to +100	-100 to +100
17	Current external air flow in m ³ /h	0 to 40	0 to 400 m ³ /h
18	Current external air flow in m ³ /h	0 to 40	0 to 400 m ³ /h
19	Current external air pressure in Pa	0 to 120	0 to 120 Pa
20	Current discharged air pressure in Pa	0 to 40	0 to 120 Pa
21	Frost protection status	0 to 40	0 – inactive 1 to 4 – pressure imbalance 5 – Extractor fan off

Technical data

Power reserve:	>4 hours (after 6 hours charging)
Power consumption:	30 mW (typical)
OpenTherm bus:	
Connection:	2 wire interchangeable
Cable length:	max. 50 m
Cable resistance:	max. 2 x 50 Ω (0.75 mm ²)
Temperature range:	0 °C to +30 °C in increments of 0.2 °C
Permissible ambient temperature:	0 °C ... +50 °C
Memory locations:	32 (programmable for Mon–Fri, Sat–Sun)
Protection class:	III in accordance with EN 60730-1 subject to designated installation
Protection rating:	IP 20 in accordance with EN 60529
Time accuracy:	± 1 s/day at 20 °C
Pollution degree:	2

Service address

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