Temperature controller fan coil
Art. No. : TRDLS9248..
Temperature controller fan coil
Art. No. : TRDA5248..

Operating instructions

1 Safety instructions

Electrical devices may only be mounted and connected by electrically skilled persons.

Serious injuries, fire or property damage possible. Please read and follow manual fully.

These instructions are an integral part of the product, and must remain with the end customer.

2 Function

Intended use

- Pushbutton sensor module for operating electrical fan coil units in KNX systems
- Measurement and feedback control of the room temperature
- Mounting in appliance box according to DIN 49073

Product characteristics

- 8 capacitive sensor buttons
- Internal temperature sensor
- External temperature sensor can be evaluated
- Control of fan coil units
- Heating and/or cooling mode
- Suitable for 2-tube or 4-tube systems
- Up to 3 fan levels can be controlled
- Room temperature controller function
- Preselection of the current energy level either through the option of 4 operating modes in accordance with KNX standard or of 5 temperature profiles for use in hotels or similar sites
- Display for indication of temperature (°C or °F), fan level, operating mode/profile
- 1 operating level and 2 menu levels
- Menu levels blockable
- 1 status LED (red/green/blue)
- Brightness and contrast adjustable
- Illumination duration of the lighting up to 120 seconds
- Operation possible as room temperature controller extension
- Integrated bus coupling unit

3 Operation

Operating elements

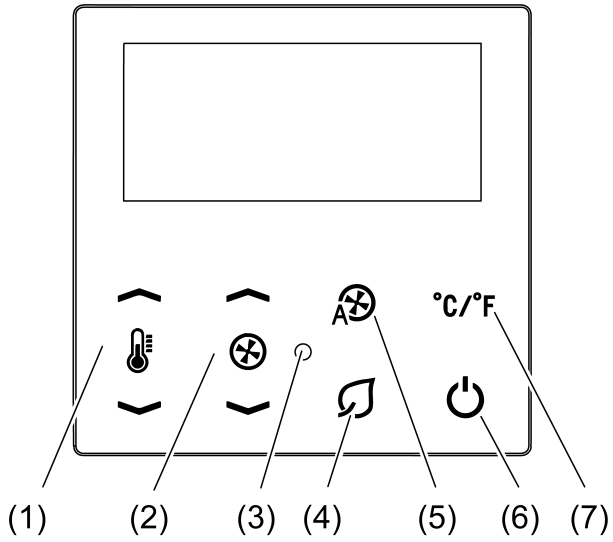

Figure 1: View

(1) Temperature setpoint adjustment
(2) Manual setting of the fan level
(3) Status LED
(4) Switchover to eco profile or night operation
(5) Fan level automatic operation
(6) Switchover to standby profile or frost/heat protection mode
(7) Switchover of temperature display °C/°F

i The technical data on our Internet site show details of the menu levels 1 and 2.

Operating modes and display icons

The device compares the current room temperature with the setpoint temperature and controls heating or cooling devices according to the current demand. The setpoint temperature depends on the currently set operating mode or profile and can be changed by the user, depending on the programming. The current operating mode is shown in the display.

Icon	Meaning
No icon	Comfort profile or comfort operating mode
☆	Comfort profile or standby operating mode
	Eco profile or night operating mode
	Standby profile
	Building protection profile or frost/heat protection operating mode
	Heating
	Cooling
	Setpoint temperature
	Manual fan level
	Automatic fan level

Status LED

The status LED shows the controller's operating mode or actuation of the sensor buttons or both, depending on the parameterisation.

LED colour	Profile or operating mode
Green or off	Comfort, comfort–, eco or Comfort, standby, night
Red or off	Standby, building protection or Frost/heat protection

Green flashing signals actuation of the sensor buttons.

Operating level

- Increase setpoint temperature: press sensor button.
- Reduce setpoint temperature: press sensor button.
- Increase fan stage: press sensor button.
- Reduce fan stage: press sensor button.
- Set automatic fan stage: press sensor button.
- Switchover to the eco profile or night operating mode: press sensor button.
- Switchover to the standby profile or frost/heat protection operating mode: press sensor button.

i The profiles eco and standby or operating modes night and frost/heat protection are exited by pressing again the sensor buttons or. The follow-on condition depends on whether or not the presence of persons was reported to the controller.

Open menu level 1

Only for heating and cooling mode with manual switchover.

- Press the sensor buttons and between 2 and 4 seconds.

Menu level 1:

- Switchover heating mode/cooling mode

Open menu level 2

- Press the sensor buttons and longer than 5 seconds.

Menu level 2:

- Setpoint temperature heating comfort or comfort
- Setpoint temperature cooling comfort or comfort
- Lowering of setpoint temperature heating comfort or standby
- Raising of setpoint temperature cooling comfort or standby
- Fan control setting comfort or standby
- Lowering of setpoint temperature heating eco or night
- Raising of setpoint temperature cooling eco or night
- Fan control setting eco or night
- Lowering of setpoint temperature heating standby
- Raising of setpoint temperature cooling standby
- Fan control setting standby
- Fan level for the individual profiles or operating modes
- Reset changes
- Set offset for temperature measurement
- Disable controller
- Set display brightness
- Set display contrast
- Set display illumination duration

Operating in the menu

- Increase value: press sensor button.
- Reduce value: press sensor button.

- Select previous menu item: press sensor button.
- Select next menu item: press sensor button.
- Exit menu without saving: press sensor button (☒)
- Save settings and exit menu: press **°C/°F** sensor button (☑)

4 Information for electrically skilled persons

Mortal danger of electric shock.
Cover up live parts in the installation environment.

Mounting and connecting the device

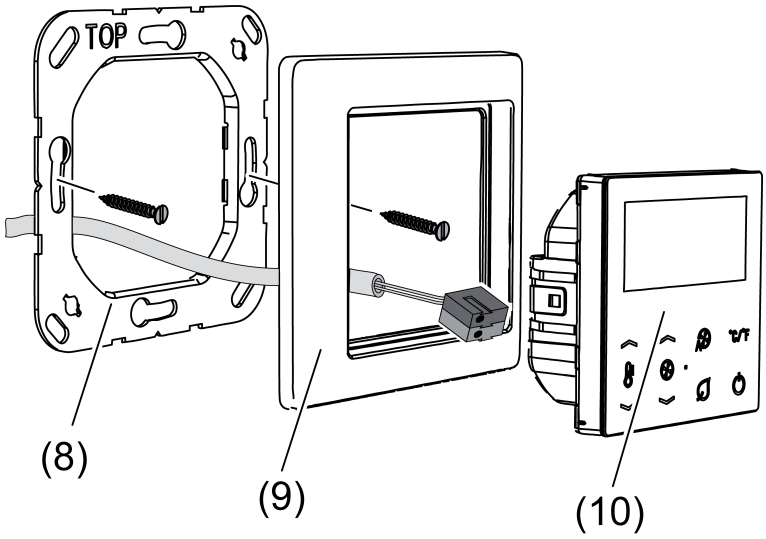

Figure 2

Recommended installation height: 1.50 m.

- Mount supporting frame (8) in the right orientation on an appliance box. Note marking **TOP**.
- Push frame (9) onto supporting frame.
- Connect device (10) to the bus cable via a bus terminal and put on the supporting frame.

Load physical address and application program

Project design and commissioning with ETS4.2 or ETS5 or later.

The device is connected. Bus voltage is switched on.

- Simultaneously, press the sensor buttons and for approx. 2 seconds.
  PRG MODE appears on the display. The Status LED flashes blue quickly.
- Assign physical address and load application program into the device.

i If the status LED flashes blue slowly, either no application program or an incorrect one has been loaded.

5 Technical data

KNX medium	TP 256
Commissioning mode	S-mode
Rated voltage KNX	DC 21 ... 32 V SELV
Current consumption KNX	8 ... 17.5 mA
Protection class	III
Ambient temperature	-5 ... +45 °C
Storage/transport temperature	-20 ... +70 °C

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