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Eltako ELECTRONICS

Wireless temperature controller Air+Floor FTAF55D/230V-wg

CE

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

Temperature at mounting location:
-20°C up to +50°C.
Storage temperature: -25°C up to +70°C.
Relative humidity:
annual average value <75%.

Note: Select english language!*

Wireless temperature controller Air+Floor with display pure white glossy for single mounting 80x80x14 mm or mounting into the E-Design55 switching system. Installation depth 33 mm. With adjustable day and night reference temperatures. Display illuminated. Preset ready to operate. Wired temperature sensor for monitoring of floor temperature can be connected. 1 NO contact not potential-free 16 A/250 V AC. Power supply 230 V. Only 0.4 watt standby loss. Smart Home sensor.

For installation in 55 mm switch boxes.

Ca. 7 days power reserve.

Zero passage switching.

You can freely distribute up to 60 timer memory locations. Includes data and automatic summer/winter time changeover.

Settings are made with the buttons MODE and SET and the settings can be interlocked. 20 seconds after you last press MODE or SET, the program returns automatically to normal display and the display illumination goes off.

A complete switching program is preset and can be changed very easily. Daytime setpoint temperature 22°C Monday to Thursday from 6.00 to 22.00, Friday from 6.00 to 23.00, Saturday from 7.00 to 23.00 and Sunday from 7.00 to 22.00. The present night setpoint temperature is 18°C.

*** Set language:** Every time the power supply is applied, press SET within 10 seconds to set the language *deutsch, english, francais, espanol* or *svenska* and press MODE to confirm. The **normal display** then appears: weekday, date, time, actual temperature from 0°C to +40°C with one decimal point. If the settings are locked, press MODE (+) or SET (-) here to display the setpoint temperature setp.temp. (or setpoint PWM) and change it from +8°C to +40°C in steps of 0.5°C (or 0 to 100% in steps of 10%).

Rapid scroll: In the settings below, the numbers increment rapidly when you press and hold down the input button for longer. Release then press and hold down to change the scroll direction.

Set clock: Press MODE then press SET to search for the ***clock* function.** Select by pressing MODE. Press SET to select the hour, then press MODE to confirm. Proceed in the same way to select the minutes.

Set date: Press MODE then press SET to search for the ***date* function.** Select by pressing MODE. Press SET to select the year, then press MODE to confirm. Proceed in the same way for month and day. The last setting in the sequence is the weekday. Press SET to set it.

Enter programs:
Press MODE and then press MODE again to select the ***programs* function**, P01 appears in the display. Press SET to select the program you want to edit.

After you press MODE to confirm, press SET to select between ***inactive*** and ***active.***

When you press MODE to confirm inactive, the normal display appears.

When you press MODE to confirm active, press SET to select between night-tmp. (or night PWM), day-temp. (or day PWM) and free-temp. (or free PWM) and press MODE to confirm.

- The night-tmp. (or night PWM) and day-temp. (or day PWM) entered is transferred automatically to all programs.
- You can enter the free-temp. (or free PWM) individually for each program.

Then press SET to set the setpoint temperature (or PWM).

After you press MODE to confirm, press SET to set the hour.

After you press MODE to confirm, press SET to set the minutes.

After you press MODE to confirm, press SET to activate the entire week or individual week days. Press MODE to confirm. The normal display again appears after you complete your entry.

Press MODE long (2 seconds) to exit the menu at any point.

The parameter changes are saved and the normal display appears.

Controller mode: Press MODE and then press SET to search for **Controller mode.** Press MODE to select. Press SET to select one of the following controller modes.

internal sensor: The controller operates as **two-point controller** and control reverts to the internal sensor.

When you press MODE to confirm, then press SET to select controller hysteresis between 0.5K and 4.5K in steps of 0.5K. Press MODE to confirm.

The function is switched off at 'actual temperature <= (set temperature - hysteresis)'. An H appears in the display.

The function is switched off at 'actual temperature >= set temperature'.

int. / flo. sensor: Important: A floor sensor (NTC) must be connected.
The controller operates as **two-point controller** and control reverts to the internal sensor.

When you press MODE to confirm, then press SET to select the connected floor sensor (NTC 8.2K, 10K, 12K, 15K, 18K). When you press MODE to confirm, press SET to select the max. floor temperature between 20°C and 40°C in steps of 0.5. Press MODE to confirm.

Then select controller hysteresis between 0.5K and 4.5K in steps of 0.5 K. Press MODE to confirm.

The function is switched on at 'actual temperature >= (set temperature - hysteresis)'. An H appears in the display.

The function is switched off at 'actual temperature >= setpoint temperature' or when the max. floor temperature setting is reached.

external sensor: You must teach in an external temperature sensor. The controller operates as **two-point controller** and control reverts to the external sensor.

When you press MODE to confirm, then press SET to select controller hysteresis between 0.5K and 4.5K in steps of 0.5K. Press MODE to confirm.

The function is switched on at 'actual temperature <= (set temperature - hysteresis)'. An H appears in the display.

The function is switched off at 'actual temperature >= set temperature'.

PWM regulator: Important: A floor sensor (NTC) must be connected!

When you press MODE to confirm, then press SET to select the connected floor sensor (NTC 8.2K, 10K, 12K, 15K, 18K). When you press MODE to confirm, press SET to select the max. floor temperature between 20°C and 40°C in steps of 0.5. Press MODE to confirm.

Then select the PWM period between 5 and 60 minutes in steps of 5 minutes. Press MODE to confirm.

The controller is switched on and off depending on a PWM in %. It is defined instead of temperature in the program menu.

When the max. floor temperature setting is reached, the controller is switched off.

PWM controller / floor sensor: Important: A floor sensor (NTC) must be connected!

When you press MODE to confirm, then press SET to select the connected floor sensor (NTC 8.2K, 10K, 12K, 15K, 18K). When you press MODE to confirm, press SET to select the max. floor temperature between 20°C and 40°C in steps of 0.5. Press MODE to confirm.

Then select the PWM period between 5 and 60 minutes in steps of 5 minutes. Press MODE to confirm. Also select the controller hysteresis between 2K and 4.5K in steps of 0.5K. Press MODE to confirm.

The function is switched on at 'actual temperature <= (set temperature - hysteresis)'. An H appears in the display. When the 'actual temperature' is between

the 'setpoint temperature - hysteresis' and 'the setpoint temperature', the function is switched on and off with a PWM depending on the temperature difference.

The function is switched off at 'actual temperature >= setpoint temperature' or when the max. floor temperature setting is reached.

floor-sensor: Important: A floor sensor (NTC) must be connected. The controller operates as **two-point controller** and control reverts to the floor sensor (NTC). When you press MODE to confirm, then press SET to select the connected floor sensor (NTC 8.2K, 10K, 12K, 15K, 18K). When you press MODE to confirm, press SET to select the max. floor temperature between 20°C and 40°C in steps of 0.5. Press MODE to confirm. Then select controller hysteresis between 0.5 K and 4.5 K in steps of 0.5 K. Press MODE to confirm.

The function is switched on at 'actual temperature <= (set temperature - hysteresis)'. An H appears in the display.

The function is switched off at 'actual temperature >= setpoint temperature' or when the max. floor temperature setting is reached.

The following sensors can be taught in the FTAF55D:

GFVS (teach-in telegram: 0x40300D85), **one** external temperature sensor FTR (EEP: A5-10-06), FTF (EEP: A5-02-05) or FAFT (EEP: A5-04-02) and up to 22 window/door contacts FTK (EEP: D5-00-01), FTKB-hg (EEP: A5-14-0A), FF-G7B (EEP: A5-14-09), FHF (EEP: F6-10-00), window fittings (EEP: A5-14-01).

Learn: Press MODE and then press SET to search for the ***learn*** **function.** Select by pressing MODE.

The display shows *wait for telegram.* A teach-in telegram must then be sent. When the telegram is received, the display indicates *telegram received.* Press MODE to confirm this.

You can only exit teach-in mode by pressing the MODE pushbutton for longer than 2 seconds. The normal display then appears.

Clear: Press MODE and then press SET to search for the ***clear all programs*** **function.** Press MODE to select. Press SET to select between **all programs, all ID's** or **one ID.** Press MODE to confirm.

- When you press MODE to confirm *all programs* or *all ID's, press SET to erase* appears in the display.

  When you press SET to confirm this, *erasing finished* appears in the display at the end of the clear process. Press MODE to confirm this. When you press MODE to confirm *press SET to erase, erasing cancelled* appears in the display and the display reverts to the normal display after 2 seconds.
- When you press MODE to confirm, *wait for telegram* appears in the display. Then a sensor to be cleared must send a teach-in telegram. When it is received, *telegram received* appears in the display. When you press MODE to confirm this, press SET to select between *don't erase ID* or *erase ID.* After you press MODE to confirm, the normal display appears.

You can only exit Clear mode by pressing the MODE pushbutton for longer than 2 seconds. The normal display then appears.

Summer/winter time changeover: Press MODE and then press SET to search for the ***summer/winter time automatic*** **function.** Press MODE to select. Then press SET to select between *active* and *inactive.* If you select *active,* changeover is automatic.

Adapt internal sensor to ambient conditions: Press MODE and then press SET to search for the ***sensor adjustment*** **function.** Press MODE to select. Press SET in the ***temp. adjustment*** **function** to adapt temperature measurement between ±5.0 K in steps of 0.5 K.

After you press MODE to confirm, the normal display appears.

Switch on/off night-time reduction manually: Press MODE and SET together for 4 seconds. When ON, **C** appears in the display.

Switch off/on controller: Press MODE and SET together for 10 seconds. When OFF, **0** appears in the display.

Lock settings: Briefly press MODE and SET together and when lock appears, press SET. This is indicated by a lock icon in the display.

Unlock settings: Briefly press MODE and SET together and when unlock appears, press SET.

If **window/door contacts** were taught-in, the function is switched off as long as one or several windows are open. The message *FTK open* appears cyclically in the display.

Frost protection function active: As soon as the actual temperature drops below 8°C, the temperature is regulated to 8°C.

If a taught-in **external temperature sensor** sends no telegram for longer than 1 hour, control reverts to the internal sensor.

If you selected a controller mode with connected **floor-sensor (NTC),** it is monitored.

If a defect occurs, e.g. wire break, the function is switched off and the display shows the cyclical message *error floor-sensor.*

If the display is removed in operation, the device is switched off after max. 30 seconds.

FTAF55D ID and software: Press MODE and then press SET to search for **ID.** The ID and the software appear in the display.

It is more convenient to configure the FTAF55D (like FTAF65D) using the **PC Tool PCT14 (as of Version 8.1)** in conjunction with the DAT71 data transmitter.

The FTAF55D sends a message to the Eltako Wireless Building system every 50 seconds when the actual temperature changes by min. 0.3°C. A change in setpoint temperature is also sent within 50 seconds. If no change occurs, a status message is sent every 10 minutes. In addition, the device sends confirmation telegrams:
0x70 = on
0x50 = off

EnOcean wireless

Frequency	868.3 MHz
Transmit power	max. 10 mW

Hereby, Eltako GmbH declares that the radio equipment type FTAF55D/230V-wg is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: eltako.com

Must be kept for later use!

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06/2020 Subject to change without notice.