



Eltako FTAF55ED Wireless Temperature Controller Air and Floor Instruction Manual

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Eltako FTAF55ED Wireless Temperature Controller Air and Floor



Wireless sensor

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

- **The 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 33mm. 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 16A/250V AC. Power supply 230V. Only 0.4-watt standby loss. Smart Home sensor. For installation in 55mm 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 change over. 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 set-point 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 Sun-day 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 in active, the normal display appears.
- When you press MODE to confirm active, press SET to select between night-temp. (or night PWM), day-temp. (or day PWM) and free-temp. (or free PWM) and press MODE to confirm.
 - The night-temp. (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 weekdays. 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 \leq (set temperature – hysteresis)'. An H appears in the display.
- The function is switched off at 'actual temperature \geq 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 \geq (set temperature – hysteresis)'. An H appears in the display.
- The function is switched off at 'actual temperature \geq 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 \leq (set temperature – hysteresis)'. An H appears in the display.
- The function is switched off at 'actual temperature \geq 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 \leq (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 \geq 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 a 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 \leq (set temperature – hysteresis)'. An H appears in the display.
- The function is switched off at 'actual temperature \geq setpoint temperature' or when the max. floor temperature setting is reached.

The following sensors can be taught in the FTAF55ED:

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), FFG7B (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 canceled appears in the display and the display reverts to the normal display after 2 seconds.

- When you press MODE to confirm, wait for telegram appear 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 doesn'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.

FTAF55ED 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 FTA-F55ED (like FTAF65D) using the PC Tool PCT14 (as of Version 8.1) in conjunction with the DAT71 data transmitter. The FTAF55ED 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

http://eltako.com/redirect/FTAF55ED_230V-

Hereby, Eltako GmbH declares that the radio equipment type FTAF55ED/230V- 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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Documents / Resources

	Eltako FTAF55ED Wireless Temperature Controller Air and Floor [pdf] Instruction Manual FTAF55ED, Wireless Temperature Controller Air and Floor, FTAF55ED Wireless Temperature Controller Air and Floor, Temperature Controller Air and Floor, Controller Air and Floor
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References

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