

Wireless sensor



Wireless temperature controller  
FTR55HB

**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%.

Wireless temperature controller with hand wheel for single mounting 84x84x27 mm or mounting into the E-design switching system. With battery. The temperature controller can be taught-in in TF61R, FHK (wireless heating/cooling relay), and in the GFVS.

The temperature controller sends a message to the Eltako Wireless Building system when a change of min. 0.15°C occurs in the setpoint temperature within 60 seconds. If no change occurs, a status message is sent every 5 minutes.

A jumper defines the function mode. In the mode TF61 only ON or OFF are sent, in the mode FHK the measured and set temperature are sent.

Measurement accuracy is approx. 1°C.

The **reference temperature** that ranges from +12°C to +28°C is changed using the hand wheel.

In the ❄ position, the set temperature is 8°C (frost protection).

We recommend stainless-steel countersunk 2.9x25 mm, DIN 7982 C, for screw connections. Both with rawl plugs 5x25 mm and with 55 mm switch boxes.

Set of 2 stainless-steel countersunk screws 2.9x25 mm and plugs 5x25 mm are enclosed.

2 internal 3V CR1632 button cells are supplying the power for several years.

To replace the button cells, all you need

to do is remove the front panel and the rotary knob.

**Only install on a flat surface:**

Screw on mounting plate. Then snap on frame. Remove battery insulations, plug on rotary knob and snap on front panel.

**Select operating mode:**

In as-delivered state (the jumper is plugged on both pins of *Mode 1*), **operating mode FHK** is active.

When you plug the jumper on a pin of *Mode 1*, the system switches over to **TF61 mode**.

**Send teach-in telegram:**

To teach in the temperature controller to an actuator which is prepared for teach-in, remove the rotary knob and the front panel. Press briefly the LRN pushbutton which is then accessible.

After the temperature controller is taught in to a TF61R device, the teach-in mode ends and locks automatically.

**Unlock teach-in mode of TF61R with FTR55HB:**

1. Plug jumper on both pins of *Mode 2*.
2. Switch off/on power supply of TF61R.
3. Press briefly LRN pushbutton.
4. Remove jumper from *Mode 2* and replug it on pin of *Mode 1*.

Operating mode FHK: EEP: A5-10-06

Teach-in telegram: 0x40300D87

Data telegram:

Data\_byte0 = 0x0F

Data\_byte1 = Actual temperature

0xFF.0x00 corresponds 0..40°C

Data\_byte2 = reference temperature

0x00..0xFF corresponds 0..40°C

Operating mode TF61: EEP: A5-38-08

Teach-in telegram: 0xE0400D80

Data telegram: OFF = 0x01000008

ON = 0x01000009

Hysteresis: 1°

**The crossed-out waste container indicates that batteries may not be disposed with other household or commercial waste.**



**Attention: Danger of explosion if battery is replaced improperly. Only replace it by an equivalent type!**

**EnOcean wireless**

Frequency 868.3 MHz

Transmit power max. 10 mW

**Hereby, Eltako GmbH declares that the radio equipment type FTR55HB 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](http://eltako.com)**

**Must be kept for later use!**

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