

Tap-radio®-temperature sensor



TF-TRHB

Temperature at mounting location:

-20°C up to +50°C.

Storage temperature: -25°C up to +70°C.

Relative humidity:

annual average value &lt;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 into the relay actuator TF61R, the heating cooling actuator FHK and into the GFVS software.

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

In the position ❄ the temperature control is off and the frost protection function activated.

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.

An internal 3 V button cell CR2032 assumes the power supply for several years.

To replace the button cell, 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 insulation, plug on rotary knob and snap on front panel.

### Select operating mode:

In as-delivered state (the jumper is plugged on a pin of *Mode1*), **operating mode TF61** is active.

When you plug the jumper on both pins of *Mode1*, the system switches over to **FHK 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 TF-TRHB:

1. Plug jumper on both pins of *Mode2*.
2. Switch off/on power supply of TF61R.
3. Press briefly LRN pushbutton.
4. Remove jumper from *Mode2* and replug it on pin of *Mode1*.

Operating mode TF61: EEP: A5-38-08

Teach-in telegram: 0xE0400D80

Data telegram: OFF = 0x01000008

ON = 0x01000009

Hysteresis: 1°

Operating mode FHK: EEP: A5-10-06

Teach-in telegram: 0x40300D87

Data\_byte2 = reference temperature 12°C to 28°C, frost symbol = 8°C

Data\_byte1 = actual temperature 0 to 40°C.

**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 TF-TRHB 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!**

### Eltako GmbH

D-70736 Fellbach

#### Technical Support English:

☎ Michael Thünte +49 176 13582514

✉ [thuente@eltako.de](mailto:thuente@eltako.de)

☎ Marc Peter +49 173 3180368

✉ [marc.peter@eltako.de](mailto:marc.peter@eltako.de)

[eltako.com](http://eltako.com)