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### Wireless sensor

### Wireless temperature sensor FTR55ESB-

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

**valid for devices from production week  
50/18** (see bottom side of housing)


### Wireless temperature controller for single mounting 80x80x27 mm or mounting into the E-Design55 switching system. With solar cells and battery (lifetime 5 years). Smart Home sensor.

The temperature controller can be taught in  
in the actuators heating/cooling relay FHK  
or FR62 and Professional Smart Home  
controllers.

The temperature controller sends a message to  
the Eltako Wireless Building system when a  
change of min. 0.15°C occurs in the actual  
or 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 TF 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  
2.9x25mm, 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 5x25mm are enclosed.  
2 internal 3V CR1632 button cells are supplying  
the power 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 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 **TF 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 FR62 device, the teach-in  
mode ends and locks automatically.  
**Unlock teach-in mode of FR62 with  
FTR55ESB-:**  
1. Plug jumper on both pins of *Mode 2*.  
2. Switch off/on power supply of FR62.  
3. Press briefly LRN pushbutton.  
4. Remove jumper from *Mode 2* and re-  
plug it on pin of *Mode 1*.

Operating mode TF: 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!**

#### Manuals and Documents in further Languages



<http://eltako.com/redirect/FTR55ESB->



**enocean®**  
THE UNIQUE WIRELESS **PROFESSIONAL  
SMART HOME STANDARD**

|                |            |
|----------------|------------|
| Frequency      | 868.3 MHz  |
| Transmit power | max. 10 mW |

**Hereby, Eltako GmbH declares that the radio  
equipment type FTR55ESB- is in com-  
pliance 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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