



Tap-radio®

Air quality+temperature+humidity
sensor TF-LGTFTemperature at mounting location:
-20°C up to +50°C.

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

Relative humidity:
annual average value <75%.

Wireless air quality+temperature +humidity sensor, pure white, glossy, for separate installation 84x84x17/33mm or installation in the E-Design switching system. With LED display to signal room air quality. With additional alert tone. Power supply 230V. Stand-by loss only 0.6 watt. Smart Home sensor.

The sensor measures all total volatile organic compounds (TVOC) in the air, temperature from -20°C to +60°C and humidity from 0 to 100%.

Every change in TVOC value or a change of 5% in humidity or a change in temperature by 0.6° is signalled by wireless telegram to the Eltako wireless network within 30 seconds. If there is no change, a status telegram is sent every 10 minutes.

Installation in a 55 mm switch box: Screw on the mounting plate. Snap on the frame and plug in the front panel including the electronics. 230V power supply wired to the terminals at the rear.

We recommend stainless steel countersunk head screws 2.9x25 mm, DIN 7982 C for screw connections. Either with rawl plugs 5x25 mm or on 55 mm switch boxes. Set of 2 stainless steel countersunk head screws 2.9x25 mm and 2 rawl plugs 5x25 mm is enclosed.

After switching on the power supply, 5 beeps sound and the LED first lights up green. After a few minutes, the LED colour changes depending on the room air quality:

The LED **shines green** up to 220 ppb (< 1mg/m³) = **good room air quality**.

The LED **shines yellow** from 221 ppb to 660 ppb = **medium room air quality**.

We advise occasional airing.

The LED **flashes red** as of 661 ppb (> 3mg/m³). Every 3 minutes, a **5-fold alert tone sounds = poor room air quality. Prolonged airing required.**

After switching on the power supply, teach-in telegrams with two different IDs are sent, one for the TVOC sensor followed by one for the temperature/humidity sensor.

The LED indicates that a telegram is sent by flashing once.

The actual temperature is only measured approx. 30 minutes after the power supply is switched on while the electronics undergo temperature compensation.

Self-calibration:

Please note that the TVOC sensor was designed for applications where rooms are left unoccupied periodically for several hours a day so that room concentrations can drop to typical outside levels. When a TVOC sensor is installed, the first 2 days in service are used for self-calibration to the ambient environment.

Switch off alert tone:

1. Extract the front panel and electronics to the front out of the frame.
2. Plug the jumper onto one pin on the electronics.
3. Plug in the front panel and the electronics.

Wireless telegrams:

TVOC data telegram acc. to EEP:
A5-09-0C

Data_byte3 + Data_byte2 = 0 to
65535ppb equivalent to 0x00 to 0xFF

Data_byte1 = -

Data_byte0 = 0x0A

Teach-in telegram: 0x24600D80

Temperature/humidity data telegram
acc. to EEP: A5-04-02

Data_byte3 = -

Data_byte2 = relative humidity 0 to

100% equivalent to 0x00 to 0xFA

Data_byte1 = actual temperature -20°C

to +60°C equivalent to 0x00 to 0xFA

Data_byte0 = 0x0F

Teach-in telegram: 0x10100D87

EnOcean wireless


Frequency	868,3 MHz
Transmit power	max. 10 mW


Hereby, Eltako GmbH declares that the radio equipment type TF-LGTF 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!**Eltako GmbH**

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