



Tap-radio®
Air quality+temperature+humidity
sensor TF-LGTF

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
08/20** (see bottom side of housing)

Wireless air quality+temperature +humidity
sensor, pure white, glossy, for separate
installation 84x84x17/33 mm 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 tem-
perature 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 counter-
sunk 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 400ppb

(< 1mg/m³) = **good room air quality**.
The LED **shines yellow** from 400ppb to
1300ppb = **medium room air quality**.
We advise occasional airing.
The LED **flashes red** as of 1300ppb
(> 10mg/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 sup-
ply 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 con-
centrations 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 environ-
ment.

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	868,3MHz
Transmit power	max. 10mW

**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

D-70736 Fellbach
Technical Support English:
☎ Michael Thünte +49 176 13582514
✉ thuente@eltako.de
☎ Marc Peter +49 173 3180368
✉ marc.peter@eltako.de
eltako.com