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Wireless air quality+temperature+humidity sensor

FLGTF55

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 80x80x17/33 mm or mounting into the E-Design55 switching system. With LED display to signal room air quality. With additional alert tone. Power supply 230 V. 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. 230 V power supply wired to the terminals at the rear.

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 400 ppb (<1mg/m³) = **good room air quality**.
The LED **shines yellow** from 400 ppb to 1300 ppb = **medium room air quality**.
We advise occasional airing.

The LED **flashes red** as of 1300 ppb (>10 mg/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 65535 ppb 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



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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 FLGTF55 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!

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