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Wireless air quality desktop sensor + temperature and humidity

FLT58-

Temperature 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 desktop sensor + temperature and humidity, 58x58x58 mm. With LED display to signal room air quality. Additionally with a warning signal from level red. Power supply with the included power supply unit with USB-C connector. Stand-by loss only 0,1 watt. Smart Home sensor.

The sensor measures all volatile organic compounds (VOC) in the air and assigns them to a VOC index. The VOC index indicates the extent to which the indoor air quality has deteriorated or improved compared to the average VOC environment of the sensor. The temperature from -20°C to +60°C and the humidity from 0 to 100% are also measured. Every change in VOC 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.

The plug-in power supply is plugged into the USB-C socket *IN* with the USB-C plug.

A device with a USB-C plug can be connected to the USB-C socket *OUT*.

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 = good room air quality.

The LED shines yellow = medium room air quality. We advise occasional airing.

The LED flashes red and in addition, a 5-time warning signal tone sounds every 3 minutes = **poor room air quality. Prolonged airing required.**

The limit values of the LED display can be selected in 3 levels:

Level 1: The LED lights up green up to VOC index 200, yellow from 201 and red from 351.

Level 2: The LED lights up green up to VOC index 250, yellow from 251 and red from 401 (delivery status).

Level 3: The LED lights up green up to VOC index 300, yellow from 301 and red from 451.

Self-calibration:

Please note that the VOC 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 VOC sensor is installed, the first 2 days in service are used for self-calibration to the ambient environment.

Due to the adaptation of the sensor to the environment, the correct temperature and humidity are only measured correctly approx. 30 minutes after the supply voltage has been applied.

Settings:

Hold down the *MODE/LRN* button on the rear, after 1 second the LED lights up blue.

Immediately release the button after making the desired selection.

Blue LED flashes 1x = level 1

Blue LED flashes 2x = level 2 (delivery status)

Blue LED flashes 3x = level 3

Blue LED flashes 4x = acoustic signal off

Blue LED flashes 5x = acoustic signal on (delivery status)

Send teach-in telegrams:

Briefly press the *MODE/LRN* button on the rear (<1s)

The teach-in telegrams for the VOC sensor and then for the temperature / humidity sensor are sent with two different IDs.

The two data telegrams are then sent.

The sending of the telegrams is indicated by the LED flashing once.

Wireless telegrams:

VOC data telegram acc. to EEP A5-09-05

Data_byte3 + Data_byte2 = 0..500

Data_byte1 = 0x1B

Data_byte0 = 0x0A

Teach-in telegram: 0x24280D80

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

Data_byte3 = -

Data_byte2 = relative humidity 0..100% equivalent to 0x00.. 0xFA

Data_byte1 = actual temperature -20°C..+60°C equivalent to 0x00.. 0xFA

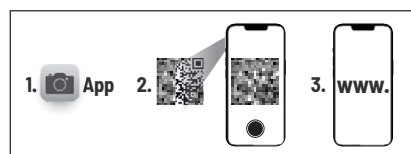
Data_byte0 = 0x0F

Teach-in telegram: 0x10100D87

Manuals and Documents in further Languages



<http://eltako.com/redirect/FLT58->



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 FLT58- 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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