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Wireless sensor

CO₂ desktop sensor FC02TS

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

Wireless CO₂ desktop sensor temperature+ humidity sensor and signal.

Dimensions: 85x85x65 mm.

With slip-resistant plastic feet.

With controlled LED display according to the ambient air quality and brightness.

Additionally with warning signal at level red.

Standby loss only 0.4 watts on average.

Power supply with enclosed plug-in power supply with 200 cm connection cable.

The sensor measures the CO₂ content of the air up to 2550ppm, as well as the temperature 0 to 51°C and humidity 0 to 100%.

For CO₂ measurement, the NDIR technology (Non Dispersive InfraRed) is used with automatic self-calibration ABCLogic™ (Automatic Background Calibration).

After switching on the supply voltage, a 5 times warning signal tone sounds and after approx. 10 seconds the LED initially flashes red. Within 2 minutes the color of the LED may change potentially according to the indoor air quality: lights green up to 750 ppm, lights yellow from 751 to 1250 ppm and flashes red from 1251 ppm.

The LED flashes red excitedly with a defective CO₂ sensor.

In operation a warning signal at level red sounds every 3 minutes for 5 times.

A light sensor adjusts the brightness of the LED dependent on the ambient brightness.

After connecting of the power supply a teach-in telegram is sent, then at a change of at least 5% the data telegrams will be sent within 60 seconds.

If nothing changed a status telegram is sent after 10 minutes. The sending of the telegrams is displayed by one flashing of the LED. The correct actual temperature is measured only about 30 minutes after connecting

the supply voltage due to the temperature compensation of the electronics.

Use of ABCLogic™

Please note that ABCLogic™ has been designed for applications where rooms are periodically unoccupied for 4 or more hours per day, so that the indoor concentrations may fall to typical outdoor levels. If the CO₂ sensor is installed, the first 14 operation days of the sensor serve for self-calibration to local environments.

Wireless telegrams according to EEP A5-09-04:

ORG = 0x07

Data_byte3 = Humidity 0..100% (0..200)

Data_byte2 = CO₂ value 0..2550ppm (0..255)

Data_byte1 = Temperature 0..51°C (0..255)

Teach-in telegram: 0x24200D80



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 FC02TS 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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46/2020 Subject to change without notice.