



Wireless sensor

CO₂ sensor FCO2TF63

CO₂ sensor FCO2TF63S

Only skilled electricians may install this electrical equipment otherwise there is the risk of fire or electric shock!

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 indoor CO₂+temperature+humidity sensor for surface mounting and integration in the 55x55mm and 63x63mm switch system. With controlled LED display according to the ambient air quality and brightness. Standby loss only 0.4 watts on average. Power supply with a 12V DC power supply unit.

The scope of supply includes a frame in Q-Design QRR1, an attachment frame and a mounting plate HP. Designed to fit in the recesses of 55 and 63 frames additionally with one intermediate frame ZR in the same color.

We recommend sheet metal countersunk screws 2.9x25mm, DIN 7982 C, for screw connections on 55mm switch boxes.

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).

Supply voltage 12V DC with a switching power supply unit FSNT61-12V/6W. Pulsed power consumption every 3 seconds for 1 second 80mA.

Approx. 10 seconds after the supply voltage, the LED flashes red. Within 2 minutes the color of the LED may

change potentially according to the indoor air quality: lights green up to 750ppm, lights yellow from 751 to 1250ppm and flashes red from 1251ppm. The LED flashes red excitedly with a defective CO₂ sensor.

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.

FCO2TF63S:

In addition, every 3 minutes 5 signal alerts starting from red level.

Must be kept for later use!

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