LoRaWan® Indoor Environmental Sensor Voc / Lux /Co2 with leds

This device reads temperature, humidity, pressure, light intensity, air quality (expressed as IAQ or bVOC value) and CO2 and sends collected data over the LoRaWAN® network. 3 traffic light LEDs for air quality display with adjustable brightness. Ideally suited for a wide range of applications such as building automation, condition monitoring, predictive maintenance, security, healthcare and many more use cases.

Temperature	Humidity	Pressure	Air Quality	Light	CO2

Applications

- Schools, universities, kindergartens
- Public and private offices
- Meeting rooms
- Hospitals
- Waiting rooms
- House of worship
- Museums and exhibitions

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- CO2
- VOC (Volatile Organic Compound)
- Pressure
- Temperature
- Light
- Humidity

Specifications

- Cortex M0 + CPU
- EEProm 32Kb
- 64k flash
- AES 128 bit encryption
- LoRaWAN® stack class A 1.0.2 EU868, AS923, AU915 and US915
- Temperature -10 ÷ 6t0 ° C (± 0.5°C)
- Humidity 0 ÷ 100% (20 ÷ 80% ± 3% @ 25°C, 0 ÷ 20% - 80 ÷ 100% ± 5% @ 25°C)
- Pressure 300 ÷ 1100hPa (± 1hPa)
- Light sensor 0.01 ÷ 80000 lux (± 15%)
- IAQ index 0 ÷ 500
- bVOC 500ppb ÷ 16'700ppm (sensor to sensor deviation ± 15%)
- CO2 300 ÷ 5000 ppm (± 50ppm ± 3% of reading)
- 3 traffic light LEDs for air quality display (CO2, bVOC or both) with adjustable brightness
- 4 configurable thresholds for LEDs driving and real time measurement message

- Battery powered with 4 years of battery life (SF = 12, 10 minutes reading period)
- Battery capacity (included) 21600mAh
- NFC for node configuration, FW update and data reading
- Indoor installation
- Storage temperature -20 + 80°C
- Operating temperature -10 + 60°C
- Dimensions: 120x80x25mm
- Weight ~ 225g

MCF-LW12CO2E

LoRaWan® Indoor Environmental Sensor Voc / Lux /Co2 with leds

Intuitive

LED lights indicate the air quality

Reliable

Battery life (21600mAh) up to **8 years***

*> 4 years with SF = 12 with one measure every 10 minutes

Customizable

- **Programmable thresholds** via app or remote
- LEDs for levels indication of **CO2, VOC or both**
- LEDs **brightness adjustable** on two levels or **disabled**

The advanced multi-sensor that improves your indoor environment

CO^2