

MCF-LW12C02E

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.









*> 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



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INTUITIVE LED LIGHTS indicate the air quality

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The advanced multi-sensor that improves your indoor environment.

Applications

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



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 ÷ 60 ° C (± 1.0°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 ÷ 16700ppm (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-IW12CO2E official web page





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