

## 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.













Liaht

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

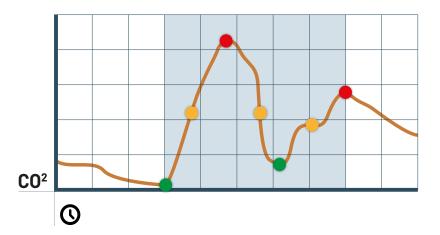


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# The advanced multi-sensor that improves your indoor environment.

#### **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  $\div$  60 ° C ( $\pm$  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  $\div$  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



cod. EN013W02

