



MCF- LW12CO2E

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

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

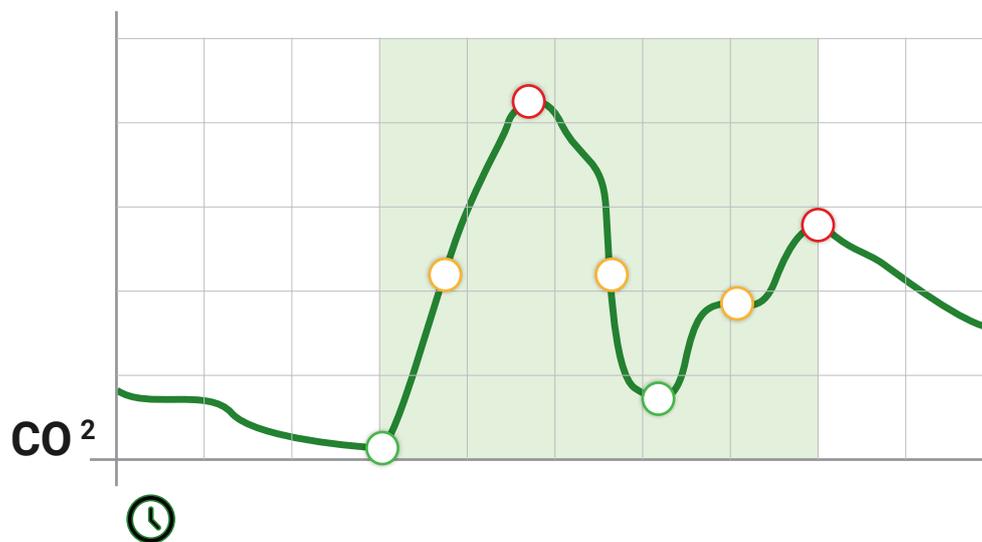


INTUITIVE LED LIGHTS
indicate the air quality

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