



MCF-LW12CO2

LoRaWAN® indoor environmental sensor with VOC, LUX and CO2

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. Ideally suited for a wide range of applications such as building automation, condition monitoring, predictive maintenance, security, healthcare and many more use cases.

Characteristics:

- CPU Cortex M0+
- EEPROM 32Kb
- Flash 64k
- Encryption AES 128 bit
- Class A LoRaWAN® stack EU868, AS923, AU915, US915 EU868, AS923
- Temperature $-10 \div 60 \text{ }^{\circ}\text{C}$ ($\pm 0.5^{\circ}\text{C}$)
- Humidity $0 \div 100\%$ ($20 \div 80\% \pm 3\%$ @ 25°C , $0 \div 20\% - 80 \div 100\% \pm 5\%$ @ 25°C)
- Pressure $300 \div 1100\text{hPa}$ ($\pm 1\text{hPa}$)
- Ambient Light Sensor $0.01 \div 80000 \text{ lux}$ ($\pm 15\%$)
- IAQ index $0 \div 500$
- bVOC $500 \div 50'000\text{ppb}$ (sensor to sensor deviation $\pm 15\%$)
- CO2 $300 \div 5000 \text{ ppm}$ ($\pm 50\text{ppm} \pm 3\%$ of reading)
- Battery powered with 5 years of life (according radio propagation effectiveness and 15 min reading period)
- NFC for IoT node setup, FW upgrade and data reading
- Installation indoor
- Storage temperature range $-20 + 80\text{C}^{\circ}$
- Working temperature range $-10 + 60\text{C}$
- Dimensions: $120 \times 80 \times 25\text{mm}$
- Weight $\sim 225\text{g}$

Applications:

- Home Building automation
- Energy saving
- Environmental quality control

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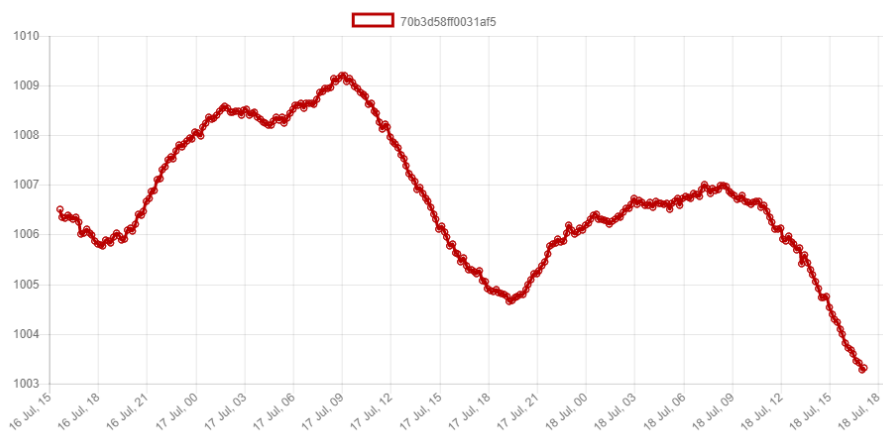
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Grafico

Temperatura



Pressione



Umidità

