



## MCF-LW12VOC

**LoRaWAN<sup>®</sup> indoor environmental sensor with VOC and LUX.**

This device reads temperature, humidity, pressure, light intensity and air quality (expressed as IAQ or bVOC value) and sends collected data over the LoRaWAN<sup>®</sup> 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<sup>®</sup> stack EU868, AS923
- Temperature  $-10 \div 60 \text{ }^{\circ}\text{C}$  ( $\pm 0.5^{\circ}\text{C}$ )
- Humidity  $0 \div 100\%$  ( $20 \div 80\% \pm 3\%$  @ $25^{\circ}\text{C}$ ,  $0 \div 20\% - 80 \div 100\% \pm 5\%$  @ $25^{\circ}\text{C}$ )
- 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  $\pm 15\%$ )
- Battery powered with 4.5 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:  $80 \times 80 \times 25\text{mm}$
- Weight  $\sim 145\text{g}$

### Applications:

- Home Building automation
- Energy saving
- Environmental quality control

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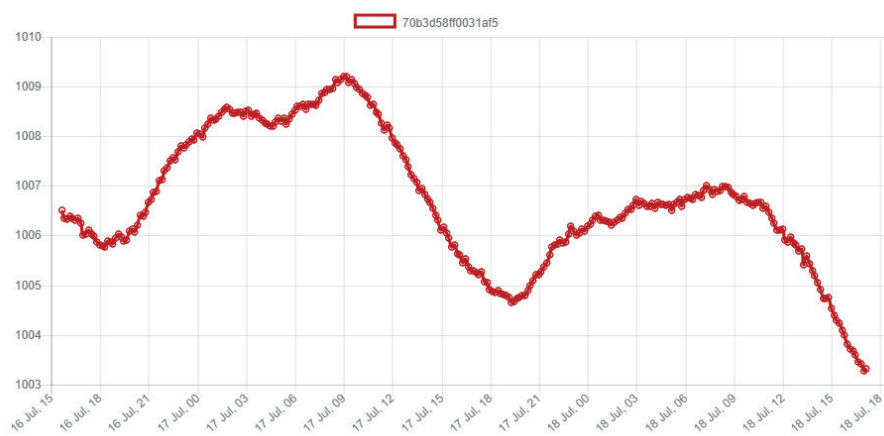
LoRaWAN® indoor environmental sensor with VOC and LUX.

## Grafico

### Temperatura



### Pressione



### Umidità

