



MCF-LW12VOC

LoRaWAN® 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® 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
- 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 $\pm 15\%$)
- 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:

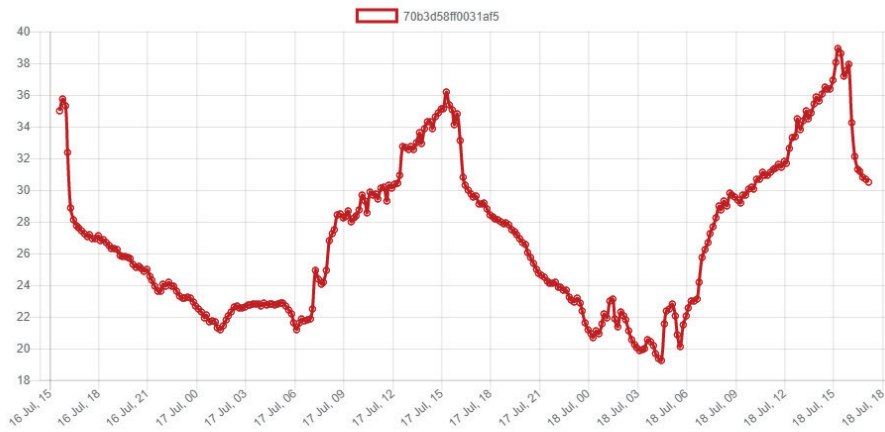
- Home Building automation
- Energy saving
- Environmental quality control

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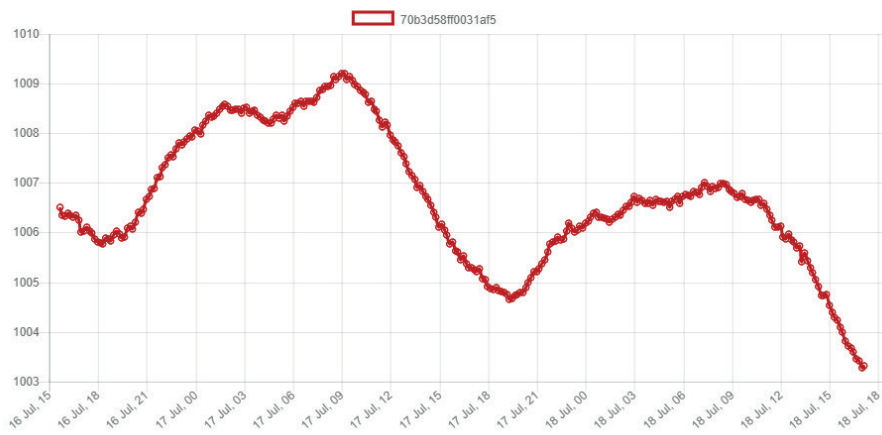
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Grafico

Temperatura



Pressione



Umidità

