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.

LoRa Alliance Certified™

Characteristics:

- CPU Cortex M0+
- EEProm 32Kb
- Flash 64k
- Encryption AES 128 bit
- Class A LoRaWAN™ stack EU868, AS923
- Temperature -10 ÷ 60 °C (±0.5°C)
- Humidity 0 ÷ 100% (20 ÷ 80% ±3% @25°C, 0 ÷ 20% - 80 ÷ 100% ±5% @25°C)
- Pressure 300 ÷ 1100hPa (±1hPa)
- Ambient Light Sensor 0.01 ÷ 80000 lux (±15%)
- IAQ index 0 ÷ 500
- bVOC 500 ÷ 50'000ppb (sensor to sensor deviation ±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 + 80C°
- Working temperature range -10 + 60C
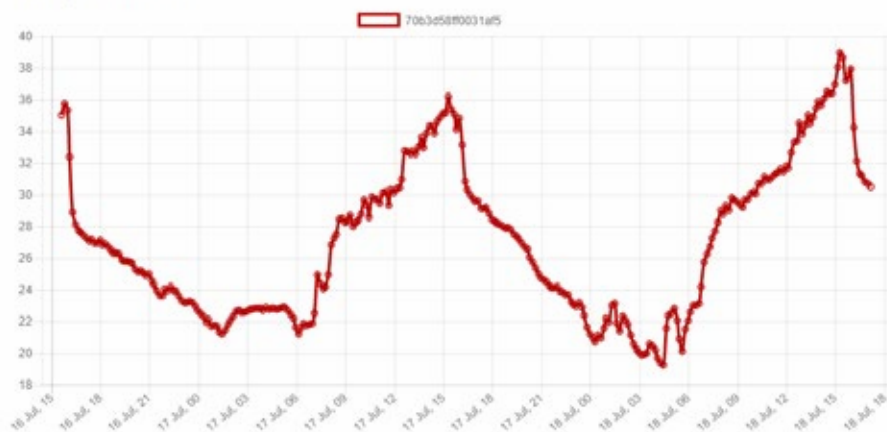- Dimensions: 80x80x25mm
- Weight ~145g

Applications:

- Home Building automation
- Energy saving
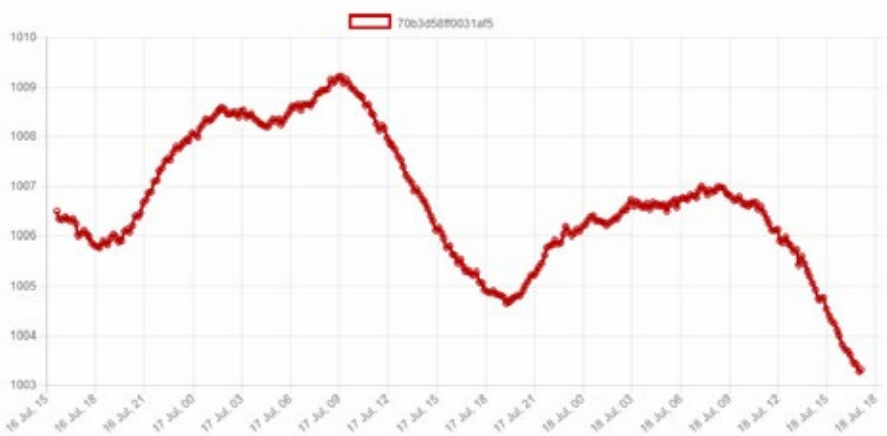- Enviromental quality control

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Grafico

Temperatura

Pressione

Umidità