MCF-LW12CO2

LoRaWAN™ indoor environmental sensor with VOC, LUX and CO2

This device reads temperature, humidity, pressure, light intensity, VOC 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 @868Mhz   @920Mhz (SIN, HKG...)
- 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%)
- TVOC 0 ÷ 2000ppb (±15%)
- CO2 300 ÷ 5000 ppm (±50ppm ±3% of reading)
- Battery powered with 5 years of life (according radio propagation effectiveness and 10 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: 120x80x25mm
- Weight ~225g

Applications:

- Home Building automation
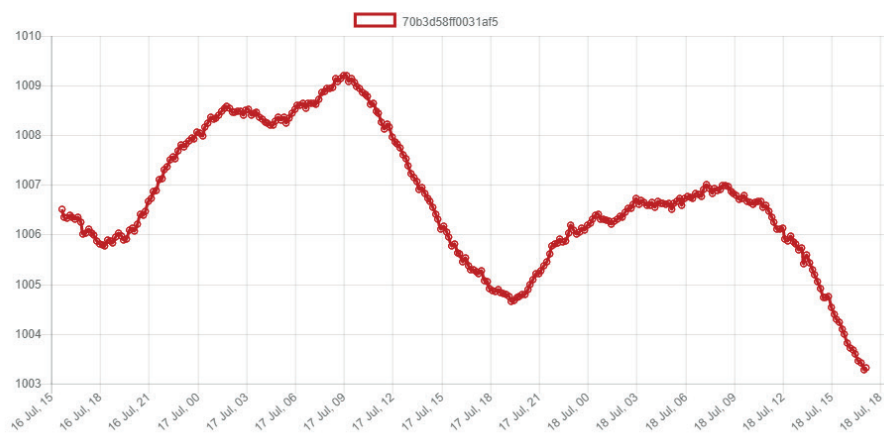- Energy saving
- Enviromental quality control

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Grafico

Temperatura

Pressione

Umidità