engineering empowerment
enginko®

MCF-LW12TERPM

LoRaWAN®
Outdoor Environmental Sensor
PM1 PM2.5 PM10

This solar powered sensor reads temperature, humidity, pressure and PM (PM1, PM2.5, PM10) and sends collected data over the LoRaWAN® network. Ideally suited for a wide range of applications such as weather stations, urban monitoring, air quality, industrial, environmental or farming projects.

Temperature | Humidity | Pressure | PM 1.0-2.5-10 | Solar Panel | Rechargeable Battery

Simple
Easy installation and set-up.

Smart
Ideal for smart cities. With **fine dust** sensor to measure air quality.

Flexible
All functions can be **configured remotely**, as well as via NFC with the App.

AUTONOMOUS. With solar panel and rechargeable battery.
Up to 1 month of autonomy in no light. Backup battery as default.

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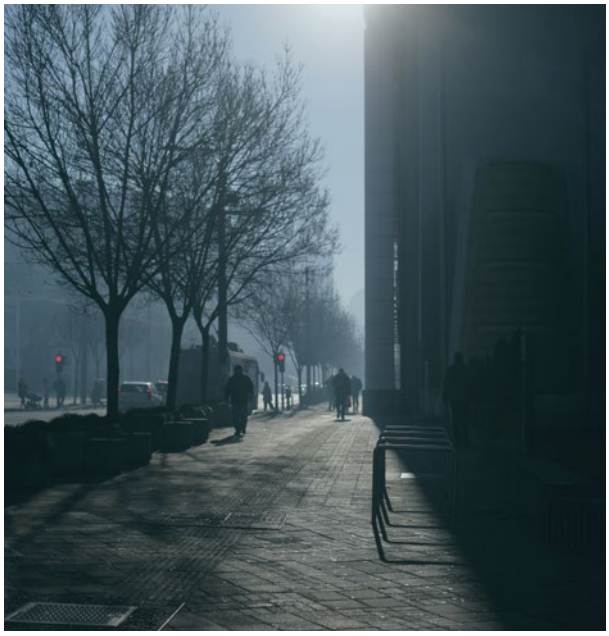

Applications

- Smart Agriculture
- Smart City
- Weather Station

Specifications

- CPU Cortex M0+
- EEProm 32Kb
- Flash 64k
- Encryption AES 128 bit
- Class A LoRaWAN® stack EU868, AS923, AU915, US915
- Pressure 300 ÷ 1100hPa (±1.0hPa)
- Temperature -10 ÷ 60°C (0 ÷ 60°C ±1.0°C)
- PM1\PM2.5 ±10 µg/m3 (0 to 100 µg/m3) or ±10% (100 to 1000 µg/m3); PM10 ±25 µg/m3 (0 to 100 µg/m3) or ±25% (100 to 1000 µg/m3)
- Humidity 0% ÷ 95% (20% ÷ 80% ±3% @25°C, 0% ÷ 20%-80% ÷ 95%@ 25°C ±5%)
- NFC for IoT node setup, FW upgrade and data reading
- Wall or pole mounting
- Storage temperature range -30 + 80°C
- Working temperature range -10 + 60°C
- Protection class IP33
- Dimensions (approx) LxHxP: 210x310x200mm

MCF-LW12TERPM
official web page:

cod. EN013W01

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