ATRS0052

LoRaWAN® outdoor PM and environmental sensor

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.

Characteristics:

- CPU Cortex M0+
- EEProm 32Kb
- Flash 64k
- Encryption AES 128 bit
- Class A LoRaWAN® stack EU868, AS923, AU915, US915 EU868, AS923, AU915, US915
- Pressure 300 ÷ 1100hPa (±1.0hPa)
- Temperature -10 ÷ 60°C (0 ÷ 60°C ±1.0°C)
- PM1\PM2.5 ±10 micro g/m3 (0 to 100 micro g/m3) or±10% (100 to 1000 micro g/m3); PM10 ±25 micro g/m3 (0 to 100 micro g/m3) or±25% (100 to 1000 micro g/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) L x H X P: 210 x 310 x 200mm

Applications:

- Weather Station
- Smart city
- Smart agriculture