

PMo

Outdoor Air Quality Monitoring

Particulate Matter, Temperature, Humidity, Atmospheric Pressure

Sigfox, LoRaWan, EnOcean



PMo is a connected micro-station measuring Outdoor Air Quality. Thanks to its various power and assembly solutions, PMo can be installed in many environments. Its backup battery, built-in GPS and remote diagnostic functions make deployment simple and fast.

Product highlights

- Performance validated by independent institutional players
- AC or solar panel powered
- Built-in backup battery
- Simplified deployment thanks to its GPS and its self-diagnosis functions
- Anti-theft and anti-fall alarm thanks to the integrated accelerometer

Applications

- Measurement of ultra-localized air quality in cities
- Monitoring fine particulate matter pollution on industrial sites
- Monitoring of air quality at worksites

Functions

- Measurements of particulate matter, temperature, relative humidity and atmospheric pressure
- Built-in GPS positioning
- Advanced remote diagnosis (installation, power, sensors status, etc.)

Characteristics

Fine particules: PM1 / PM10

Resolution: 0.1g/m³
Accuracy: ±25% (typ.)
Measurement range: 0 - 1000 g/m³

Fine particles: PM2.5

Resolution: 0.1g/m³
Accuracy: ±10% (typ.)
Measurement range: 0 - 1000 g/m³

Temperature

Resolution: 0.1°C
Accuracy: ±0.3°C (typ.)
Measurement range: -30°C / 70°C

Humidity

Resolution: 1% R.H
Precision: ±2% R.H (typ.)
Measurement range: 0 - 100% R.H.

Atmospheric pressure

Resolution: 1 hPa
Precision: ± 1 hPa
Measurement range: 300 – 1200 hPa

Frequency of transmission of measurements

Every 15 minutes

Hardware user interface

1x blue LED and buzzer for operating status

Power supply

- AC Power (100 ~ 240 VAC) + rechargeable backup battery
- Solar Panel + rechargeable backup battery
- Backup battery autonomy: 5 days

Dimensions

Micro-station: 280 x 200 x 65 mm
Solar panel: 520 x 320 x 40 mm

Weight

Micro-station: 2.7 kg
Solar panel: 2.2 kg
Solar panel support: 2.8 kg

Operating conditions

Outdoor environment: IP53
Temperature: -10°C to 70°C
Humidity: 0% RH to 95%RH

Mounting

Wall or Pole mounting
Attachments and mounting material included

Connectivity

- EnOcean
- Sigfox
- LoRaWan

Geographic area: Europe (868 MHz)

PRODUCT REFERENCES

Sigfox

I950SF_AC: AC Power
I950SF_PV: Solar Panel Power

LoRaWan

I950LR_AC: AC Power
I950LR_PV: Solar Panel Power

EnOcean

I950EO_AC: AC Power
I950EO_PV: Solar Panel Power

Certification

CE

