



PMSCAN

Portable Solution for Personal Exposure Monitoring - PM1 | PM2.5 | PM10



The PMSCAN device is a compact and portable solution for personal exposure monitoring to fine Particulate Matter (PM1, PM2.5, PM10). Embedding the NextPM sensor, it delivers real-time air quality data with high accuracy, even in challenging environments. Designed for worker safety, citizen science, mobility studies, and public health assessments, it provides a reliable tool for tracking individual exposure to air pollution in everyday settings.

Key Features

- Bluetooth
- NextPM inside
- Internal memory
- Free iOS, Android app
- >15 hours battery life
- No subscription costs

Typical Applications

- Urban air quality
- Indoor air quality monitoring
- Industrial health & safety
- Construction
- Breathing apparatus
- Environmental
- Fence line
- Fugitive emissions

Technical Specifications & Performance

Technology	Optical
Targeted pollutants	Particulate Matter
Particle size detection range	0.3 to 10 μm diameter
Concentration detection range / PM1, PM2.5 & PM10	<1,000 $\mu\text{g}/\text{m}^3$ (Arizona dust AI equivalent)
Detection limit	<1 $\mu\text{g}/\text{m}^3$ (Arizona dust AI equivalent)
Moving average	10 / 60 / 900 seconds
Measure / transmission frequency	1 second to 5 minutes
Repeatability error	<3% (Calculated with 15 min moving average output)
Detection efficiency with 0.3 μm diameter particles	>50%

Electrical Specification

Power	USB-C 5 V (+/-10%) – 1 A Do not apply voltage over 13 V at the risk of destroying the sensor
Battery life in normal mode	15 hours
Battery life in eco mode	>20 hours

Other

Communication	Low consumption radio communication
Dimensions and weight	L 76 x W 36 x H 88 mm / 210 g
Internal memory	Data acquisition 6145 points (total duration depending on frequency)



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