

XPP

Personal Dust Monitor

- Laser Scattering – PM1.0, PM2.5, Respirable, PM10
- Monitor Inhalable and respirable particles
- TWA8h and STEL monitoring function
- Full Colour Display
- 13 Hours Runtime Time (typical)
- 18 Hours Run Time Power Saving Mode
- 16 GB datalog SD Card storage
- Light Weight ~ 260 grams
- 120 X 74 X 32 mm
- On-board Webserver (no APP needed)
- 2 years of local datalogging
- 240 MHz CPU
- Ultra-low acoustic emission



APPLICATIONS

- Mining
- Earth Moving
- Concreate Plants
- Construction sites
- Roadside monitoring
- Large area monitoring projects

OVERVIEW

The XPP personal dust monitor is a real-time device that continuously measures airborne dust exposure in occupational environments. It is primarily used to assess workplace dust levels and safeguard worker health.

The XPP detects key particulate fractions simultaneously: PM1.0, PM2.5, Respirable, and PM10. Compact and wearable, the clip-on personal monitor is suitable for all-day use on site. It includes a colour display for live readings and exposure information, and provides a large onboard data logging capacity.

The XPP includes functions such as Time Weighted Average (TWA) and Short-Term Exposure Limit (STEL) for occupational hygiene assessments. Built-in Wi-Fi and a web server enable wireless data downloads (CSV) and setup from phones or laptops. Optional cloud support allows remote access and data aggregation (via firmware/cloud subscription).

An internal rechargeable battery provides over 12 hours of typical runtime, extended to approximately 18 hours in power-saving mode.

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Power	Lithium Ion Battery 3.7V
Charger	5V 1AMP
Operating Temperature	0oC to 60oC
Operating Humidity	0-95% non-condensing

Laser Sensor Specification

Measured particle size	0.3µm - 10µm
Measurement range	0-5000µm/m³
Sensor accuracy reference	GRIMM, 25+2oC @ 50+10%RH)
PM1.0/PM2.5	0~35µg/m³ : ±5µg/m³ , 35ug/m³~500µg/m³ : ±15% of reading
PM10/Respirable	0~100µg/m³ : ±25µg/m³ , 101~500µg/m³: ±25% of reading
Reference dust	Arizona A1
Sampling method	Fan Driven
Acoustic emission level (.2m)	25 dB(A)

Run time	13 hours typical
CPU	240 Mhz
Wi-Fi	802.11 b/g/n
Memory capacity	16 GB SD Card + 4 GB internal
Display	2.4 inch TFT display
Datalog file format	CSV
Datalog file grouping	Daily
Datalog retrieval	Webserver - Smart Device or PC
Noise @ 1 Meter	25 dB (A) Max



XPP DUST MONITOR 5 INSTRUMENT KIT

Hard Carrying Case
100 Watt Charger 5 USB C cable

ENCLOSURE DIMENSIONS

