

AirMetER-DX MULTIPLE FRACTION PARTICLE MONITOR

LOW-MAINTENANCE MULTIPLE FRACTION DUST MONITOR FOR OUTDOOR AIR QUALITY MONITORING APPLICATIONS

The AirMetER-DX is an economical, low maintenance, laser-based particle monitor engineered for reliable particulate matter measurement across a range of environments. Designed for continuous monitoring, it delivers accurate data to support compliance, operational insight, and informed decision making.

Certified Australian Made, the AirMetER-DX offers simultaneous monitoring and recording of $PM_{1,}$ $PM_{2.5,}$ $PM_{4.25,}$ PM_{10} and TSP, offering comprehensive visibility across key particulate fractions including respirable dust. Built for durability, the AirMetER-DX is housed in a weather resistant enclosure, making it ideally suited for 24/7 outdoor deployment in varying environmental conditions.

In addition to particulate monitoring, the AirMetER-DX supports integration with a wide range of external sensors and monitoring devices, including fixed gas transmitters, soil moisture probes, black globe temperature sensors, weather stations, noise and vibration monitors. High resolution datalogging at one minute intervals is supported, with both local and cloud based storage ensuring data integrity and long term availability for more than seven years.



FEATURES & OPTIONS



Robust Weather Resistant Enclosure

Built for long term and reliable continuous monitoring in demanding environmental conditions.



Data Management on the LiveSense Cloud Platform

Access and manage real-time data remotely anytime, anywhere.



Supports Customisation & Integration

Supports integration with external fixed sensors and monitoring devices for gas, weather, soil, noise, and vibration.



Monitor Multiple Particle Fractions

Simultaneously monitor $PM_{1,}$ $PM_{2.5,}$ $PM_{4.25,}$ PM_{10} and TSP.



Locally Serviced & Supported

Minimise downtime with local servicing and support right here in Australia.



Built Inhouse & Australian Made Certified

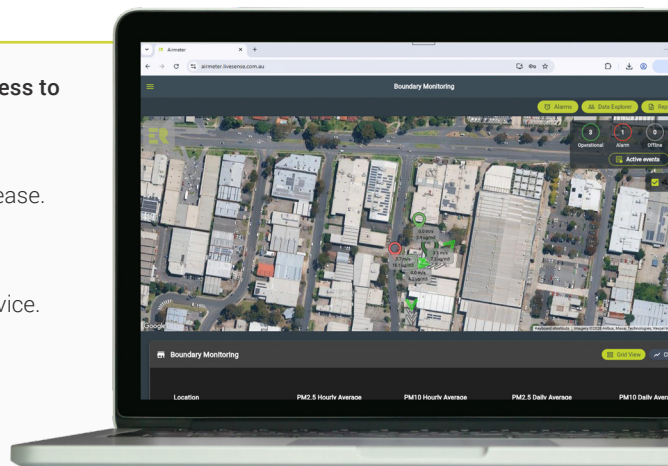
Delivering trusted quality and reliability backed by local engineering expertise.

DATA MONITORING

Seamless integration with the LiveSense cloud portal enables secure remote access to monitoring data anytime, anywhere!

Through the LiveSense platform, users can view historical and real time logs, configure custom alerts, generate reports, and manage monitoring programs with ease. The web based application is fully accessible across desktop and mobile smart devices, providing flexible access whether on site or off site.

- 1 minute datalogging interval with FTP transfer to LiveSense's secure web service.
- Customisable rolling averages upon request.
- Data downloads, user management, threshold alert management (SMS and/or email) and auto-report generation.
- Forwarding capabilities to your existing platforms.
- Requires a minimum 12-month subscription.



GENERAL SPECIFICATIONS

Power Requirement	12VDC
Rated Power	12W (average) / 42W (max)
Operating Temperature	0°C to 50°C
Operating Humidity	0 to 95% non-condensing
Operating Pressure	860 to 1100 hPa
Particulate Sensor Operating Life	2 years (when operated below 40°C)
Datalogging	7+ years locally and on the cloud
Alarm Indicator (optional)	Onboard dedicated alarm relays

ENCLOSURE

Material	Powder Coated Aluminium
Dimensions (mm)	514 (H) x 304 (W) x 160 (D)
Instrument Weight	9.12kg
Mounting Options	Pole mount bracket as standard. Wall mount bracket supplied upon request

COMMUNICATION

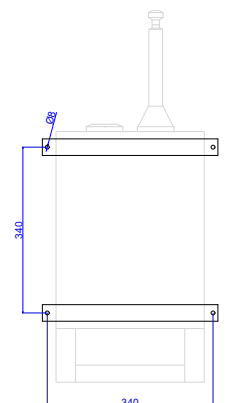
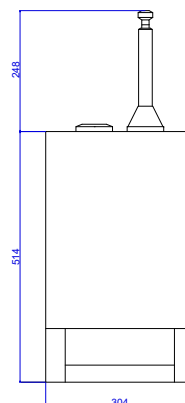
PLC or SCADA Integration	Serial RS485, Modbus TCP/IP (DX-IV only)
FTP Upload	Cellular (Ethernet or WiFi upon request)
Optional	Analog 4-20mA or 0-10V Outputs, RS232, Onboard relays, MQTT

PARTICULATE MEASUREMENTS

Parameters	PM ₁ , PM _{2.5} , PM _{4.25} , PM ₁₀ and TSP		
Range	0-30,000µg/m³		
Resolution	1µg/m³		
Relative Error	PM ₁ /PM _{2.5} /PM _{4.25} PM ₁₀ TSP	± 10% of reading ± 15% of reading ± 20% of reading	Up to 1000µg/m³
Maximum Size Fraction	20 micron		

SPARE PARTS & ACCESSORIES

PART NO.	DESCRIPTION
TF-TRI-AL	1.2m tripod
TF-TM-AML57	5.7m Telescopic mast
AMS-120B-KIT	120Ah LiFePO4 Solar Battery Kit
AMS-300B-KIT	300Ah LiFePO4 Solar Battery Kit
TP-P2	Solar Panel Post Mount Bracket
IPF250	Replacement Solar Panel
AMS-LPF-60-12	Mains Power Supply
9933-05-CQ	Replacement Dust Filter
AMS-AX-IV	Spare Dust Module



WANT TO LEARN MORE? CONTACT US TODAY!

For more information about the AirMetER-DX or additional sensors, contact your local Air-Met Scientific office on **1800 000 744** or contact our team via email at engineeredolutions@airmet.com.au.

Alternatively, scan the QR code to find your nearest Air-Met Scientific office.



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