



AirMetER-DX MULTIPLE FRACTION PARTICLE MONITOR

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

The AirMetER-DX is an economical and low-maintenance laser-based particle monitor designed for measuring particulate matter. Offering multiple fraction monitoring and recording capabilities, the AirMetER-DX is available in two models:

- > AirMetER-DXII - PM_{2.5} and PM₁₀
- > AirMetER-DXIV - PM₁, PM_{2.5}, PM_{4.25}, PM₁₀ and TSP.

Designed to withstand various weather conditions, the AirMetER-DX is housed in a weather resistant enclosure ideal for round the clock continuous outdoor monitoring. The AirMetER-DX has datalogging capacity at a minimum of 365 days at one-minute intervals with built-in log and forward capability to locally store the data in the event of a network disruption.

Integrating seamlessly with Air-Met Scientific's web-based portal for remote data access, this secure data portal enables users to access monitoring logs, set customisable alerts, manage monitoring reports and more. The web-service application is accessible on both desktop PC and mobile smart devices.



AirMetER-DX | Proudly Australian Made

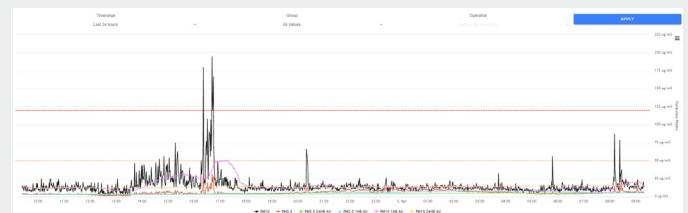
FEATURES & OPTIONS

- > Heated inlet
- > Low maintenance
- > Locally serviced and supported by Air-Met Scientific
- > Supports integration of external fixed sensors e.g. Fixed Gas Transmitters, Soil Moisture Probes.
- > Optional PM₁, PM_{4.25} & TSP
- > Optional alarm indicator capability
- > Optional weather monitoring
- > Optional noise and vibration monitoring

DATA MONITORING

Cellular telemetry through Air-Met Scientific's secure data portal. Requires a minimum 12-month subscription to Air-Met's data portal.

- > 1 minute datalogging interval with FTP transfer to Air-Met Scientific's secure web service.
- > Customisable rolling averages upon request
- > Data downloads, user management, threshold alert management (SMS and/or email) and auto-report generation all managed via Air-Met Scientific's data portal.



TECHNICAL SPECIFICATIONS

GENERAL

Power Requirement	12VDC
Rated Power	33W
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	3 years of logs onboard with unique file name creation every 24 hours
Alarm Indicator (optional)	Onboard dedicated alarm relays

ENCLOSURE

Material	Polycarbonate
Dimensions (mm)	400 (H) x 300 (W) x 150 (D)
Instrument Weight	7.0kg
Mounting Options	Pole-mount kit supplied (recommended installation method) Wall-mount – ~70 mm offset required for dust inlet clearance

COMMUNICATION

PLC or SCADA Integration	Serial RS485, Modbus TCP/IP (DX-IV only)
FTP Upload	Cellular (Ethernet or WiFi upon request)

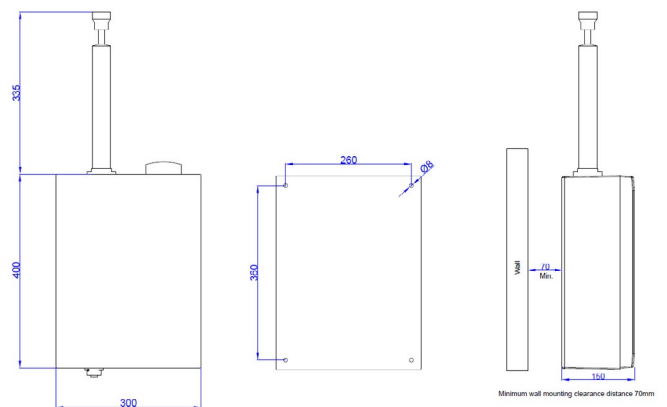
PARTICULATE MEASUREMENTS

	AirMetER-DXII (PM _{2.5} & PM ₁₀)	AirMetER-DXIV (PM ₁ , PM _{2.5} , PM _{4.25} , PM ₁₀ and TSP)	
Range	0-999.9µg/m ³	0-30,000µg/m ³	
Resolution	0.1µg/m ³	1µg/m ³	
Relative Error	Max of ±15% and ±10µg/m ³	PM ₁ /PM _{2.5} /PM _{4.25} } ± 10% of reading PM ₁₀ } ± 15% of reading TSP } ± 20% of reading	Up to 1000µg/m ³

SPARE PARTS & ACCESSORIES

PART NO.	DESCRIPTION
TF-TRI-AL	1.2m Tripod
AMS/250S/120B/15M/9C	120 Ah Lithium Solar Battery Kit
AMS-LPF-60-12	Power Supply (100-240 VAC Input)
9933-05-CQ	Dust Filter for DX-II Module
SF-OPC6303-15-QN	Dust Filter for DX-IV Module

For all additional particulate & meteorological sensors, please contact Air-Met Scientific.



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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