

NEAR REAL-TIME MULTIPARAMETER MONITORING & DATA CAPTURING





OUTLINE

About Air-Met Scientific Introducing the AirMetER-AX Monitoring Station AirMetER-AX Specifications Equipment Service and Maintenance AirMetER-AX Applications and Case Studies LiveSense – Data Portal and Reporting Future Roadmap Q & A





ABOUT AIR-MET SCIENTIFIC

A healthy and safe environment is of vital importance to us all. That's why, since 1984, we have made it our mission to deliver reliable measurement and monitoring solutions to OHS and environmental professionals.

- > Local Support: 6 offices nationally
- > Committed to quality: ISO 9001 Certified
- > NATA Accredited:
 - > Iso/IEC 17025 NATA accredited on Calibration of gas detectors including on-site
 - > ISO/IEC 17020 NATA accredited on Overhaul inspections association with explosion protected equipment (Ex i)
 - > ISO/IEC 17025 NATA accredited on calibration and testing of air sampling pumps and flow meters



OUR BRANDS

Partnering with both local and international suppliers to offer industry-leading solutions





OUR CUSTOMERS

Air-Met Scientific is proud to have worked with some of the most successful small, medium and large companies in Australia





INTRODUCING THE AirMetER-AX AIR QUALITY MONITOR

MONITORING PARAMETERS

- > 1-7 gases: CO, CO₂, VOC, SO₂, H₂S, O₃, and NO₂
- > PM10, PM2.5
- > General weather conditions
- > Ambient noise

FEATURES

- > Modular design for future sensor requirements or expansion
- > IP65 rated polycarbonate enclosure
- > Datalogging at a minimum of 365 days at one-minute intervals
- > Built-in log and forward capability
- > Remote data access via Air-Met's secure data portal
- > Local service, calibration and onsite support





AirMetER-AX SPECS

General Technical Specificat	ion
Power Requirement	12 VDC
Rated Power	22 Watts
Operating Temperature	0 to 50 degrees Celsius
Operating Humidity	0 – 95% non-condensing
Operating Pressure	880 to 1150 hPa

Particulates Me conditions	asurement – specifications	are based on 20°C and 760 mmHg
Particulate	Range	Resolution
PM2.5	0-999 μg/m3	0.1 μg/m3
PM10	0-999 μg/m3	0.1 μg/m3

AirMetER-AX SPECS

Туре	Range	Resolution	T90 Response (s)	Min. Repeatable Detectable Leve
CO (low range)	0-30 ppm	1 ppb	<30	20 ppb
CO (high range)	0-300 ppm	1 ppm	<25	N/A
CO ₂	0-2000 ppm	1 ppm	<40	15 ppm
VOC	0-40 ppm	1 ppb	<10	15 ppb
SO ₂	0-10 ppm	1 ppb	<60	20 ppb
H ₂ S	0-20 ppm	1 ppb	<60	20 ppb
NO ₂ (low range)	0-1000 ppb	1 ppb	<80	20 ppb
NO ₂ (high range)	0-20 ppm	0.1 ppb	<50	N/A
O ₃	0-1000 ppb	1 ppb	<80	20 ppb

Integrated climate sensor for weather monitoring

- > Wind speed and direction
- > Air temperature
- > Relative humidity
- > Barometric air pressure

AirMetER-AX SPECS

Noise

Integrated noise monitor using Sound Examiner

- > Range: 30 to 140 dBA
- > IEC61672-1 Standard and ANSI S1.4-1983
- > Class 2 microphone

Enclosure	
Material	Polycarbonate
Dimensions	500 (H) x 400 (W) x 210 (D)
Instrument Weight	11 Kg
Mounting Options	 Pole-mount kit supplied (recommended installation method) Wall-mount

Communication	
PLC or SCADA Integration	Serial RS232
FTP Upload	Cellular or Ethernet



LOCAL SUPPORT

Experienced and dedicated technicians committed to delivering world-class equipment service, maintenance and technical support.



- > Local service agents
- > Manufacture and assembled in Melbourne
- > Ability to provide on-site service and support
- > Local technical support
- > Local calibration of all sensor modules including dust
- > No down-time service options

<u>AirMetER-AX</u> <u>APPLICATIONS</u>

- Site remediation in Victoria
- PM, VOC, weather monitoring
- Long-term deployment: 12-18 months
- Solar powered with elevated panel
- Custom monthly reporting to client specification



<u>AirMetER-AX</u> <u>APPLICATIONS</u>

- Occupational Hygiene in Construction
- Hazards: RD, RCS, DPM, VOCs, +++
- Data logged on LiveSense
- Communication: Mobile Network, Ethernet, WiFi
- Customisable data display and reporting
- Alerts by SMS and email



AirMetER-AX IN CONSTRUCTION APPLICATION



AirMetER-AX SENSOR CONFIGURATION

- > Particulate Matter: PM2.5 and PM10
- > Carbon monoxide (CO)
- > Nitrogen dioxide (NO₂)
- > Volatile Organic Compounds (VOC) photo ionisation detector (PID)

AirMetER-AX SENSOR TRIGGER LEVELS

12 ppm

1.2 ppm

- > Particulate Matter: PM2.5: 110 µg/m³
- > Carbon monoxide (CO):
- > Nitrogen dioxide (NO₂):
- > Volatile Organic Compounds (VOC): 128 ppm (corrected for gasoline)



AirMetER-AX – GRAPHED DATA OUTPUT









AirMetER-AX – GRAPHED DATA OUTPUT









LIVESENSE – NEAR REAL-TIME VISIBILITY

Air-Met's Secure Data Portal Powered By LiveSense

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Near Real-Time Visibility

A simple Dashboard configuration allows the area manager to establish individual key performance indicators per area. A simple colour code allows the user to quickly see what operations are running out of specification.



Near Real-Time Alerts

Authorised users are able to set alarms based on near real-time readings. Notifications can be sent to both, multiple email addresses and mobile phone numbers.



Historical Data

All data is stored and collated on secure external servers and can be accessed via computer, tablet or smart phone. This data is stored and can be easily retrieved or downloaded at any time.



DATA AND SECURITY

- > Data is hosted by Amazon Web Services
- > Highly scalable, reliable, flexible and secure environment
- > Data is stored at Amazon Web Services Sydney Data Centre
- > Logical Access Control that are managed by AWS Identity and Access Management (IAM) service.
- > SSL and SSH encryption during transmission



REPORTING

- Customisable reports for traceability
- Threshold alert management (SMS and/or email)
- > Auto-report generation







YOUR PARTNER IN OHS & ENVIRONMENTAL MONITORING EQUIPMENT & SERVICES

THANK YOU & QUESTIONS

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