AirMetER-AX

MULTIPARAMETER AIR QUALITY MONITORING STATION

COMPETITIVE SOLUTION FOR MONITORING PARTICULATE, GAS, ENVIRONMENTAL CONDITIONS, AND NOISE

The AirMetER-AX is a lightweight, compact, and easy to install air quality monitoring station. The modular design allows the unit to support 1-7 gases, PM10, PM2.5, general weather conditions, and ambient noise.

Housed in a weatherproof IP65 rated polycarbonate enclosure, the AirMetER-AX is ideal for continuous round the clock outdoor monitoring and has data logging capacity at a minimum of 365 days at one-minute intervals. It also has a built-in log and forward capability to capture 1 week of operation in the event of a network disruption.

Integrating seamlessly with Air-Met Scientific's web-based portal for remote data access, Air-Met's 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.

FEATURES

◦ Simultaneous PM2.5 and PM10 measurement with heated inlet
◦ Monitor 1-7 gases monitor – CO, CO_2, VOC, SO_2, H_2S, O_3, and NO_2
◦ Ambient weather monitoring
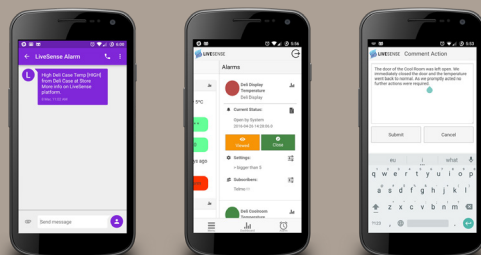◦ Ambient noise measurements
◦ Onboard datalogging

DATA

Cellular telemetry through Air-Met's secure data portal.

◦ 5 minute datalogging interval with FTP transfer to Air-Met's secure web service
◦ 1-hour and 24-hour rolling averages as standard
◦ Data downloads, user management, threshold alert management (SMS and/or email) and auto-report generation all managed via Air-Met's data portal.

Requires minimum 6-month subscription to Air-Met's data portal.

airmet.com.au

GENERAL

Power requirement	12VDC
Rated Power	12W
Operating Temperature	0°C to 50°C
Operating Humidity	0 to 95% non-condensing
Operating Pressure	880 to 1150 hPa

MEASUREMENTS (specification are based on 20°C and 760 mmHg conditions)
PARTICULATES

Particulate	Range	Resolution
PM2.5	0-999 µg/m3	0.1 µg/m3
PM10	0-999 µg/m3	0.1 µg/m3

MEASUREMENTS (specification are based on 20°C and 760 mmHg conditions)
GASES

Type	Range	Resolution	T90 Response (s)	Min. Repeatable Detectable Level
CO	0-30 ppm	1 ppb	<30	20 ppb
CO_2	0-2000 ppm	1 ppm	<40	15 ppm
VOC	0-100 ppm	1 ppb	<10	15 ppb
SO_2	0-10 ppm	1 ppb	<60	20 ppb
H_2S	0-20 ppm	1 ppb	<60	20 ppb
NO_2	0-1000 ppb	1 ppb	<80	20 ppb
O_3	0-1000 ppb	1 ppb	<80	20 ppb

WEATHER SENSOR

Integrated climate sensor for weather monitoring
◦ Wind speed and direction
◦ Air temperature
◦ Relative humidity
◦ Barometric air pressure

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 (mm)	500 (H) x 400 (W) x 210 (D)
Instrument Weight	11kg
Mounting Options	Pole-mount kit supplied (recommended installation method) Wall-mount

COMMUNICATION

PLC or SCADA Integration	Serial RS232
FTP Upload	Cellular or Ethernet