Fumigation Gas Monitoring Solutions
Air-Met Scientific supplies a range of gas detectors, from world leading suppliers, for personal protection and the monitoring of high and low concentrations of fumigant gases during treatment, handling and transporting. Gas detectors are available for both sale and rental.

Air-Met Scientific can also supply web-based remote monitoring solutions to ensure effective and efficient fumigation and eliminate personnel exposure to dangerous concentrations of fumigant gases.

Contact Air-Met on 1800 000 744 for more information.

### FUMIGATION MONITORING

#### Spectros Instruments 400 Series Portable Monitors

**Multi-Z**

Delivers unmatched performance for critical Phosphine, Methyl Bromide or Sulfuryl Fluoride fumigations. Users may monitor multiple locations on-site or remotely via Spectros Fumeview Data Portal (via cellular or satellite communications).

- Superior Non-Dispersive Infrared Technology
- Wi-Fi, Cellular, Satellite, Ethernet, PLC Integration options
- Immune to CO\textsubscript{2} cross-sensitivity
- Multiple zone options; 4, 8, 12 or 16
- Capable of remote power operation

#### Spectros Instruments 400 Series Fixed Monitors

**Multi-Zone Fumigant Monitoring For Fixed Applications**

Housed in a durable Hoffmann-style enclosure, the 400 Series Fixed Monitors are ideal for more permanent installations where reliable monitoring of the fumigation process is required.

- Superior Non-Dispersive Infrared Technology
- Wi-Fi, Cellular, Satellite, Ethernet, PLC Integration options
- Set-and-forget functionality
- Multiple Zone options; 4, 8, 12 or 16
- Capable of remote power operation

#### PM-EC Dual Range Phosphine Monitor

**Economic Dual-Range Monitoring Of PH\textsubscript{3} Concentrations**

The PM-EC dual-range phosphine monitor, from Spectros Instruments, provides a low-cost solution for remote monitoring of the fumigation process, for event validation, and preliminary checks for clearance levels of fumigant gas.

- Small, light-weight and easy to use
- 3G connectivity option for remote monitoring
- Rugged, weather-proof enclosure

#### Spectros Instruments PM200 Phosphine Monitor

**Single-Zone NDIR Monitor With Remote Connectivity**

The PM200 utilises the same highly specific NDIR sensor as the 400 Series but comes as a single-point sampling system, in an easily transportable weather-resistant enclosure for easy deployment of a remote monitoring system for smaller applications.

- Spectros “Fume-View” Web-based remote monitoring
- 12VDC battery or 100-240VAC mains powered
- NDIR sensor immune to CO\textsubscript{2} cross-sensitivity

#### Spectros Instruments SF-ExplorIR

**Portable Sulfuryl Fluoride Clearance Monitor**

Provides accurate, real-time concentration measurements to enable suitably qualified personnel to make a decision on an enclosures’ suitability for clearance after a fumigation event. The monitor uses non-dispersive infrared (NDIR) technology to detect low-level concentrations of sulfuryl fluoride.

- Range: 0-100ppm
- Internal purge bag for base-line checks in contaminated areas
- Light-weight, portable

#### Spectros Instruments ContainIR Monitors

**Single-Zone CH\textsubscript{3}Br & SO\textsubscript{2}F\textsubscript{2} Monitors**

The ContainIR range of monitors offer simple, portable, single-zone monitoring of sulfuryl fluoride or methyl bromide concentrations during a fumigation event. The MB-ContainIR is the only USDA approved monitor for methyl bromide fumigations and offers unparalleled accuracy when compared to other, similar monitors on the market.

- Available for either sulfuryl fluoride or methyl bromide
- Temperature compensated
- Not affected by CO\textsubscript{2}
Kitagawa Precision Gas Detection Tubes

Gas Detector Tube System
The Kitagawa Gas Detection Tube System accurately detects and measures a wide range of combustible and toxic gas vapours including phosphine present in the environment.

- Measures hundreds of different gases and vapours quickly and easily including popular fumigants
- Precision hand-operated piston pump delivers accurate sample volume to the detector tube
- Concentration displayed by colour change in detector tube

Sulfuryl Fluoride & Methyl Bromide Sensors

OEM Sensors
Sensor ranges of 0-100ppm for sulfuryl fluoride and 0-6% vol. for methyl bromide. Contact the Air-Met Engineered Solutions team to discuss complete integrated solutions.

- Ready to use
- Compact construction
- 3/5 mm hose connections
- Modbus ASCII / RTU via UART, Analog and RS485 option available
- Status display by LED
- Temperature and drift compensated

Ion Science Cub Personal PID Monitor

Continuous Monitoring of VOCs
Cub is the world’s smallest, lightest personal PID monitor for the accurate detection of volatile organic and total aromatic compounds.

- Ideal for methyl bromide fumigation
- In-built humidity resistance with no need to compensate
- Anti-contamination design for extended field operation
- Measures 480 selectable compounds (10.6 eV lamp)
- Fastest (<13 second) response to hazardous gases & vapours
- IECEx: Ex ia IIC T4-20°C ≤Ta≤ 55°C

Industrial Scientific Ventis Pro Series

Multi-Gas Monitor for Confined Space Entry
The Ventis™ Pro Series with LENS™ Wireless has you covered whether you need unique 4-gas or 5-gas sensor options—all in the most configurable multi-gas monitors on the market.

- O₂, CO, CO/H₂ low, H₂S, HCN, NH₃, NO₂, SO₂, PH₃, CO₂/HC, CO₂/CH₄
- Available with integral pump for confined spaces
- Rugged IP68 dust and water rating
- Custom start-up messages, alarm action messages, and gas alerts
- Guaranteed for Life™ warranty*
- IECEx certified

Industrial Scientific GasBadge Pro

Single Gas Monitor & Data-Logger
The interchangeable “smart” sensors enable the GasBadge Pro to be quickly adapted to monitor unsafe levels of oxygen or toxic gases including: phosphine, carbon monoxide, hydrogen sulfide, nitrogen dioxide, sulfur dioxide, chlorine, chlorine dioxide and more.

- Case: Rugged, water-resistant polycarbonate shell with protective concussion-proof overmould. RFI resistant
- Sensors: PH₃, CO, H₂S, O₂, NO₂, SO₂, NH₃, Cl₂, ClO₂, HCN, H₂, CO/H₂, Null
- One year data logging capacity (minimum)
- Standard STEL and TWA
- Small, lightweight and wearable
- IECEx certified

PH₃ Logger/VOC Logger

Phosphine Gas Logger
Designed for the easy data logging of phosphine or VOC concentrations. The Logger provides a way to record gas data over extended periods. The Logger is not certified for use in areas where a flammable atmosphere may be present.

- Electrochemical PH₃ or Ion Science Mini PID2 sensor options available
- >2 years PH₃ sensor life from the date of install.
- Over 65,000 samples data logging capacity
- Up to 28 days battery life
- Not suitable for hazardous areas

*Guaranteed for Life™ warranty applies to the electronics only, excluding battery, tube, pump and cable which are not covered.
**WEATHER MONITORING SOLUTIONS**

**Thies Clima US**

**Multi-Parameter Weather Station**
The Thies Clima US Weather Station is a compact solution for the monitoring of a wide variety of meteorological parameters. Available in different configurations, this simple to install system can be connected to a remote data application or integrated with other monitors from the Air-Met range.

- Measures wind speed / direction, precipitation, brightness, temperature, relative humidity, and barometric pressure
- Instrument has a GPS receiver
- Digital or Analogue outputs
- Housing: Plastic LEXAN (Polycarbonate, UV-stabilised)
- IP 67 Rated

**DTN Weather Sentry**

**Advanced, Weather Prediction Software Service**
From aviation, agricultural operations of every size to energy providers worldwide, DTN’s Weather Sentry service delivers unmatched weather intelligence, forecasts, and actionable insights for the minimisation of risks and reduction of operating costs.

- Location specific weather forecasting
- Better forecast accuracy than the BOM (Bureau of Meteorology)
- Integrate site-located weather stations for even greater accuracy
- Industry specific versions for relevant weather information
- Customisable alerts

**CUSTOM ENGINEERED SOLUTIONS**
The Air-Met in-house engineering team are able to produce turn-key solutions for a wide range of monitoring applications.

**Industries include:**

- Building Facilities Management
- Warehouse / Storage
- Oil and Gas
- Mining
- Chemical
- Food and Beverage
- Agriculture
- Universities
- Healthcare and Medical Facilities
- Laboratories

**EQUIPMENT SERVICE & MAINTENANCE**
With more than 25,000 pieces of equipment maintained and repaired annually by Air-Met’s experienced and qualified service technicians, Air-Met knows better than anyone what it takes to ensure maximum longevity of your instruments, minimise downtime and improve plant performance.

- NATA accredited under ISO/IEC 17025 for calibration of gas detectors, air sampling pumps and flow meters and under ISO/IEC 17020 as a Type C Inspection Body.
- ISO 9001 quality accredited service centres
- Calibrations (standard and NATA) and instrument repairs.
- On-site service and support via mobile service vans minimising downtime.

**AIR-MET DATA PORTAL & APP**
The Data Portal and App are secure, real-time portals allowing you and your team to remotely monitor a wide range of measurement parameters anywhere you have cellular or satellite access. The Data Portal and App are available for both standard and custom solutions. Contact the Air-Met Engineered Solutions team for more information.

**FEATURES**
- Building floor-plan upload with positionable sensor location and status indication
- Alert notifications (SMS, call, email or combination of methods)
- Multiple connection options (dependent on application)
- Period average alarm option
- SCADA integration
- Customisable reports and downloadable data

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