

# MIDAS<sup>®</sup>-M GAS DETECTOR

Choose the Midas-M Fixed extractive, 4-in-1 multi gas detector to detect more than 30 gases - precisely, easily, quickly, lower cost of ownership based on consumer experience design.

## BRINGING NEW VISIBILITY, RELIABILITY AND EASE OF USE TO GAS DETECTION IN SEMICONDUCTOR PROCESSING AND INDUSTRIAL MANUFACTURING.

The Midas-M is a Fixed Extractive Single Point with 4-in-1 Multi Gas Detector that draws a sample locally or from a remote point to a sensor cartridge that is located inside the detector's chassis. A side range of toxic, flammable and oxygen gas sensor cartridges are available that enable detection of gases used or generated in the Semiconductor and other manufacturing industries

- **Lower cost of ownership:** The Midas-M Gas Detector is Fixed Extractive Single Point with 4-in-1 Multi Gas Detector
- **Improved user interface and easy of use:** The Midas-M Gas Detector is equipped with large LCD display with individual multicolor back light and intuitive icons that provide instant alerts to gas readings or alarm levels.
- **Easy installation and maintenance:** The Midas-M Gas Detector comprises of 4 parts: The main module, the mounting bracket assembly, the sensor cartridge and the pump module
- **Numerous applications:** With feature rich capabilities that are easy to use, the Midas-M Gas Detector is suitable for various industry applications, including semiconductor processing, light industrial manufacturing, university laboratories, aerospace, wastewater and the others.



## FEATURES

- Over \*33 gases available with 2 year warranty : 17 gases available at launch
  - 4-in-1 multi smart sensor cartridge with on board \*'e-calibration' certificate
  - Modular design for easy to use and service (front, pump, sensor cartridge, main and base)
  - 3 built in relays (Form C) for Alarm 1, 2 and Fault
  - Power over Ethernet (PoE) communication
  - Keypad interface and remote web browser interface
  - \*Optional external relay module with nine relays
  - \*Optional Line Integrity Test (LIT) module to detect a leakage in tubing
  - \* Optional Alarm Verifier Module to reduce false alarm
  - Password protected menu levels to preserve system integrity
  - Bright LEDs and intuitive icon driven, large LCD display with individual multicolor backlit
  - Factory-calibrated sensors to reduce need for frequent gas testing
  - Isolated 0-21 mA analog output with fault and event reporting
  - Modbus/TCP Ethernet for easy connectivity to all control and alarm systems ports for control connectivity and service interaction
  - Robust extractive pump system (2 year lifetime) sampling up to 100 feet
  - CE marked for total immunity to Radio Frequency Interference
  - Reflex<sup>®</sup> sensor health check for improved safety
  - TempraSure<sup>™</sup> temperature compensation technology as appropriate
  - Event logging to review sensor history
- \* Respect to sequential release



## SINGLE POINT EXTRACTIVE WITH 4-IN-1 MULTI GAS DETECTOR

### PLUG-AND-PLAY GAS DETECTION

With flexible features and options, the Midas-M Gas Detector works right out of the box and configures easily to meet your needs. Each plug-and-play sensor cartridge is pre-calibrated, so it's ready when you are. That means longer sensor life, quick and easy replacement, and no operator error due to incorrect or depleted sensors

The Midas-M has flexible power and communications capabilities built in as standard. These include 3 on board relays, 0-21 mA analog output, Modbus/TCP outputs for signal and service connectivity as well as Power over Ethernet (POE) connection that enables a single Ethernet connection to be made for all power, control and communication requirements.



*Midas-M Gas Detector plug and play Smart Sensor Cartridge allows quick and easy sensor replacement*

### Midas-M Smart Sensor Cartridge Detectable Gases

Gas Name	Chemical Formula
Ammonia	NH <sub>3</sub>
Arsine *	AsH <sub>3</sub>
Boron Trichloride	BCl <sub>3</sub>
Boron Trifluoride	BF <sub>3</sub>
Boron Trifluoride Low Level *	BF <sub>3</sub>
Bromine *	Br <sub>2</sub>
Carbon Dioxide *	CO <sub>2</sub>
Carbon Monoxide	CO
Chlorine	Cl <sub>2</sub>
Chlorine Dioxide *	ClO <sub>2</sub>
Diborane *	B <sub>2</sub> H <sub>6</sub>
Dichlorosilane	SiH <sub>2</sub> Cl <sub>2</sub>
Disilane	Si <sub>2</sub> H <sub>6</sub>
Ethylene Oxide *	ETO
Germane *	GeH <sub>4</sub>
Hydrogen	H <sub>2</sub>
Hydrogen Bromide	HBr
Hydrogen Chloride	HCl
Hydrogen Cyanide *	HCN
Hydrogen Fluoride	HF
Hydrogen Fluoride Low Level *	HF
Hydrogen Selenide *	H <sub>2</sub> Se
Hydrogen Sulfide *	H <sub>2</sub> S
Nitric Oxide *	NO
Nitrogen Dioxide *	NO <sub>2</sub>
Oxygen	O <sub>2</sub>
Ozone	O <sub>3</sub>
Phosphine	PH <sub>3</sub>
Silane	SiH <sub>4</sub>
Sulphur Dioxide	SO <sub>2</sub>
Tetra Ethyl Ortho Silicate *	TEOS
Tungsten Hexafluoride	WF <sub>6</sub>
Tungsten Hexafluoride Low Level *	WF <sub>6</sub>

\* Respect to sequential release