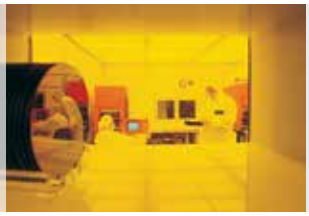
Midas® Gas Detector

Honeywell

Bringing new visibility, reliability and ease of use to gas detection in semiconductor processing and industrial manufacturing

Midas® Gas Detector



Features:

- Over 35 gases available with extended 2 year warranty*
- Smart sensor cartridge with on board 'e-calibration' certificate
- 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 Midas Pyrolyzer module that connects to any Midas Gas Detector
- Password protected menu levels to preserve system integrity
- Bright LEDs and intuitive icon driven, large multicolor backlit LCD display
- Factory-calibrated sensors to reduce need for frequent gas testing
- Isolated 0-22 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® sensor health check for improved safety
- TempraSure™ temperature compensation technology as appropriate
- Event logging to review sensor history

* Standard 1 year warranty

Choose the Midas Gas Detector to detect more than 35 gases — easily, quickly and error-free. All with extended sensor calibration periods, patented diagnostics and lower cost of ownership.

The Midas Gas Detector uses reliable sensor technology to detect many key toxic, ambient and flammable gases in a plant. The device monitors points up to 100 feet (30 meters) away while using patented technology to regulate flow rates and ensure error-free gas detection. Thanks to Honeywell's use of advanced robotics, the Midas Gas Detector offers unbeatable quality and reliability:

- **Improved visibility and ease of use.** The Midas Gas Detector is equipped with bright LED lights and an intuitive, interactive interface that provides instant alerts to gas readings or alarm levels. The interface also includes password-protected menus for configuration, test and calibration.
- **Easy installation.** Compact in size with an easy-to-handle metal chassis, the Midas Gas Detector is simple to install. That's especially important in crowded, complex process environments where space is at a premium.
- **A complete solution.** The Midas Gas Detector is complemented by our innovative Chemcassette® technology, which detects ultrasensitive toxic gases at low parts-per-billion (ppb) levels. And we offer the support of a worldwide network of service engineers who operate on a 24/7 basis.
- **Numerous applications.** With feature-rich capabilities that are easy to use, the Midas Gas Detector is suitable for many industry applications, including semiconductor processing, light industrial manufacturing, university laboratories, aerospace, wastewater and more.

Compact size is perfect for gas detection in crowded and complex process environments

Contact Honeywell Analytics today.

Find out how our Systems Integration team can save you money, while enhancing safety and productivity at your company.

Please call 800-538-0363 to discuss your specific operational needs.

Single Point Extractive Gas Detector

Plug-and-play gas detection

With flexible features and options, the Midas 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 standard power supply and communications capabilities include three onboard relays, 0-22 mA analog output and Modbus/TCP Ethernet digital outputs. Plus, the Midas Gas Detector includes the innovative Power over Ethernet (PoE) protocol — a single Ethernet connection for all power, control and communication requirements. Thanks to the Midas architecture, cost-effective integration with PLC and Fieldbus systems is greatly simplified.

Midas Cartridge Detectable Gases

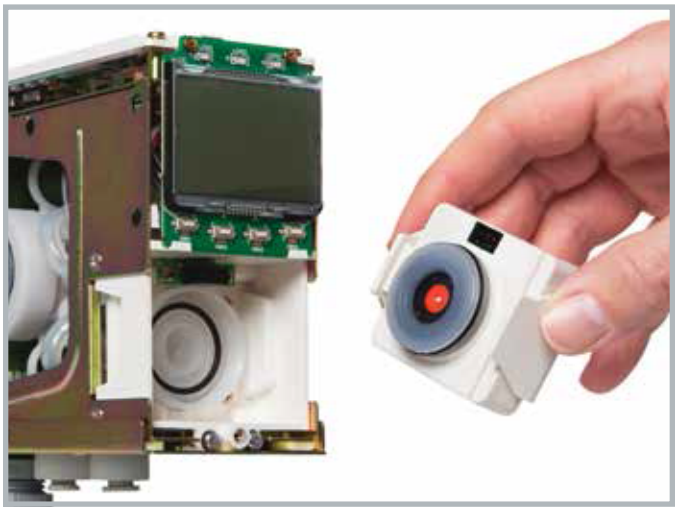
Gas Name	Chemical Formula
Ammonia	NH_3
Arsine	AsH_3
Boron Trichloride	BCl_3
Boron Trifluoride	BF_3
Bromine	Br_2
Carbon Dioxide	CO_2
Carbon Monoxide	CO
Chlorine	Cl_2
Chlorine Dioxide	ClO_2
Diborane	B_2H_6
Dichlorosilane	H_2SiCl_2
Difluoromethane*	CH_2F_2
Disilane	Si_2H_6
Fluorine	F_2
Germane	GeH_4
Hexafluorobutadiene*	C_4F_6
Hydrogen (% LEL)	H_2
Hydrogen (ppm)	H_2
Hydrogen Bromide	HBr
Hydrogen Chloride	HCl
Hydrogen Cyanide	HCN
Hydrogen Fluoride	HF
Hydrogen Sulfide	H_2S
Methane (% LEL)	CH_4
Methyl Flouride*	CH_3F
Nitric Oxide	NO
Nitrogen Dioxide	NO_2
Nitrogen Trifluoride*	NF_3
Octaflourocyclopentene*	C_5F_8
Oxygen	O_2
Ozone	O_3
Phosphine	PH_3
Silane	SiH_4
Sulfur Dioxide	SO_2
Tetra Ethyl Ortho Silicate	TEOS
Tungsten Hexafluoride	WF_6

*Gases require Midas Pyrolyzer

Midas® Pyrolyzer

Offered as an option, the Midas Pyrolyzer allows for the detection of NF_3 and other CxFy gases. Cost of ownership is low, as the Pyrolyzer has a replaceable heater assembly with a lifespan of greater than two years. Even more, thanks to our new proprietary catalyst to improve efficiency in gas conversion, the Pyrolyzer delivers automatic flow control, temperature control, and fast and accurate performance. Additionally, the Pyrolyzer can run from a Midas Gas Detector that's powered by either PoE or 24 VDC.

Midas Gas Detector with Midas Pyrolyzer



Midas Gas Detector plug-and-play sensor cartridge allows quick and easy sensor replacement

Honeywell Analytics Gas Detection Offerings

Honeywell Analytics gas detectors protect people, assets and environment from toxic and combustible gas hazards, helping to create safer, more comfortable, secure and productive environments. Our strength derives from Honeywell's leadership in sensor technology; in fact Honeywell operates four sensor manufacturing plants, supplying an entire industry with its core detective element.

Commercial

Gas detection from standalone units to fully engineered, multi-point systems, all offering cost-effective regulatory compliance.

- Applications: parking structures, chillers, mechanical rooms, office towers, commercial buildings, shopping centers, swimming pools, golf courses, schools and universities, laboratories

Industrial

Renowned Sieger and Manning gas detection systems with advanced electrochemical, infrared and open path sensing technologies.

- Applications: oil and gas, cold storage, water/wastewater treatment, chemicals, engine rooms, plastics and fibers, agriculture, printing and light industrial

Portables

Single or multi-gas detectors ranging from compact, lightweight designs for personal protection to systems-based, networkable instrumentation for industrial hygiene.

- Applications: underground utility and electricity ducts, boiler rooms, post-fire sites, sewers, industrial plants, industrial hygiene, first responder teams, remote fleets

High Tech/Government

Reliable gas and chemical detection including infrared spectroscopy (MST) with no cross interference, to Chemcassette paper-based solutions (MDA Scientific) offering detection down to parts per billion.

- Applications: semiconductor manufacturing, aerospace propulsion, specialty chemicals industry, research laboratories, emergency response

Technical Services

24/7 global network includes post-sales service and Systems Integration teams.

- Emergency call out, service contracts, on/off-site repair, training and commissioning
- Complete range of spares, consumables and accessories

Find out more
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