



# **ADVANCED** **SINGLE-POINT** **DETECTION**

With a low cost of ownership and maximum uptime

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Honeywell Midas® S2

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**Honeywell**

# MIDAS GAS DETECTION

The Midas S2 is designed with a compact form factor suitable for use in applications with tight space constraints. The highly modular design enables easy, trouble-free installation and serviceability.

## BRINGING NEW VISIBILITY, RELIABILITY AND EASE-OF-USE TO GAS DETECTION IN SEMICONDUCTOR, INDUSTRIAL MANUFACTURING AND LAB APPLICATIONS

The Midas S2 is a fixed, extractive single-point gas detection system that draws a sample locally or from a remote point to a sensor cartridge. A wide range of toxic, flammable, and oxygen gas sensor cartridges are available to detect gases used or generated in semiconductor manufacturing operations, light manufacturing environments, and national and university labs specializing in semiconductor processing research.

- **Clear Visibility:** The Midas S2 is equipped with a larger graphics display screen for better visibility, instrument status icons, monitoring point and location name, and instant alerts to gas readings or alarm levels
- **Calibration Completed:** Factory-calibrated sensors reduce the need for frequent gas testing
- **Improved Serviceability:** Easy access to change the sensor and pump from the front of the equipment
- **Easy Installation:** Compact in size, making it suitable for crowded, complex process environments where space is at a premium
- **PoE Protocol:** The detector includes the innovative Power over Ethernet (PoE) protocol – a single connection for all power, control, and communication requirements
- **Integrated Security:** The Midas S2 interface includes password-protected menus to maintain system integrity



## FEATURES AND BENEFITS

- Highly modular design for easy, reliable, and trouble-free installation
- Quick replacement of cartridges and pump parts for simple maintenance
- Single, smart sensor cartridge with onboard 'e-calibration' certificate
- 3-built-in relays (Form C) for Alarms 1, 2, and Fault
- Keypad interface
- Factory-calibrated sensors to reduce the need for frequent gas testing
- 4-20mA analog output with fault and event reporting
- Large, bright, and rich TFT color LCD and extensive viewing angle
- mA communication protocols for easy connectivity and service interaction
- Robust extractive pump system (2-year lifetime) sampling up to 100 feet
- Block test to ensure sampling line connection and no leakage

# FLEXIBLE AND STATE-OF-THE-ART SINGLE-POINT GAS MONITORING TECHNOLOGY



## PLUG-AND-PLAY DETECTION

With full features and options, the Midas S2 works right out of the box and configures easily to meet your needs.

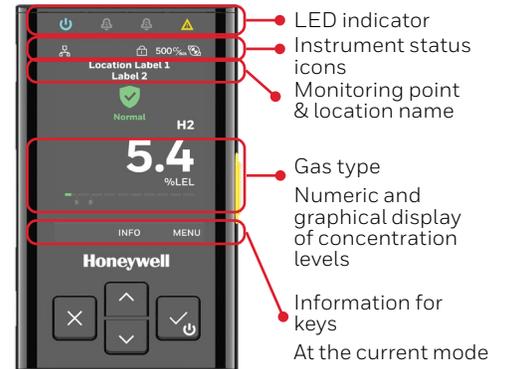
Each plug-and-play sensor cartridge is pre-calibrated, which means longer sensor life, quick and easy replacement, and no operator error due to incorrect or depleted sensors. The Midas S2 has flexible power and communications capabilities built in as standard. The power supply and communications capabilities include three onboard relays (Form C), 4 mA to 20 mA analog output, Modbus TCP/IP, TCP Ethernet outputs for easy connectivity to control, and alarm systems' ports for optimal connectivity and service interaction.

## IMPROVED INTERFACE AND EASE-OF-USE

Midas S2 offers reliable technology, longer-life components, and an easy-to-service modular structure, ensuring maximum uptime in applications where downtime equals huge revenue loss and safety risks. The improved HMI provides intuitive and easy user menus. The software allows numerous remote features for data viewing, remote reset, and remote configuration options. Midas S2 also has many user-configurable features that make the device user-friendly.



Quick and easy pump and cartridge replacement



**TABLE 1. MIDAS S2 SMART SENSOR CARTRIDGE DETECTABLE GASES**

GAS NAME	CHEMICAL FORMULA	GAS NAME	CHEMICAL FORMULA
Hydrogen	H <sub>2</sub>	Disilane	Si <sub>2</sub> H <sub>6</sub>
Methane	CH <sub>4</sub>	Boron Trifluoride Low Level	BF <sub>3</sub>
Propylene	C <sub>3</sub> H <sub>6</sub>	Hydrogen Fluoride	HF
Boron Trichloride	BCl <sub>3</sub>	Tungsten Hexafluoride	WF <sub>6</sub>
Dichlorosilane	H <sub>2</sub> Cl <sub>2</sub> Si	Carbon Monoxide	CO
Hydrogen Bromide	HBr	Nitrogen Trifluoride	NF <sub>3</sub>
Hydrogen Chloride	HCl	Methyl Fluoride	CH <sub>3</sub> F
Ammonia	NH <sub>3</sub>	Sulphur Dioxide	SO <sub>2</sub>
Ozone	O <sub>3</sub>	Hydrogen Sulphide	H <sub>2</sub> S
Chlorine	Cl <sub>2</sub>	Silane	SiH <sub>4</sub>



Alarm 1 state Alarm 2 state Fault state

**For more information**

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