**Midas**

Toxic, corrosive and combustible gases detector with sensor swapping technology

**INTRODUCTION**

**MIDAS** is a gas monitoring system for fast and reliable response to the presence of virtually all gases used or generated in the semiconductor and other industrial manufacturing applications. **MIDAS** offers lower cost of ownership benefits for gas detection through a combination of extended sensor calibration periods, flexible communications architecture and patented diagnostics that monitor sensor performance and flow control.

**MIDAS** uses a universal transmitter platform that detects the majority of toxic, ambient and flammable gases that must be monitored in a typical industrial process environment. The pre-calibrated "plug-and-play" smart sensor cartridge makes sensor replacement quick and easy to manage with no tools required, and prevents any operator error associated with using incorrect or depleted sensors. Bright LED lights and an intuitive, icon driven interactive menu guarantee instant alert to the gas reading or alarm level coupled with password protected menus for configuration, test and calibration.

**MIDAS** is very compact in size and its easy access metal chassis design makes it simple to install in crowded, increasingly complex process environments or retrofit applications where space is at a premium. **MIDAS** has flexible power and communications built in as standard including 3 on-board relays, 0-22mA analog output, Modbus/TCP Ethernet digital outputs, as well as the innovative Power over Ethernet (PoE) protocol - a single Ethernet connection for all power, control and communication requirements. Cost effective integration with PLC and FieldBus systems is greatly simplified with the **MIDAS** architecture.

**MIDAS** will monitor points up to 30m (100ft) away from the transmitter and flow rates are regulated automatically using patented control technology to ensure error free gas sensing operation.

Honeywell Analytics designs and manufactures its own sensors using advanced robotics to ensure unbeatable quality and reliability.

**TECHNICAL FEATURES**

- Smart sensor cartridge with on board “e-calibration” certificate
- **Operating Voltage**: 24VDC, -15 to +10%
- **3 relays** for Alarm 1, Alarm 2 and Fault rated 30VDC, 1 A or 125VAC, 0.5 A; configurable NO or NC, latched or unlatched
- **Flow Rate**: 500 mL/min
- **Transport Time**: 2 to 30 seconds maximum
- **Exhaust Length**: Up to 100 ft (30m)
- **Isolated 0-22 mA analog output** with fault and event reporting
- **Event logging** to review sensor history

**Certification & Specification**:

- European CE Marked for sale in European Community. Meets EN 50270:2006 (Type 2) and EN 61000-6-4: 2007
- Environmental ETL approved UL61010-1 Ed:3
- Electrical IEEE 802.3af-2003
- **Size (unit with Sensor)**: 5.91 (H) x 2.56 (W) x 6.02 (D) in (150 x 65 x 153 mm)
- **Mounting**: Wall mounted using pre-drilled holes on chassis. Options for DIN rail or vertical bracket mounting
- **Operating Temperature**: Unit with Sensor 32° to 104°F (0° to 40°C)

**MONITORED GASES LIST**