

Z Gard® S Sensor

Economical and Reliable Gas Sensor

Ti Techingenium

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The Z Gard S Sensor is designed to detect the presence of carbon monoxide and nitrogen dioxide gases in air. These sensors employ solid state or electrochemical sensors which generate a representative output signal proportional to the calibrated operating range. All Z Gard S Sensors are available with 2 output versions, a 4-20mA analog output, or an addressable RS-485 digital signal. The Z Gard S Sensor with RS-485 digital output is specifically designed to operate with any Z Gard C 485 Controller, operating as a system. The Z Gard S Sensor with 4-20mA can be installed as a stand-alone sensor typically integrated with the Z Gard C Controller, or common commercial equipment including PLC, DCS, or building automation systems.

Features

- ▶ 2 sensor output options: 4-20mA analog output or RS-485 digital signal.
- ▶ Standard housing is a 4" x 4" tamper-resistant commercial electrical PVC box with 3/4" PVC conduit opening. Sensor and electronics are housed in a steel cover plate box-mounted with 4 screws.
- ▶ Sensor status is shown by green OK LED, indicating proper device operation.
- ▶ Jumpers drive output to percentages of full-scale. This feature is useful for testing remote devices which may be connected to the sensor output.

MSA
The Safety Company

Specifications

Solid State Sensor	
Detection Range	CO 0-100 or 0-200 ppm. Other gases are available.
Sensor	Metal oxide sensing element
Accuracy	± 5% , full scale (FS) at 50% relative humidity
Humidity	0 - 95% RH
Operating Temperature Range	0° to 40°C (32° to 104°F)
Storage Temperature Range	-10° to 50°C (14° to 122°F)
Electrochemical Sensor	
Detection Range Carbon Monoxide Nitrogen dioxide	Standard (0-100 ppm), Optional (0-200 ppm) Standard (0-100 ppm)
Sensors	Plug-in, electrochemical sensing elements
Accuracy	± 5% , full scale (FS)
Humidity	0 - 95% RH
Operating Temperature Range	0° to 40°C (32° to 104°F)
Storage Temperature Range	-10° to 50°C (14° to 122°F)
All Z Gard Sensors	
Calibration	Factory-calibrated. Sensors can also be field-calibrated.
Standard Enclosure	Plastic double-gang connection box. Metal front plate secures sensor and circuit board
Dimensions	5.5" H x 5.5" W x 2.2" D
Certification	ENTELA (to CSA Standards)
Z Gard S 4-20 mA Sensors	
Operating Power 24 VAC or DC 24 VAC	100 mA used with MSA Z Gard Controllers or commercial DCS and PLC devices 100 mA used with commercial DCS and PLC devices
Signal Output	4-20 mA analog, 3-wire, point-to-point connection
Z Gard S RS-485 Sensors	
Operating Power	24 VDC, 100 mA used with MSA Z Gard C Controllers
Standard Enclosure	RS-485, 4-wire network connection
Dimensions	Network address jumpers, 1 to 127

Ordering Information

A Z Gard S Controller ATO order form is available from the MSA Preferred Products Catalog. Call 1-800-MSA-INST (1-800-672-4678) to obtain a copy of the Preferred Products Catalog CD.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

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