

Z-Gard® S Sensors

Reliable Gas Sensors for Commercial Applications



The Z-Gard S Sensor is designed to detect the presence of carbon monoxide, nitrogen dioxide and combustible gases in air.

Z-Gard sensors employ solid state, electrochemical or catalytic sensors which generate an output signal proportional to the calibrated operating range.



Key Product Features

- 2 sensor output options: 4-20 mA analog output or RS-485 digital signal
- Multifunction LED for sensor status on fault, calibration and normal operation
- Optional switch drive output to percentages of full-scale. This feature is useful for testing remote devices which may be connected to the sensor output
- Easy, non-intrusive one-person calibration of zero and span
- All metal construction
- Field replaceable sensors

*Because every life has a **purpose...***

Z-Gard S Sensor Features

Sensor Communication

All Z-Gard S Sensors are available with a 4-20 mA analog output, or an addressable RS-485 digital signal. Z-Gard Sensors with 4-20 mA can be installed as stand-alone sensors typically integrated with the Z-Gard C Controller, or common commercial equipment including PLC, DCS, or building automation systems. Z-Gard Sensors with RS-485 digital output are specifically designed to operate as a system with any Z-Gard C 485 or Z-Gard CX II Controller.

SOLID STATE CARBON MONOXIDE	Detection Range	0 to 100 ppm or 0 to 200 ppm
	Accuracy	± 10%, Full Scale at STP
	Humidity	25 - 95% RH
	Operating Temperature Range	32 to 104 °F (0 to 40 °C)
ELECTROCHEMICAL CARBON MONOXIDE	Detection Range	0 to 100 ppm or 0 to 200 ppm
	Accuracy	± 5%, Full Scale at STP
	Humidity	0 - 95% RH
	Operating Temperature Range	-4 to 104 °F (-20 to 40 °C)
ELECTROCHEMICAL NITROGEN DIOXIDE	Detection Range	0 to 10 ppm
	Accuracy	± 10%, Full Scale at STP
	Humidity	0 - 95% RH
	Operating Temperature Range	32 to 104 °F (0 to 40 °C)
CATALYTIC COMBUSTIBLE	Detection Range	0 - 100% LEL
	Accuracy	± 5%, Full Scale at STP
	Humidity	0 - 95% RH
	Operating Temperature Range	-4 to 104 °F (-20 to 40 °C)
4-20 MA SENSORS	Operating Power	24 VAC or DC, 150 mA (250 mA for combustible sensor)
	Signal Output	4-20 mA, 3-wire non-isolated, 4-wire isolated
RS-485 SENSORS	Operating Power	24 VAC or DC, 100 mA (250 mA for combustible sensor)
	Signal Output	RS-485, digital communication
ALL Z-GARD S SENSORS	Calibration	Factory calibrated. Sensor can also be field calibrated
	Enclosure	Powder-coated metal double-gang box with 3/4" conduit opening
	Dimensions	5.5" H (140 mm) x 5.5" W (140 mm) x 2.2" D (56 mm)
	Certification	cCSAus C22.2 NO. 61010-1; Fire, Shock and Safety

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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