Z-Gard® DS Sensors

Reliable Gas Sensors for Commercial Applications



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
- 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
- Field replaceable sensors



Z-Gard S Sensor Features

Sensor Communication

All Z-Gard DS Sensors are available with an addressable RS-485 digital signal, or a 4-20 mA analog output. 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 CXII Controller. 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. In parking garage applications both CO and NO2 are monitored at the same level within the breathing zone.

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)
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
Z-GARD DS SENSORS	Calibration	Factory calibrated. Sensor can also be field calibrated.
	Enclosure	Polycarbonate enclosure
	Dimensions	10.5" H (267 mm) x 8.5" W (216 mm) x 4.5" D (114 mm)
	Certification	cCSAus; C22.2 NO. 61010-1; Conforms to UL 61010-1

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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