

The Z Gard DS Sensor is designed to detect the presence of carbon monoxide and nitrogen dioxide gases in parking garages, vehicle storage areas or wherever else these two toxic gases could be found. The sensors employ electrochemical sensors, which generate a representative output signal proportional to the calibrated operating range. Z Gard DS Sensors are available with two output versions; an addressable RS-485 digital signal or a version with separate 4-20mA analog outputs for the two gases. The Z Gard DS 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 DS Sensor with 4-20mA outputs 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.

- Plastic NEMA 4X enclosure.
- Housing includes separate field-replaceable electrochemical sensors for carbon monoxide and nitrogen dioxide.
- Two sensor output options: 4-20mA analog outputs or a RS-485 digital signal.
- Sensor status is shown by the green OK LEDs, indicating that the device is operating properly.
- Jumpers to drive the output to percentages of full-scale. This feature is useful for testing remote devices, which may be connected to the sensor output.



Specifications

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Z Gard DS Sensor	
Detection Range	
Carbon monoxide	Standard- 0-100 ppm
Nitrogen dioxide	Standard- 0-10 ppm
Sensors	Plug-in, electrochemical sensing elements
Accuracy	±5%, full scale (FS)
Humidity	0 - 95% RH
Temperature	
Operating	0° to 40°C (32° to 104°F)
Storage	-10° to 50°C (14° to 122°F)
All Z Gard DS Sensors	
Calibration	Factory-calibrated. Sensors can also be field-calibrated.
Standard Enclosure	Plastic enclosure
Dimensions	10.5" W x 8.5" L x 4.5" D
Certification	ENTELA (to CSA Standards)
Z Gard DS 4-20mA Sensors	
Operating Power	24 VAC or DC 100mA used with MSA Z Gard Controllers or commercial DCS and PLC devices
	24 VAC 100mA used with commercial DCS and PLC devices
Signal Outputs	4-20mA analog, 3-wire, point-to-point connection
Z Gard DS RS-485 Sensors	
Operating Power	24 VDC, 100mA used with MSA Z-Gard C Controllers
Signal Output	RS-485, 4-wire network connection
Function Selection	Network Address jumpers, 1 to 127

Ordering Information

Z Gard DS Sensor with 4-20mA Outputs Z Gard DS Sensor with RS-485 Output

MSA P/N 10063811 MSA P/N 10063812

Note: This Data Sheet contains only a general description of the product shown. While uses and performance capabilities are described, under no circumstances should the product be used except by qualified, trained personnel, and not until the instructions, labels or other literature accompanying the product have been carefully read and understood and the precautions therein set forth followed. Only they contain the complete and detailed information concerning this product.

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