## Z-Gard<sup>®</sup> COmbo Gas Monitor

Reliable Standalone Carbon Monoxide Gas Monitor for Commercial Applications





The MSA Z-Gard COmbo Gas Monitor features an integrated carbon monoxide sensor, and is ideal for use in small garage monitoring and ventilation control applications. Generally wall-mounted in the area where the target gas is to be measured, the Z-Gard COmbo Gas Monitor can also act as a controller, managing up to seven additional remote Z-Gard Gas Sensors via RS-485 serial data bus connections.



- Integrated carbon monoxide sensor.
- 100 and 200 ppm full scale ranges available.
- Local audible/visual alarm status indication.
- Relay contact outputs interface with air handling equipment to control the vehicle exhaust emissions or general air quality inside buildings.
- Two levels of alarm, plus fault relays are field programmable.
- The alarm relay can be made to latch in the activated position even after the alarm has been cleared.
- Pushbutton to silence an audible alarm or reset the latching alarm relays.

- Sensor status feature provides an indication if either the integral sensor or any other remote sensor fails to communicate properly.
- Additional Z-Gard remote gas sensors may be connected to the monitor's RS-485 network port. CO, NO<sub>2</sub>, LEL Combustible
- 4-20 mA output representing the highest reading generated from the remote sensors and onboard sensor.
- Units available with LED readouts and status LEDs or status LEDs only
- 4-20 mA analog output can be integrated with PLC, DCS or building automation systems.



SPECIFICATIONS		
POWER REQUIREMENTS: STANDARD OPTIONAL	110 VAC, 50/60 Hz at 0.5 amps 220 VAC, 50/60 Hz at 0.25 amps or 24 VDC at 1.5 amps	
DIGITAL SIGNAL INPUT	RS-485, serial network for remote sensor connections	
4-20 mA OUTPUT	Exhibits the highest reading derived from all associated sensors	
DIGITAL READOUT	4-digit LED display; First digit for channel number, three digits for gas concentration readings	
STATUS DISPLAY	Standard LED for Power, Warning, Alarm and Sensor Status	
NUMBER OF RELAYS	3; 2 alarm, 1 fault	
RELAY ACTION	10 A/125 VAC; 5 A/30 VDC Energized/non-energized; Latching/non-latching	
WARNING & ALARM SET-POINTS	Field-adjustable and factory-set at 25% and 50% full scale	
TIME DELAYS	5 minutes ON delay for alarm and 5 minutes OFF delay for warning or selected with NO delay action	
AUDIBLE DEVICE	93 dB at 0.3 meters with solid ON or user-selected variable option	

SPECIFICATIONS		
TEMPERATURE: OPERATING STORAGE	32 to 104 °F (0 to 40 °C) 14 to 122 °F (-10 to 50 °C)	
PUSHBUTTON	Alarm relay and audible device reset	
ENCLOSURE: STANDARD	Metal NEMA 1	
DIMENSIONS	8.25″ H (210 mm) x 8.25″ W (210 mm) x 4.0″ D (102 mm)	
CERTIFICATION	cCSAus; C22.2 No 142-M1987, UL916	
SENSING TECHNOLOGY	Solid state, MOS element	
OPERATING RANGE	0-100 & 0-200 ppm available	
ACCURACY	±5%, full scale (FS)	
HUMIDITY	0 - 95% RH	



ORDERING INFORMATIC	N		
Z-GARD COMBO SOLID STATE GAS MONITOR 10063787 10063788	10063786	Z-Gard COmbo Monitor	0-100 ppm w/status LEDs
	10063787	Z-Gard COmbo Monitor	0-100 ppm w/digital readout & status LEDs
	10063788	Z-Gard COmbo Monitor	0-200 ppm w/status LEDs
	10063789	Z-Gard COmbo Monitor	0-200 ppm w/digital readout & status LEDs

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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 MSA Corporate Center

 1000 Cranberry Woods Drive

 Cranberry Township, PA 16066 USA

 Phone
 724-776-8600

 www.MSAsafety.com

 U.S. Customer Service Center

 Phone
 1-800-MSA-INST

 Fax
 1-800-767-0398

 MSA Canada

 Phone
 1-800-672-2222

 Fax
 1-800-967-0398

 MSA Mexic>

 Phone
 01 800 672 7222

 Fax
 52 - 44 2227 3943

 MSA Inter-tional

 Phone
 724-776-8626

 Toll Free
 1-800-672-7777

 Fax
 724-711-1559

msa.international@msasafety.com

Email

## Offices and representatives worldwide

For further information:

