

# Z-Gard® COmbo Gas Monitor

Reliable Standalone Carbon Monoxide Gas Monitor for Commercial Applications



**Ti** Techingenium

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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.

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

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

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



ORDERING INFORMATION			
Z-GARD COMBO SOLID STATE GAS MONITOR	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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