

Because every life has a purpose...



MSA Z-Gard[®] Sensors and Controllers



Product Line Overview



Z-Gard Sensors



Z-Gard Controllers



Product Line Overview

Z-Gard S Sensor



*A single, point diffusion sensor for the sensing of carbon monoxide, nitrogen dioxide and **combustible gas (NEW!)**.*

Z-Gard DS Sensor

A single, point diffusion sensor offering dual carbon monoxide and nitrogen dioxide sensing capabilities in one package.

Product Line Overview

Z-Gard CX II Controller

NEW

A highly configurable controller with up to 99 sensor inputs and 12 configurable relay outputs. The system supports 8 zones and has the option of communicating to building automation systems through BACNet.

Z-Gard C Controller

A flexible controller platform that can accept sensors communicating through 4-20 mA. The system supports up to eight sensor inputs.

Product Line Overview

Z-Gard C 485 Controller

Platform accepts sensors communicating through RS485. Offers 8, 16 and 24 point configurations. Single and dual zone capability.

Z-Gard CCombo

A cost effective controller with integrated CO sensor. Includes 3 integrated relays, horn and reset button. Up to 7 RS-485 Z-Gard S sensors can interface with the device.

Z-Gard S Sensor Configurations

■ Available Gases and Range

- Carbon Monoxide (CO) MOS – 100 and 200 ppm FS
- CO Electrochemical Sensor – 100 and 200 ppm FS
- NO₂ Electrochemical Sensor – 10 ppm FS
- Combustible Gas – 100% LEL FS

■ Signal Output

- 4-20 mA
- RS 485 Digital Communication

MOS: Metal Oxide Sensor
FS: Full Scale

Sensor Specifications

Solid State CO	Detection Range	0 to 100 ppm or 0 to 200 ppm
	Accuracy	+/- 5%, Full Scale
	Humidity	25 – 95% RH
	Operating Temperature Range	0° to 40°C (4° to 104°F)
Electrochemical CO	Detection Range	0 to 100 ppm or 0 to 200 ppm
	Accuracy	+/- 5%, Full Scale
	Humidity	0 – 95% RH
	Operating Temperature Range	-20° to 40°C (-4° to 104°F)
Electrochemical NO ₂	Detection Range	0 to 10 ppm
	Accuracy	+/- 5%, Full Scale
	Humidity	0 – 95% RH
	Operating Temperature Range	0° to 40°C (4° to 104°F)
Catalytic Combustible	Detection Range	0 to 100% LEL
	Accuracy	+/- 5%, Full Scale
	Humidity	0 – 95% RH
	Operating Temperature Range	-20° to 40°C (-4° to 104°F)

Calibration Improvements

Calibration of the new Z-Gard S sensors is easier than ever!

- Calibration adjustment for zero and span occur automatically.
- The user initiates zero calibration and span calibration through use of a magnet.
- All the user then needs to do is apply zero and span gas at the appropriate times.



Controller Specifications

Z Gard C	Sensor Inputs	8 points
	Zones	single
	Signal Input	4-20 mA
	Output	4-20mA High Select
Z Gard C485	Sensor Inputs	8, 16, 24 points
	Zones	8,16: single; 16, 24: 2 zones
	Signal Input	RS 485
	Output	4-20mA High Select
Z Gard CXII	Sensor Inputs	Up to 99 points
	Zones	Up to 8
	Signal Input	RS 485
	Output	BACnet; ModBus
Z Gard COmbo	Sensor Inputs	CO on controller, <i>plus 7</i> remote points
	Zones	N/A
	Signal Input	RS 485
	Output	4-20 mA High Select

CXII Controller

NEW

- Hosts up to 99 Z-Gard sensors.
- User-programmable zoning; up to 8 discrete zones, each with voting assignment.
- 4 internal relays for caution, warning, alarm and fault with ability to attach additional relay modules.
- Integral buzzer and optional field-mountable strobe.
- Modbus RTU or BACnet MS/TP communication for seamless integration with commercial and building automation systems.



Marketing Assets

- Go to www.msagasdetection.com to view all of the available literature on the Z-Gard Product Line

Product Brochures



Sensors



Controllers



COMbo

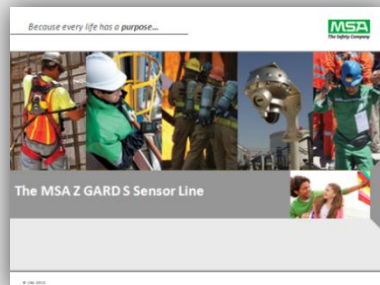
MSA-U on Calibration



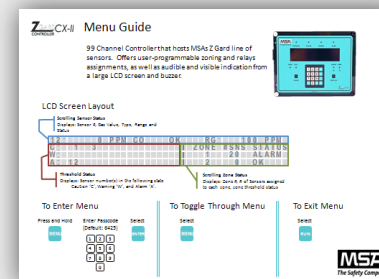
MSA-TV on Product Line



Product Line Presentation



CXII Menu Guide



Industries

- *Underground Parking*
- *Enclosed Truck Docks*
- *Vehicle Maintenance Facilities*
- *Airport and Courier Transfer Stations*
- *Transit Facilities*

Applications

- *Ventilation Control, Personal Safety*
- *Energy Management*

MSA Value Contributors



MSA sales and technical support

Authorized field service representatives

Varied Product Mix

Fast turnaround time

On-line product training

HVAC experience