Z-Gard® C 485 **Controller**

Reliable Microprocessor-Based Controllers for Commercial Applications

MSA
The Safety Company

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The Z-Gard C 485 Controller accepts RS-485 from remote Z-Gard sensors. The controller automatically detects attached sensors and determines their full-scale value. Set points and readout displays are automatically adjusted to match the sensor operating range. Ideal for protection in small to mid-sized single and dual zone applications.

Key Product Features

• Accepts up to 8, 16 or 24 Z-Gard Sensor with RS-485 digital inputs
• Large LED readout display scans through active channels at 2-second intervals
• Available with one or two zones
   • 2-zone option accepts sensor inputs in two groups
   • 2-zone alarm feature with function jumper selection can be used to program alarm relay action and number of remote sensors

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

Z-Gard C 485 Controller Features

Outputs

A variety of output options are available to integrate with common commercial equipment, including PLCs or building automation systems. Controllers include audible and visual LED alarm status indication. Relay configurations are available for warning, alarm and fault alert. Z-Gard C 485 Controllers include a LED digital readout to display the active channel and corresponding gas value.

Outputs

- Status LEDs provide quick indication of system status.
- Audible alarm featuring reset and local alarm silence pushbutton.
- 4-20 mA high select option provides analog output signal derived from highest gas concentration level reported by remote sensors. This signal represents readings from 0-100% full scale.

Features	Z-Gard C 485
INPUT POINTS	8, 16, 24
AVAILABLE ZONES	Single zone units 8 & 16; Dual zone units 16 & 24
SIGNAL INPUT	Z-Gard RS-485
AUDIBLE ALARM	Unit mounted with local reset
RELAY OUTPUTS	3 per zone, Form C
DISPLAY	4-digit LED
ENCLOSURE	Metal NEMA 1
STROBE	N/A
SIGNAL OUTPUT	4-20 mA high select
Specifications	
POWER REQUIREMENTS: 8- AND 16-POINT UNITS 24-POINT UNIT	Standard, 110 VAC, 50/60 Hz ± 10% at 0.5 amps Standard, 110 VAC VAC, 50/60 Hz ± 10% at 1.0 amps Optional, 220 VAC, 50/60 Hz ± 10% at 0.5 amps
ZONES	8-point controllers are only available as single zone 16-point controllers are available as single or 2 zones 24-point controllers are available with 2 zones
SENSOR SIGNAL INPUT	RS-485 serial network from Z-Gard sensors
RELAY CONTACTS RATING	10 A/125 VAC; 3 A/30 VDC Energized/non-energized; Latching/non-latching
RELAY OUTPUTS PER ZONE	3; common warning, alarm and fault
OPERATING TEMPERATURE	14 to 104 ˚F (-10 to 40 ˚C)
STORAGE TEMPERATURE	-4 to 122 ˚F (-20 to 50 ˚C)
DIGITAL READOUT	Point number plus 3-½ digits
STATUS DISPLAY PER ZONE	Common LED for warning, alarm, and sensor status, plus LEDs for power and system OK
ALARM & WARNING SET-POINTS: FIELD-ADJUSTABLE FACTORY-SET AT	Warning – 35% full scale Alarm at 50% full scale
ENCLOSURE	Standard – metal NEMA 1
WEIGHT: 1-ZONE MODELS 2-ZONE MODELS	10 lb. (4.5 kg) 15 lb. (6.8 kg)
DIMENSIONS: 1-ZONE MODELS 2-ZONE MODELS	11.5" H (292 mm) x 10" W (254 mm) x 3.75" D (95 mm) 15" H (381 mm) x 12" W (305 mm) x 3.75" D (95 mm)
APPROVALS	cCSAus; C22.2 No.142-M1987, UL916

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