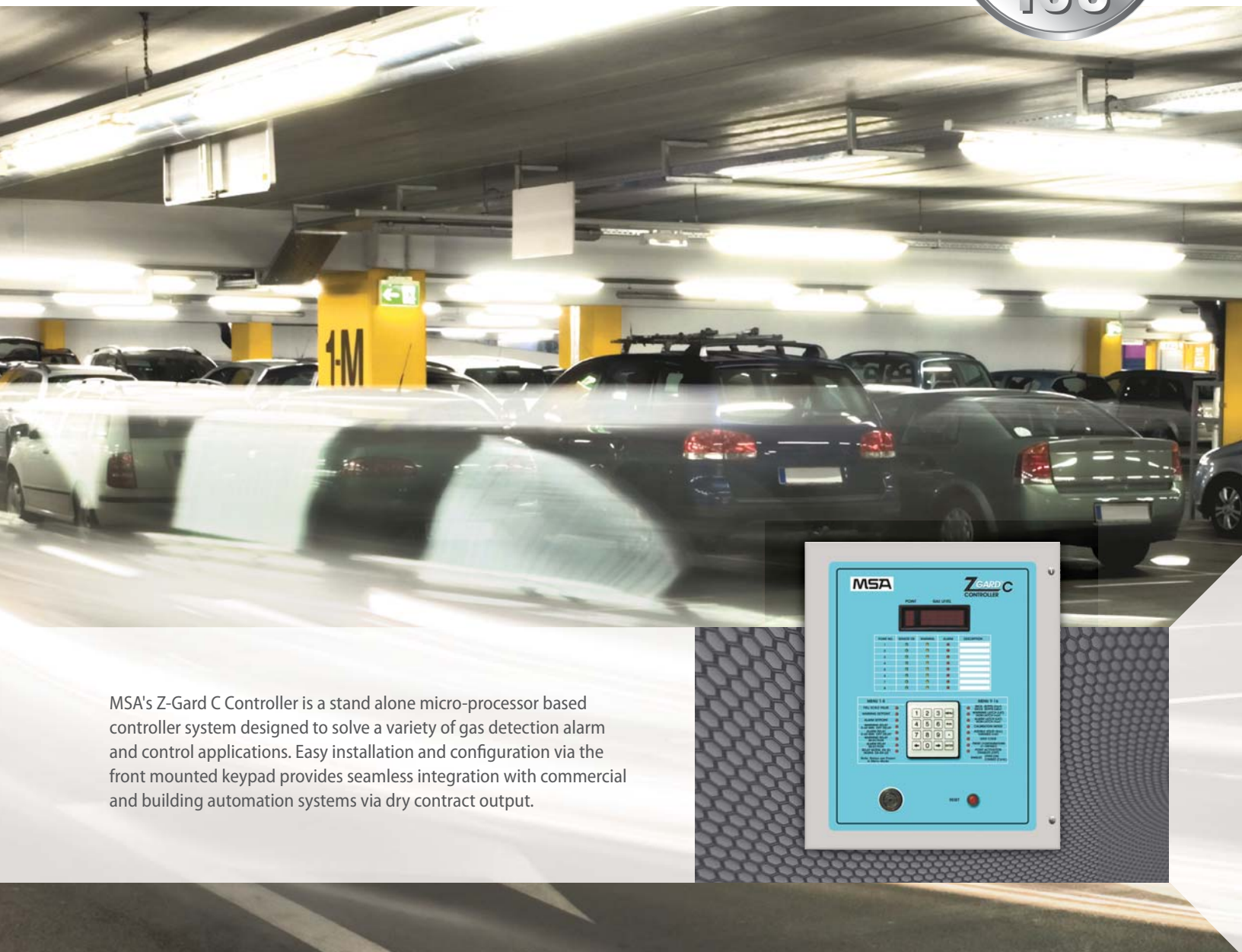# Z-Gard® C **Controller**

Reliable Microprocessor-Based Controller for Commercial Applications

MSA's Z-Gard C Controller is a stand alone micro-processor based controller system designed to solve a variety of gas detection alarm and control applications. Easy installation and configuration via the front mounted keypad provides seamless integration with commercial and building automation systems via dry contract output.

Key Product Features

- Accepts a maximum of 8 sensor inputs; RS-485 or 4-20 mA and provides real time target gas readings.
- Features a keypad user-interface located on the front panel.
- Display scans active channels at 2-second intervals.
- Relay outputs include 8 programmable and 2 common.
- Fail safe operation.
- Includes 24 VDC power supply to power all external sensors.

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

Z-Gard Controller Features

Sensor Communication

Z-Gard C Controller accepts 4-20 mA 2-wire current loop powered or 3-wire 4-20mA inputs. 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.

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. A wide variety of relay configurations are available for warning, alarm, and sensor fail. Z-Gard C Controllers incorporate a digital readout to display the active channel's corresponding gas valve.

Outputs

- Status LEDs provide quick indication of system status.
- Unit mounted visual alarm and audible alarm featuring reset and local alarm silence push button.
- 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
INPUT POINTS	8
ZONES	1
SIGNAL INPUT	4-20 mA
AUDIBLE ALARM	Standard with reset
RELAY OUTPUTS	10, Form C
DISPLAY	4-digit LED
ENCLOSURE	Metal NEMA 1
STROBE	Optional
SIGNAL OUTPUT	4-20 mA high select
Specifications	
INPUT POINTS	8
POWER REQUIREMENTS	Power Current 110 VAC, 50/60 Hz ± 10% 2.50 A 220 VAC, 50/60 Hz ± 10% 1.25 A
ZONES	Single Zone
SIGNAL INPUT	4-20 mA, 2- or 3-wire connection, Z-Gard RS-485 digital sensor input
NUMBER OF RELAYS	10; 8 programmable, 2 common
RELAY ACTION	10 A/125 VAC; 5 A/30 VDC Energized/non-energized; latching/non-latching
OPERATING TEMPERATURE RANGE	14 to 104 °F (-10 to 40 °C)
STORAGE TEMPERATURE	-4 to 122 °F (-20 to 50 °C)
DIGITAL READOUT	4-digital LED with sequential scanning features
ENCLOSURE	Standard – metal NEMA 12
WEIGHT	10.0 lb. (4.5 kg)
DIMENSIONS	15" H (381 mm) x 12" W (305 mm) x 3.75" D (95 mm)
APPROVALS	cCSAus; C22.2 No.142-M1987, UL916

Offices and representatives worldwide
For further information: