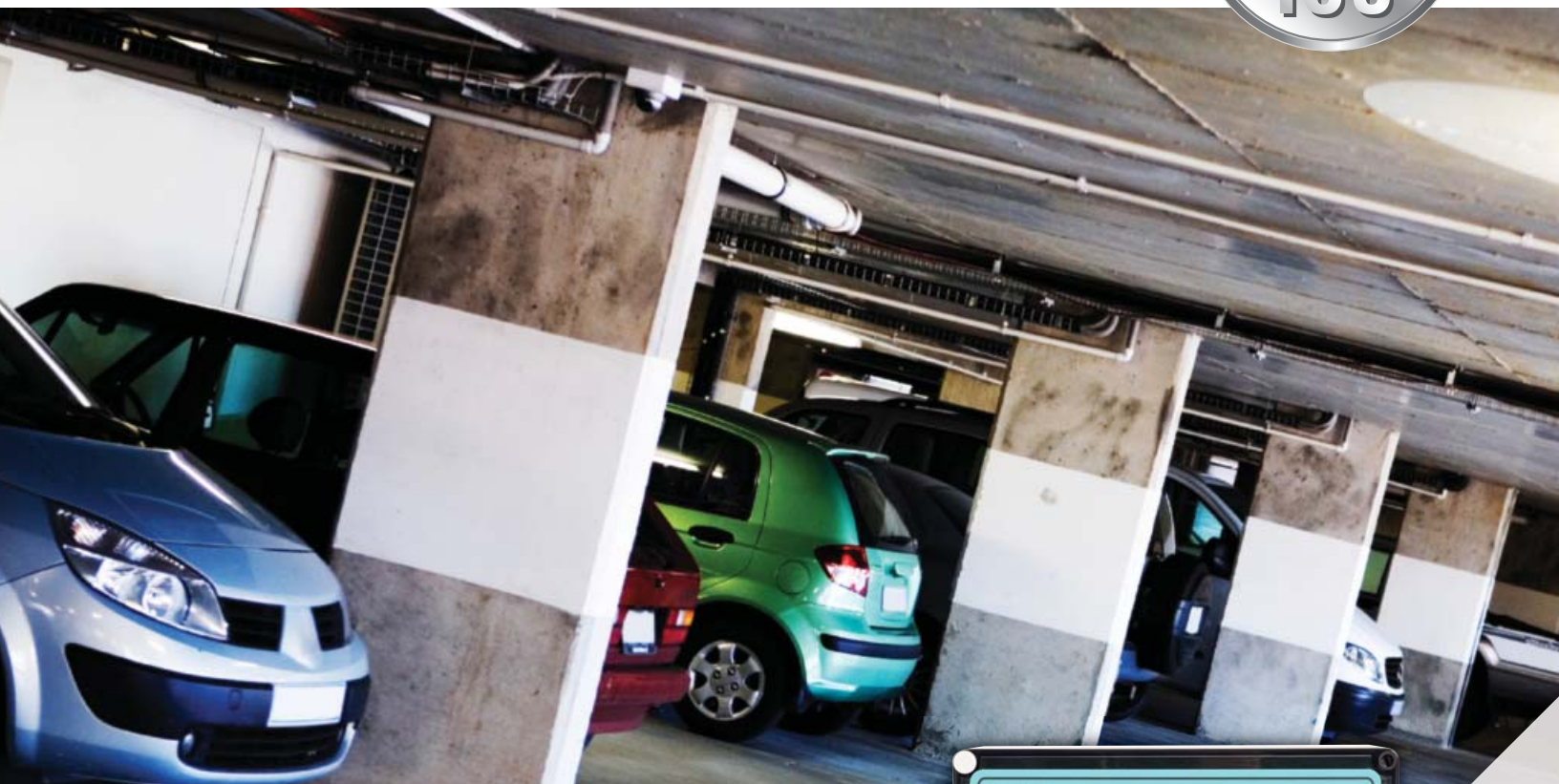# Z-Gard® CX II **Controller**

Reliable Microprocessor-Based Controllers for Commercial Applications

Z-Gard CX II Controller includes digital communication output via BACnet MS/TP or Modbus RTU. This micro-processor based controller can manage up to 99 Z-Gard sensors. The controller automatically detects the type of sensor connected and output range for easy system configuration. All data is seamlessly integrated directly to the building automation system.

Key Product Features

- Hosts up to 99 sensors on up to 3 trunks with RS-485 output
- Supports customized applications via programmable operating parameters organized by a menu interface keyboard
- Password-protected to prevent unauthorized access
- User-programmable zoning; up to 8 discrete zones
- Programmable alarm relays can be configured for normally-energized or de-energized (fault relay is always normally-energized), and latching or non-latching

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

Z-Gard CX II Controller Features

Sensor Communication

The Z-Gard CX II Controller will communicate directly to the BMS System via BACnet MS/TP or Modbus RTU output. This reduces wiring needs, while improving the amount of data control available. 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. Relay configurations are available for a warning, alarm and fault alert. Z-Gard Controllers incorporate a digital readout to display the active channel's corresponding gas valve.

Other Outputs

- ModBus RTU or BACnet MS/TP digital output for integration with commercial and building automation systems.
- Large LCD screen, audible/visual indication, and relay contact outputs.
- Auto-recognition of failed communication. If any active remote device should fail to communicate on the RS-485 network, system OK LED will turn OFF and fail relay will initiate notification.
- Time delays: menu-selected OFF delays, adjustable from 0 to 600 seconds for warning and alarm.

Features	Z-Gard CX II
INPUT POINTS	Up to 99
ZONES	Up to 8
SIGNAL INPUT	RS-485
AUDIBLE ALARM	Standard with reset
RELAY OUTPUTS	4 programmable relays, 10A/125V DPDT Relays
DISPLAY	4-line x 40 character backlit LCD
ENCLOSURE	Polycarbonate, NEMA 4X
STROBE	Optional
SIGNAL OUTPUT	BACnet MS/TP or Modbus RTU
Specifications	
POWER REQUIREMENTS	17-27 VAC or 24-38 VDC, 0.3 A
ZONES	99 points; 8 configurable zones
SENSOR SIGNAL INPUT	RS-485 serial network, Z-Gard sensors
RELAY ACTION	10 A/125 VAC ; 5 A/30 VDC Energized/non-energized; Latching/non-latching
RELAY TIME DELAYS	Menu-selected OFF delays, adjustable from 0 to 600 seconds for Warning and Alarm, effectively common to all active channels
OPERATING TEMPERATURE	14 to 131 ˚F (-10 to 55 ˚C)
STORAGE TEMPERATURE	-4 to 131 ˚F (-20 to 55 ˚C)
USER INTERFACE	Front panel monitor keypad provides menu-driven operating parameters
DIGITAL DISPLAY SCREEN	4-line x 40-character backlit LCD screen displays operating, alarm, and fault diagnostic system status
REMOTE DISPLAY	4-pack relay modules
STATUS DISPLAY	Common LEDs for System OK – green, Warning – amber, Alarm – red, Sensor Fail – red
AUTO-CONFIGURATION FEATURE	Digitally-recognized remote sensors: each device residing on RS-485 serial data bus shall be automatically assigned as a network node.
ALARM & WARNING SET-POINTS	Adjustable from 1 to 99% of operating range for each system sensor type
STROBES OPTIONS	Optional field-mounted strobe. (works only with AC power)
SIGNAL OUTPUT	ModBus RTU; BACnet MS/TP, dry contact
ENCLOSURE	Polycarbonate, conforms to NEMA 4X
WEIGHT	2.5 lbs. (1.2 kg)
DIMENSIONS	7" H (178 mm) x 10" W (254 mm) x 3.75" D (95 mm)
APPROVALS	cETLus; C22.2 No.601010-1, UL 61010-1

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   1-800-967-0398

MSA Canada
Phone   1-800-672-2222
Fax   1-800-967-0398

MSA Mexico
Phone   01 800 672 7222
Fax   52-44 2227 3943

MSA International
Phone   724-776-8626
Toll Free 1-800-672-7777
Fax   724-741-1559
Email   msa.international@msasafety.com

Offices and representatives worldwide
For further information: