

Represented by



Demand Controlled Ventilation For Parking Garages PolyGard®1 Series



Carbon Monoxide (CO) Detection and Control Systems for Parking Structures



Overview of Standards for Carbon Monoxide (CO) Detection Products



IMC 2018 Changes Affecting Parking Garage Exhaust Systems Implementation



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Specifications subject to change.

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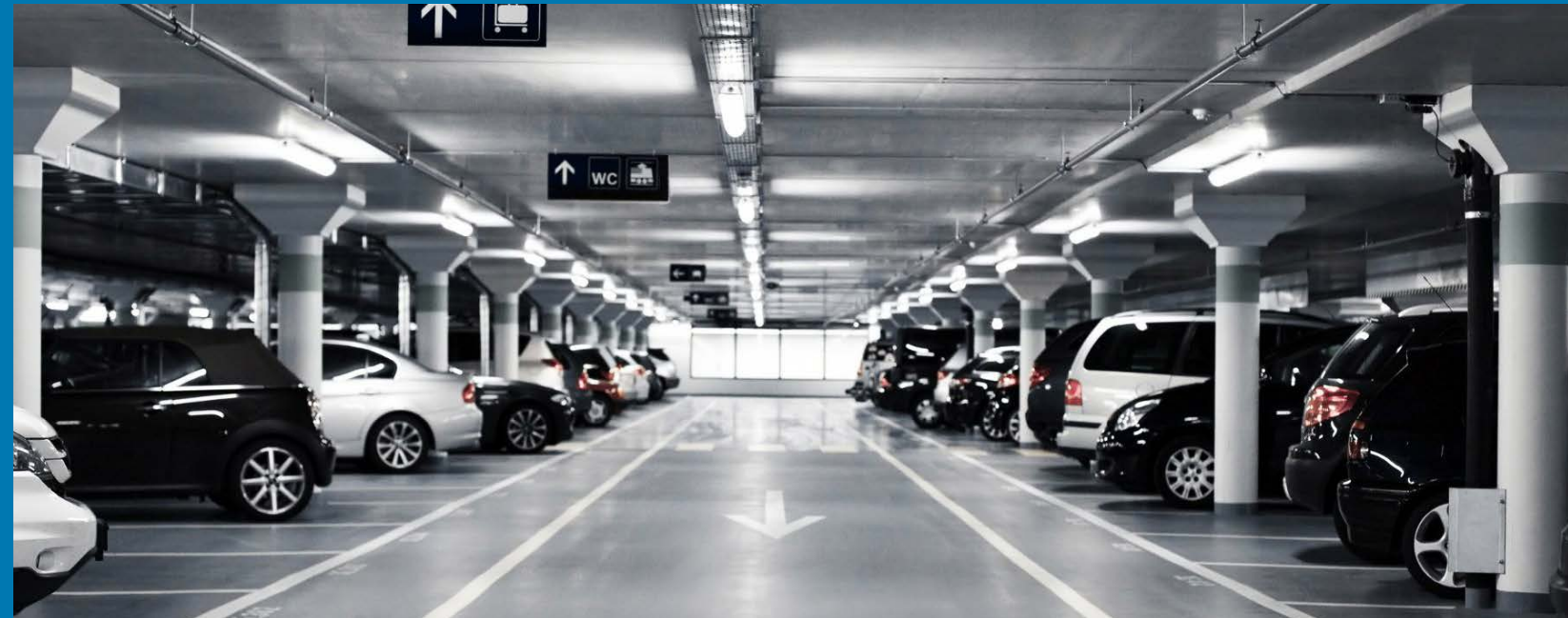
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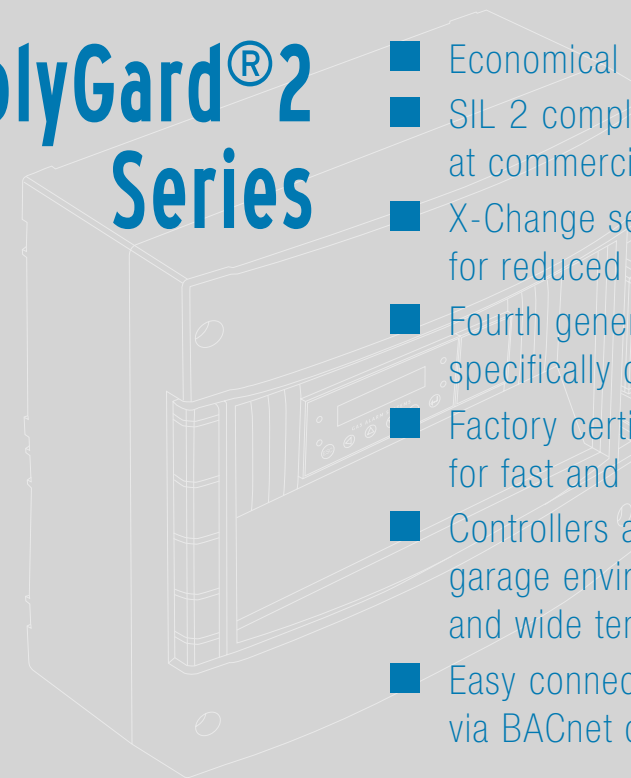


DEMAND CONTROLLED VENTILATION FOR PARKING GARAGES



Carbon Monoxide • Nitrogen Dioxide • Natural Gas • Toxic/Comb/Refrigerant

PolyGard®2 Series



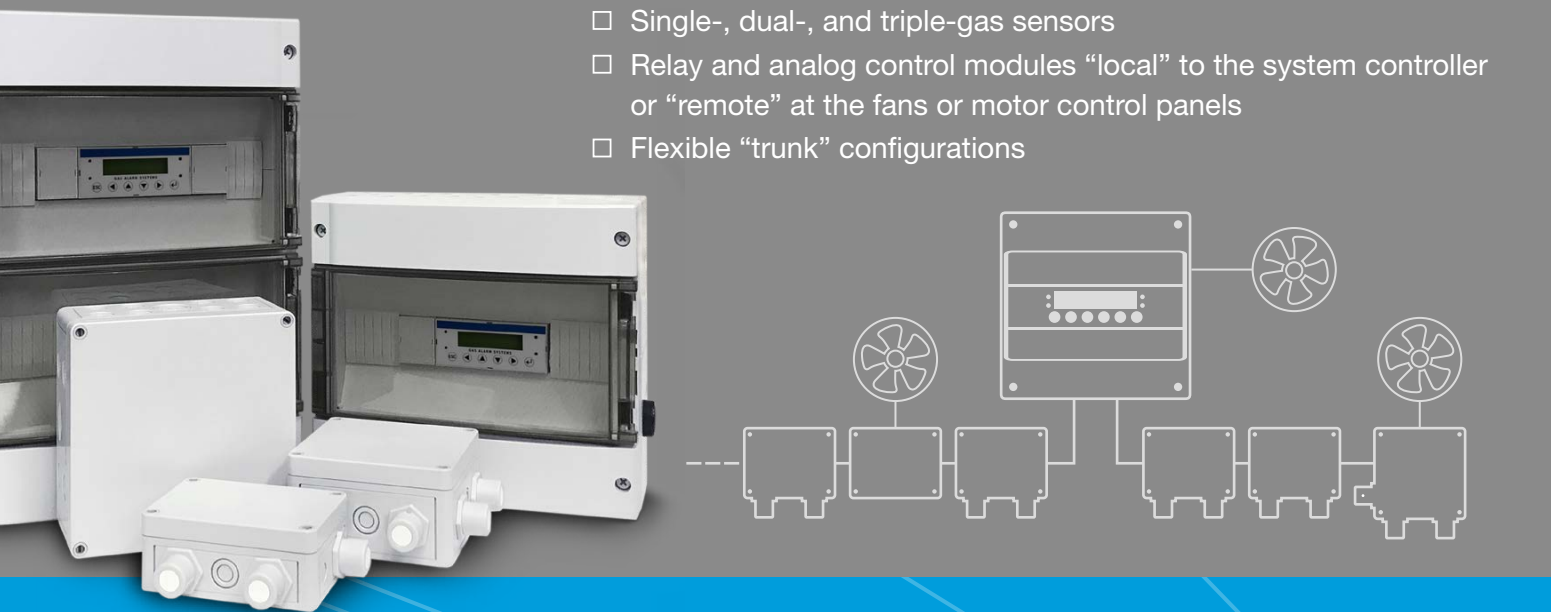
- Economical to install; easy to maintain
- SIL 2 compliance means industrial grade reliability at commercial grade cost
- X-Change sensor technology for reduced life-cycle maintenance cost
- Fourth generation monitoring and control functions specifically designed for global best practices
- Factory certified systems engineering for fast and easy installation and startup
- Controllers and sensors designed for the harsh garage environment: dust tight, moisture tight, and wide temperature range
- Easy connectivity to Building Automation Systems via BACnet or Modbus

INDUSTRIAL GRADE RELIABILITY AT COMMERCIAL GRADE COST



DGC6: Digital RS-485 Gas Detection System

- Digital systems with networked sensing and control devices
 - **Up to 96 daisy-chained sensors**
 - Saves wire & conduit cost vs. analog system
- Single-, dual-, and triple-gas sensors
- Relay and analog control modules “local” to the system controller or “remote” at the fans or motor control panels
- Flexible “trunk” configurations



PolyGard®2

“ **2018 International Mechanical Code.** 404.1 Enclosed Parking Garages. Mechanical ventilation systems for enclosed parking garages shall operate continuously or shall be automatically operated by means of carbon monoxide detectors applied in conjunction with nitrogen dioxide sensors. Such detectors shall be listed in accordance with UL 2075 and installed in accordance with their listing and the manufacturers’ instructions. Automatic operation shall cycle the ventilation system between the following two modes of operation:

1. Full-on at an airflow rate of not less than 0.75 cfm per square foot of the floor area served.
2. Standby at an airflow rate of not less than 0.05 cfm per square foot of the floor area served.”¹

¹ International Code Council, (2018) International Mechanical Code 2018. Florence, KY: Cengage Learning.



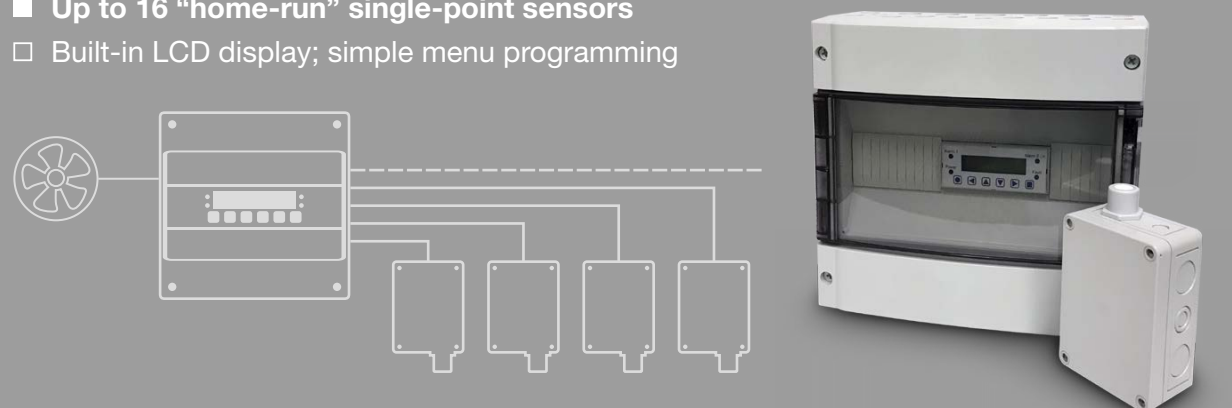
PolyGard®2 Series systems and sensors are certified to rigorous international standards for **Performance and Reliability**



- UL 2075
- ANSI/UL 61010-1
- CAN/CSA-C22.2 No. 61010-1
- EN 50545-1
- CA Title 24 Compliant
- City of LA Approved
- SIL 2

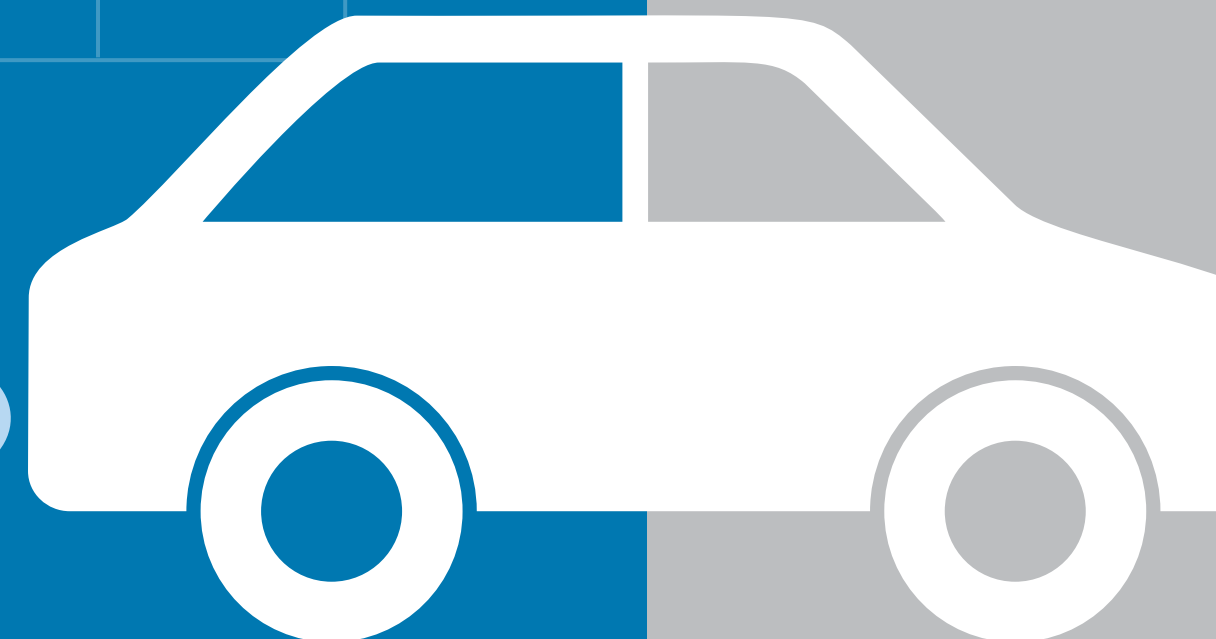
MGC2: Analog Gas Detection System

- Analog multi-point gas detection system
- **Up to 16 “home-run” single-point sensors**
- Built-in LCD display; simple menu programming



Energy Efficient Ventilation Controls for Parking Garages ... Because Cars Have Tailpipes

CO
NO₂
CH₄



SGC6: Standalone Gas Controller

- **Up to 3 sensors**
- Built-in relays & alarms



SC2: X-Change Sensors

- Modular plug and play replacements