

MultiGard™ 5000

Multipoint Gas Sampling System



Simple, reliable gas sampling system uses a common set of analyzers for up to 32 locations. Efficient, cost-effective, and easy to maintain.

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

MultiGard 5000 Multipoint Gas Sampling System



Features

- Includes up to four sensors/analyzers
- Modular construction allows simple installation and maintenance
- Easy setup via front touch-screen panel display
- Auto-standardization
- Common alarm and fault relays
- Gas flow failure indication
- Flexible sample point order
- Adaptable sampling time
- Options include discrete relays and Modbus TCP/BACnet IP output



MultiGard 5000 Gas Sampling System

- Gas samples are drawn from remote locations and delivered to customer-selectable internal analyzers.
- Maintenance and calibration are simplified because all maintenance is performed at a single location.

Efficiency

- Efficient, cost effective gas detection method.
- Gas samples are sequentially delivered to internal analyzers.
- Timesharing the analyzers between many monitored locations provides significant cost savings.
- This system can include up to four analyzers, reducing floor space, eliminating multiple systems, duplicate tubing, and unnecessary maintenance.
- Bypass flow system minimizes sampling cycle time

Reliability

- Reliability is enhanced through the use of a single set of analyzers, reducing replacement cost and lowering cost of ownership
- Maintenance and calibration are simplified because all maintenance is performed at a single location.
- All calibrations are completed at the MultiGard 5000 System analyzer(s), with no need to enter the monitored area.
- Manual or auto-standardization of sensors or analyzers when desired

Control

To alert personnel, four common relays are provided. Additional user-configurable relays are available for discrete alarms. Gas concentrations and alarm settings can be exported to a flash drive in .CSV format.

Flexibility

- MultiGard 5000 System adapts to provide optimum time for a given analyzer.
- Each location can have a different sample transport time (based on line length).
- Critical sampling points can be sampled more frequently.
- An optional dual- sequencer system can be used, in which up to two analyzers are dedicated to each half of the sampling points
- Data stored on SD card for easy transfer.

Connectivity

- The MultiGard 5000 System directly connects to Modbus TCP or BACnet IP networks, industry-standards which permit communication to other equipment or controllers. Via these protocols, the MultiGard 5000 Gas Sampling System links to most distributed communication system networks.
- Remote option allows viewing of current readings and controlling of the system settings from any location.

Typical Applications

- Parking garage ventilation systems
- Curing or finishing processes
- Process control
- LNG or CNG transport ships
- Perimeter monitoring
- Ambient or IAQ (indoor air quality) monitoring
- Solid foam production
- Hydrogen furnaces
- Semiconductor manufacturing
- Aerosol packaging
- Food & beverage
- Bus, vehicle facilities, and tunnels

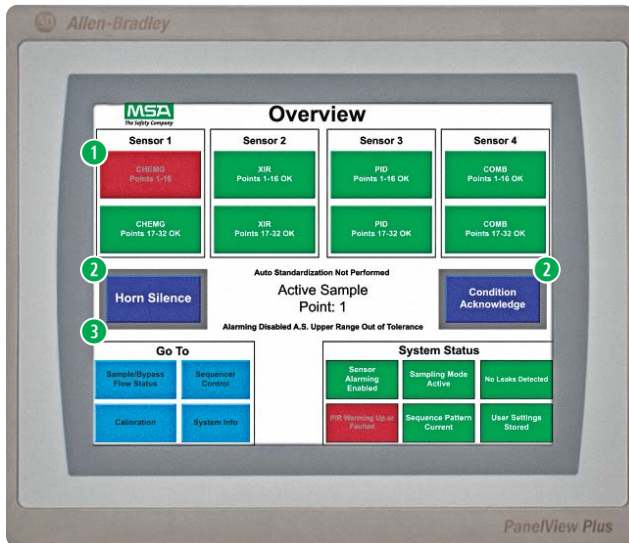


Security

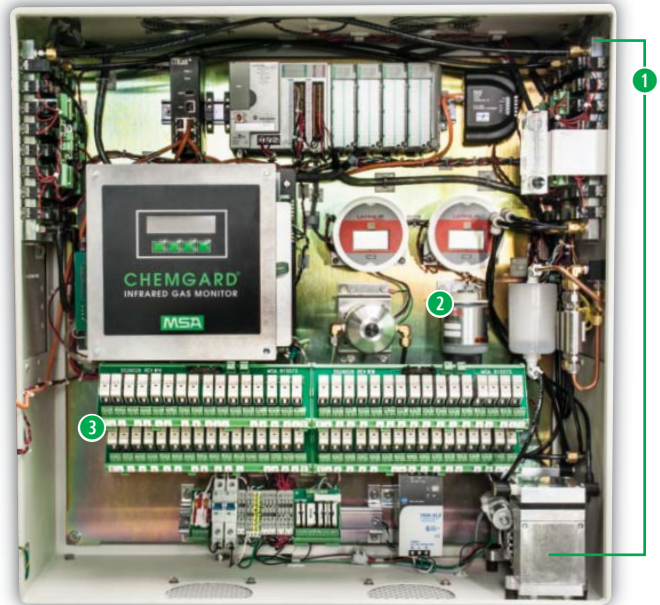
- A password is needed to change any system parameter.
- Internal battery will keep all data intact for up to two years.



Overview screen provides quick visual indication of MultiGard 5000 System status



- 1 Visual indication of sensor condition
- 2 Fast acknowledgement of alarm conditions
- 3 Easy access to scroll-down menus



- 1 Flow scheme designed to meet specific application
- 2 Choice of up to four sensors/analyzers
- 3 Optional relays provide alarm and fault indication for all sample points

MultiGard 5000 Multipoint Gas Sampling System



| Specifications | |
|-------------------------------|--|
| ENCLOSURE | NEMA, General purpose for non-hazardous areas enclosure rating |
| DIMENSIONS | |
| 8/16/DUAL 8 | 24" x 30" x 12" (609.6 x 762 x 304.8 mm) W x H x D |
| 24/32/DUAL 16 | 30" x 30" x 12" (762 x 762 x 304.8 mm) W x H x D |
| WEIGHT | |
| 8/16/DUAL 8 | 125 lbs. (56.7 kg) |
| 24/32/DUAL 16 | 150 lbs. (68 kg) |
| OPERATOR INTERFACE | |
| TYPE | Integrated color TFT touch-screen display |
| SIZE | 10.5" (267 mm) diagonal |
| POWER REQUIREMENTS | 5 amp @ 115 VAC, 60 Hz, single sequencer systems 10 amp @ 115 VAC, 60 Hz, dual sequencer systems Electrical entry through gasketed gland plate |
| OUTPUTS | |
| COMMON RELAYS | Form C contacts (SPDT), 8 amp, 250 VAC optional user-configurable |
| DISCRETE RELAYS | Form C contacts (SPDT), 10 amp, 250 VAC optional user-configurable |
| SOLID STATE OUTPUTS | 100 mA @ 24 VDC, sinking |
| FLOW SYSTEM | |
| LOOK AHEAD BYPASS CONNECTIONS | 1/8 NPT |
| SAMPLE LINE TUBING | 500 ft. (152 m) max. w/0.250" (6.35 mm) OD, 0.175" (4.4 mm) ID tubing (Longer line lengths possible with custom pumps. Consult factory) |
| SAMPLE LINE FLOW RATE | 0.175" (4.4 mm) ID tubing; 20 SCFH (10 lpm) typical, no-load 10 SCFH (5 lpm) typical, full load. |
| TEMPERATURE | |
| OPERATING | 32°–95° F (0°–35° C) |
| NON-OPERATING | 14°–140° F (-10°–60° C) |
| SAMPLE | 0°–140° F (-17°–60° C) |
| HUMIDITY | 5 to 85% RH non-condensing* |

*Analyzers are not reflected in above specifications

Ordering Information

MultiGard 5000 Gas Sampling System ATO order form is available upon request.



Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products. Specifications subject to change without notice.



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