



# GigaGuard™ GG-GSM-V

## Gas Safety Monitor Controller



SEMI-GAS® supplies SEMI S2 certified, production-ready ultra high purity gas source systems, distribution systems and control technology to leaders in the Semiconductor industry and related high-tech fields. Built to address the most rigorous precision and purity demands of these specialized applications, SEMI-GAS® solutions are globally renowned for their premier levels of safety, quality, and performance.

### DESIGN STANDARDS

- ◆ Conforms to SEMI S2 Standards
- ◆ UL Labeled (Pending)
- ◆ Multi Color LED Indicator Lights
- ◆ Programmable & Configurable I/O

### FEATURES

- ◆ Drop-In, Plug and Play Replacement for Obsolete GSM-5 Gas Safety Monitor
- ◆ Safely Controls Ultra High Purity AT-Plus Series Gas Source Systems
- ◆ Monitors Process Sensors—Analog and Digital
- ◆ Meets SEMI S2, SEMI S8 and Uniform Fire Codes
- ◆ Ergonomic Design
- ◆ Intuitive Color Touchscreen Interface with Step by Step Guides to Minimize Human Error and Reduce Downtime
- ◆ Includes Local and Remote System Shutdown Capabilities
- ◆ Integrated UPS-CAP for Brief Power Interruptions
- ◆ Controls 8 Solenoid Valves, Expandable up to 14
- ◆ Maintains Active Alarm Logs
- ◆ Continuously Monitors System Conditions for Alarms
- ◆ Initiates Auto Shutdown During Abnormal Conditions
- ◆ Multiple Communications Protocols Available
- ◆ Gas and Fire Detection Integration Available
- ◆ Z-Purge Class 1, Div 2 Optional
- ◆ 8 Configurable Form C Relay Outputs
- ◆ Optional Strain Gauge Conditioner for Legacy Cylinder Scale Connectivity

### MATERIALS OF CONSTRUCTION

- ◆ Welded 16 Ga Steel Enclosure
- ◆ SEMI Approved EMO Button
- ◆ 7" Beckoff Color Touchscreen
- ◆ EtherCAT based PLC control system

### ENGINEERING DATA

- ◆ Dimensions: 8" T X 10" W X 12" D
- ◆ Voltage: 90-264 VAC
- ◆ Frequency: 47-63 hz



### ORDERING INFORMATION

Contact your SEMI-GAS® sales rep or visit [www.semi-gas.com](http://www.semi-gas.com)

### BY APPLIED ENERGY SYSTEMS

180 Quaker Lane  
Malvern, PA 19355

Phone: 610.647.8744

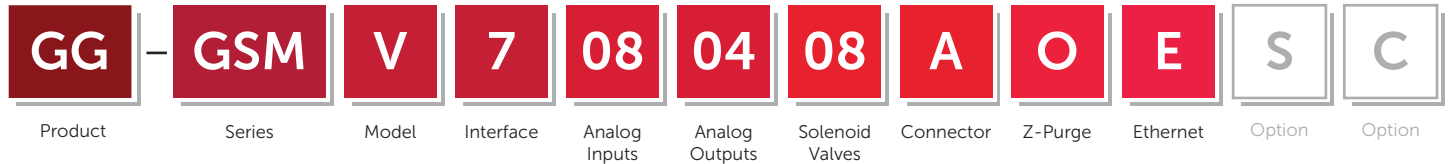
Fax: 610.640.4548

Email: [sales@semi-gas.com](mailto:sales@semi-gas.com)

GIGAGUARD-GSM-V-073117-V1

### ORDERING INFORMATION

Example: Standard GSM-V with 4 Analog Outputs



#### Product

**GG** = GigaGuard™ Controller

#### Series

**GSM** = Gas Safety Monitor

#### Model

**V** = GSM-5 Retrofit Controller

#### Interface

**7** = 7" Color Touchscreen

#### Analog Inputs

**00** = 0 Analog Inputs  
**08** = 8 Analog Inputs

#### Analog Outputs

**00** = 0 Analog Outputs  
**04** = 4 Analog Outputs \* Requires 8 Analog Inputs

#### Solenoid Valves

**08** = 8 Solenoid Valves  
**12** = 12 Solenoid Valves  
**14** = 14 Solenoid Valves

#### Connector

**A** = AMP Connector (24 Pin) & Octoport Pneumatic Connector

#### Z- Purge

**Z** = Z-Purge  
**O** = No Z-Purge

#### Ethernet

**E** = Ethernet Modbus TCP

#### Options

**S** = Strain Gauge Signal Conditioner (for mV/V cylinder scales)  
 \* Requires 8 Analog Inputs  
**C** = SmartConnect RJ12 Cable (for Automatic Changeover Capabilities)

\*All GigaGuard™ Controllers can be customized to meet unique specifications. Contact your SEMI-GAS® sales rep for details.