



# GigaGuard™ GG-GSM

## Gas Safety Monitor



**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
- ◆ Intuitive Operator Control
- ◆ Programmable Inputs

### FEATURES

- ◆ Safely Monitors Ultra High Purity Process Gases
- ◆ For Use with Semi Automatic and Fully Automatic (when auto purging is desired) Nanoturion™ Valve Manifold Boxes and Panels
- ◆ Ensures the Continuous Delivery of Each Process Gas from the Source to Multiple Points-of-Use
- ◆ Monitors Process Sensors, Both Analog and Digital
- ◆ Meets Uniform Fire Code Requirements
- ◆ Includes Local and Remote System Shutdown Capabilities
- ◆ Available in 4, 6, and 8 Stick Models (GSM-VS4 Pictured)
- ◆ Independently Operates Emergency Shutoff (ESO) Valves for Individual Line Shutdown
- ◆ Maintains Active Alarm Logs
- ◆ Displays Delivery Pressures
- ◆ Continuously Monitors System Conditions for Alarms
- ◆ Multiple Communications Protocols Available
- ◆ Gas and Fire Detection Integration Available
- ◆ Z-Purge Class 1, Div 2 Upgrades Available

### MATERIALS OF CONSTRUCTION

- ◆ Welded 16 Ga Steel Enclosure
- ◆ Flip-Down Door
- ◆ SEMI Approved EMO Button
- ◆ Multi-Color LED Panel Status Lights
- ◆ Siemens S7-1200 Series PLC



### 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

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Fax: 610.640.4548

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

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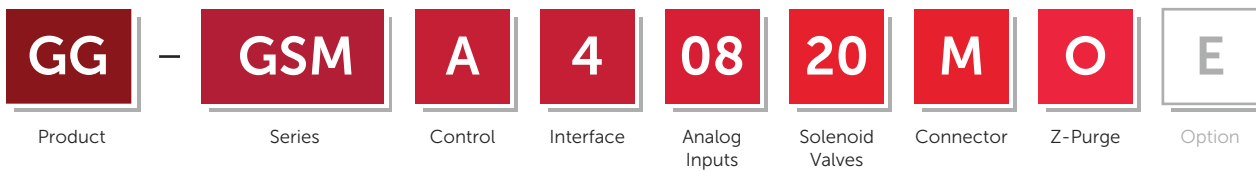
### SAFETY FEATURES

- ◆ **Controller Z-Purge Kit** for systems installed in Class 1 Division 2 hazardous locations, as well as applications for silane and silane mixtures greater than 1.37% (required for silane)
- ◆ **Shutboy Software Upgrade** to accommodate Shutboy valve shutters for automatically closing the gas cylinder valve during emergency situations (optional)



### ORDERING INFORMATION

Example: Gas Safety Monitor with 4.3" Touch Screen



#### Product

**GG** = GigaGuard™ Controller

#### Series

**GSM** = Gas Safety Monitor

#### Control

**S** = Semi Automatic  
**A** = Fully Automatic

#### Interface

**4** = 4.3" Touchscreen

#### Analog Inputs

**00** = 0 Analog Inputs  
**04** = 4 Analog Inputs  
**08** = 8 Analog Inputs  
**12** = 12 Analog Inputs

#### Solenoid Valves

**04** = 4 Solenoid Valves  
**08** = 8 Solenoid Valves  
**12** = 12 Solenoid Valves  
**20** = 20 Solenoid Valves  
**24** = 24 Solenoid Valves  
**36** = 36 Solenoid Valves

#### Connector

**M** = M12 Connector  
**A** = AMP Connector

#### Z-Purge

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

#### Option

**E** = Ethernet

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