SEMIGAS® 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

Example: Standard GSM-V with 4 Analog Outputs

<table>
<thead>
<tr>
<th>GG</th>
<th>GSM</th>
<th>V</th>
<th>08</th>
<th>04</th>
<th>08</th>
<th>A</th>
<th>O</th>
<th>E</th>
<th>S</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product</td>
<td>Series</td>
<td>Model</td>
<td>Interface</td>
<td>Analog Inputs</td>
<td>Analog Outputs</td>
<td>Solenoid Valves</td>
<td>Connector</td>
<td>Z-Purge</td>
<td>Ethernet</td>
<td>Option</td>
</tr>
<tr>
<td>GG = GigaGuard™ Controller</td>
<td>GSM = Gas Safety Monitor</td>
<td>V = GSM-5 Retrofit Controller</td>
<td>7 = 7&quot; Color Touchscreen</td>
<td>00 = 0 Analog Inputs</td>
<td>04 = 4 Analog Outputs</td>
<td>08 = 8 Solenoid Valves</td>
<td>A = AMP Connector (24 Pin) &amp; Octoport Pneumatic Connector</td>
<td>Z = Z-Purge</td>
<td>O = No Z-Purge</td>
<td>E = Ethernet Modbus TCP</td>
</tr>
</tbody>
</table>

### 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.*