GigaGuard™ GG-PLC

Programmable Logic Controller

GigaGuard™
CONTROLLERS

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 Controls Ultra High Purity Process Gases
- ◆ For Use with Fully Automatic Centurion™, Decaturion™, Megaturion™, and Xturion™ Gas Systems
- ◆ Monitors Process Sensors, Both Analog and Digital
- ◆ Meets S8 HMI Requirements
- ◆ Performs Purging Automatically
- ◆ Performs Cylinder Switchover Automatically
- ◆ Includes Ergonomically Positioned Color Touch Screen
- ◆ Maintains Detailed Alarm Logs
- ◆ Continuously Monitors System Conditions for Alarms
- ◆ Multiple Communications Protocols Available
- ◆ Gas and Fire Detection Integration Available
- ◆ Z-Purge Class 1, Div 2 Upgrades Available
- ◆ Hot Swap Modules Available
- ◆ Magnehelic and Exhaust Pressure Monitoring Available

MATERIALS OF CONSTRUCTION

- ◆ Welded 11 Ga Steel Enclosure
- ◆ Flip-Up Door with Air Shocks
- ◆ Magnehelic Gauges with Low Differential Pressure Transducer
- ◆ 8" Siemens TFT Color LCD Touch Screen (Larger 12" Touch Screen Available)
- ◆ Multi-Color Panel Status Lights
- ◆ Retractable Tilt Screen Housing
- ◆ Siemens SIMATIC S7-1500 Series PLC CPU

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)

◆ **Fire Relay Outputs** available to easily integrate the controller with the facility fire detection systems (optional)

◆ **Redundant Power Supply** located in the controller enclosure for a back-up power supply connection in the event the primary power supply fails or loses power (optional)

ORDERING INFORMATION

Example: Programmable Logic Controller with 9" Color Touchscreen

GG	–	PLC	A	09	S	Z	E
Product		Series	Control	Interface	Exhaust	Z-Purge	Option

Product

GG = GigaGuard™ Controller

Series

PLC = Programmable Logic Controller

Control

A = Fully Automatic

Interface

09 = 9" Color Touchscreen
12 = 12" Color Touchscreen

Exhaust

O = No Exhaust
S = Exhaust Monitoring by Pressure Switch
T = Exhaust Monitoring by Pressure Transducer

Z-Purge

Z = Z-Purge
O = No Z-Purge

Option

E = Ethernet
RPS = Redundant Power Supply

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