



Graphite® Strain Gage Input Module, SSR Outputs

Item number: GMSG10S0

The Graphite Strain Gage Input Module is a full featured single loop PID control for your Graphite® products. Accepts low level signals from a variety of bridge-type transducers. With SSR outputs and an analog output, the GMSG module can perform virtually any combination of time-proportioning or linear control.



Reliable, versatile PID control module with strain gage input for Graphite® products

Features and benefits

- ✓ **Dedicated single loop PID control for Graphite® devices**
High-performing PID controller for use with Graphite® HMIs. Offers dedicated single PID loop input.
- ✓ **Strain gage input capability**
Accepts low level signals from a wide variety of bridge-type transducers, such as load cells, pressure transducers, torque transducers, and more.
- ✓ **Multiple control modes and Auto-Tune feature**
Operates in On/Off, P, PI, or PID control mode. Use the on-demand Auto-Tune feature to establish PID settings and tuning constants, or operate in manual mode for direct output control.
- ✓ **Overshoot suppression feature**
Unique feature allows quick response without excessive overshoot.
- ✓ **Simple setup with Crimson® configuration software**
Configure new systems and perform routine re-calibrations with Windows® compatible Crimson® configuration software. The user-friendly graphical interface makes programming quick and easy.
- ✓ **LED status and alarm indicators**
Status LEDs display startup routine, error states, output status and alarms.
- ✓ **Designed for harsh environments**
Durable metal construction. Suitable for hazardous environments with UL Class I, Division 2 listing and CE, ATEX/UKEX and IECEx approved. ABS Type approval for shipboard applications. Operating temperature of -40 °C to 75 °C
- ✓ **Module powered by Graphite® HMI**
Power is supplied by the Graphite® host device. Maximum power: 5.6 W.

Graphite® Strain Gage Input Module, SSR Outputs



General

Net Weight (g)	0.5
Packed Weight (g)	0.5
Relative Humidity	85% max relative humidity, non-condensing
Power Consumption (W)	0
Maximum Installation Altitude (m)	2000
Mounting	Wall mount
Housing Materials	Metal Housing
Packaging Material	Cardboard
Warranty (years)	2

Identification and Status

Product ID	GMSG10S0
Country of Origin	United States of America (the)
HS Code	8537109199
Dual Usage	No

Physical Features

Connectors / Input / Output	Terminal
SD Card Slot	No
Flash Drive	No
Contains Battery	No

Certifications and Standards

RoHS Compliant	Yes
CE	Yes

Graphite® Strain Gage Input Module, SSR Outputs



Certifications and Standards	
FCC	No
UKCA	No
UL	Yes
ATEX	Yes
DNV	No
KC	No
Vibration and Shock	Shock: IEC 68-2-27: Operational 40 g (10 g, modules w/ relays)