



Graphite® Dual Strain Gage Input Module, Relay Outputs

Item number: GMSG11R0

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, plus a second signal input that provides math capabilities between two input channels. With relay 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 variety of bridge-type transducers, such as load cells, pressure and torque transducers, and more. Second strain gage input provides math capabilities between input channels for customized programs.
- ✓ **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. CE approved. ABS Type approval for shipboard applications. Operating temperature of -40 °C to 70 °C
- ✓ **Module powered by Graphite® HMI**
Power is supplied by the Graphite® host device. Maximum power: 5.6 W.

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General

Net Weight (g)	0.01
Packed Width (mm)	149.225
Packed Height (mm)	79.375
Packed Depth (mm)	168.275
Packed Weight (g)	227.01
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	GMSG11R0
Country of Origin	United States of America (the)
HS Code	8537109199
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99

Physical Features

Connectors / Input / Output	Terminal
SD Card Slot	No

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Physical Features

Flash Drive	No
Contains Battery	No

Certifications and Standards

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