



## Graphite® Module, Single PID, SSR Outputs, HCM

Item number: GMP1SM00

The Graphite single PID module provides dedicated single loop PID control for your Graphite® products. Configure and integrate high-density multi-zone systems in minutes with drag-and-drop programming. Stay in control with universal input capability, 3 SSR outputs and a heater current monitor to detect heater-related issues.



*Reliable, versatile PID control module with heater monitoring for Graphite® products*

### Features and benefits

- ✓ **Dedicated single loop PID control for Graphite® devices**  
Fully isolated, high-performing PID controller for use with Graphite® HMIs. This version offers dedicated single PID loop input.
- ✓ **Universal input capability**  
Accepts thermocouple and RTD inputs and 0/4 to 20 mA and 0 to 10 V signals.
- ✓ **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.
- ✓ **Monitor heater current easily and cost-effectively**  
Optional in-built heater current input monitor ensures you detect any heater circuit failure. Lift the burden of temperature control from your PLC without custom PLC development.
- ✓ **LED status and alarm indicators**  
Status LEDs display module condition, output status and alarm conditions. Reconfigurable for alarm requirements, control features and temperature.
- ✓ **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: 3.3 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	GMP1SM00
Country of Origin	United States of America (the)
HS Code	8537109199
Dual Usage	No
Export Control Classification Number (ECCN)	EAR99
Physical Features	
SD Card Slot	No
Flash Drive	No

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## Physical Features

Contains Battery	No
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## Display Features

Analog/Digital	Analog
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## Certifications and Standards

RoHS Compliant	No
CE	No
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)