RedLion®
BY HMS NETWORKS

Graphite® Module, Single PID, Relay Outputs, HCM

Item number: GMP1RM00

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 relay 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.

✓ **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.

✓ **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 module condition, output status and alarm conditions. Reconfigurable for alarm requirements, control features and temperature.

✓ **Module powered by Graphite® HMI**

Power is supplied by the Graphite® host device. Maximum power: 3.3 W.

✓ **Universal input capability**

Accepts thermocouple and RTD inputs and 0/4 to 20 mA and 0 to 10 V signals.

✓ **Overshoot suppression feature**

Unique feature allows quick response without excessive overshoot.

✓ **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.

✓ **Designed for harsh environments**

Durable metal construction. CE approved. ABS Type approval for shipboard applications. Operating temperature of -40 °C to 70 °C

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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	GMP1RM00
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

Display Features

Analog/Digital	Analog

Certifications and Standards

RoHS Compliant	No
CE	No
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)