



Graphite® Thermocouple Analog Input Module

Item number: GMTC8000

The Graphite thermocouple analog input module easily connects any device or sensor to Graphite HMIs and can be used in conjunction with any Graphite modules. This high density temperature input module provides up to eight isolated inputs and accepts a wide range of thermocouple types. Ideal for data acquisition applications.



Monitor and control remote devices easily and intuitively with Graphite® data acquisition modules.

Features and benefits

- ✓ **Temperature input control and monitoring**
Eight single-ended thermocouple analog inputs for T, E, J, K, R, S, B, N, C types. Includes NIST conformity, cold junction effect, A/D conversion errors, temperature coefficient and linearization conformity. Inputs are isolated from each other and the power supply.
- ✓ **Flexible configuration**
Once programmed, the module can operate/control independent of the Graphite device as long as power is applied. Use in conjunction with any Graphite series module.
- ✓ **Easy to connect and remove**
Modules connect and communicate via proprietary USB connection to the various Graphite devices.
- ✓ **LED status and alarm indicators**
Status LED displays the state of the module, including startup routine and error states. Alarm LED indicates the presence of an input fault condition.
- ✓ **Module powered by Graphite® HMI**
Power is supplied by the Graphite® host device. Maximum power: 1.4 W.
- ✓ **High speed and high performing**
Sample time of 50-400 msec depending on enabled inputs. Temperature coefficient of 0.01%/°C. Unused inputs can be disabled to increase overall reading rate.
- ✓ **Non-volatile memory**
Retain all programmable parameters.
- ✓ **Simple setup with Crimson® configuration software**
Configure and perform routine re-calibrations with Windows® compatible Crimson® configuration software. The user-friendly graphical interface makes programming quick and easy.
- ✓ **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



Graphite® Thermocouple Analog Input Module

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	GMTC8000
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	Yes
DNV	No
KC	No