

Graphite® Module: DeviceNet® Protocol



DeviceNet Protocol Communication

The GMDN plug-in module expands the communication capabilities of our Graphite HMI operator interface panels by seamlessly integrating with DeviceNet networks.

The GMDN DeviceNet communication module provides easy Graphite HMI integration with DeviceNet protocol networks, allowing translation to more than 300 machine protocols. Now users can connect to all their existing DeviceNet equipment on the plant floor saving them costly upgrades. Configure the GMDN module using Red Lion's Crimson® software, which makes setup simple via an intuitive graphical user interface with drag-and-drop functionality.



Applications

- Factory automation
- Manufacturing
- Oil & gas

Product Highlights

- Seamless DeviceNet network integration
- Communicates with any DeviceNet master
- Support for over 300 machine protocols
- All-in-one solution

Features & Benefits

- DeviceNet Protocol Conversion
 - Easily integrates Graphite units into DeviceNet protocol networks
 - Communicates with any DeviceNet master
 - Converts between DeviceNet and more than 300 machine protocols
- All-in-One Solution
 - Removes need for external devices and communication gateways
 - Cost-effectively saves space and time
- -40° to 75°C T_{AMB} Operating Temperature
 - Reliably works in harsh environments
- Powered from Graphite Host
 - Simplifies deployment by eliminating external power
- Easily Programmed
 - Seamless configuration using Red Lion's Crimson desktop software

Graphite Module: DeviceNet Protocol Ordering Guide and Specifications

Ordering Guide

Part Number	Description
GMDN0000	Graphite Module, DeviceNet Protocol Interface

Module Specifications

Power

Power will be supplied by the Graphite host device. Some modules, depending on usage may consume high levels of power. This may limit the total number of modules that can be installed on a single Graphite host. Check the Graphite module and Graphite host data sheets for specific usage and power requirements.

GMCC Max Power: 1.2 W

Communications

DeviceNet Port: The DeviceNet port has format and baud rates that are software programmable up to 500K baud and is digitally isolated. This port may be configured for various DeviceNets.

Isolation from GMDN Communication ports to Graphite host device: 1000 VDC for 1 minute.

Environmental Conditions

Operating Temperature Range: -40 to +75 °C T_{AMB} , or lowest range among equipment used in your Graphite system. Consult the user manual or www.redlion.net/OpTemp for further details.

Storage Temperature Range: -40 to +85 °C T_{AMB}

Operating and Storage Humidity: 85% max relative humidity, non-condensing

Altitude: Up to 2000 meters

Certifications and Compliances

CE Approved

EN 61326-1 Immunity to Industrial Locations

IEC/EN 61010-1

RoHS Compliant

ATEX/UKEX Approved

Ⓜ II 3 G Ex nA IIC T4 Gc

DEMKO 14 ATEX 1387X

EN 60079-0, -11, -15, -31

UL23UKEX2879X

IECEX Approved

Ex nA IIC T4 Gc

IECEX UL 15.0035X

IEC 60079-0, -11, -15, -31

India PESO Approved:

A/P/HQ/MH/104/7441 (P549599)

UL Listed: File #E302106

UL Hazardous: File #E317425

ABS Type Approval for Shipboard Applications

Construction

Case body is all metal construction.

Connections

Removable wire clamp screw terminal blocks.

Wire Gage: 28-14 AWG (0.32 mm - 1.63 mm) terminal gage wire.

Torque: 1.95-2.21 inch-lbs (0.22 - 0.25 N-m)

Mounting

Screws to host.

Weight

6.9 oz (196 g)

Warranty

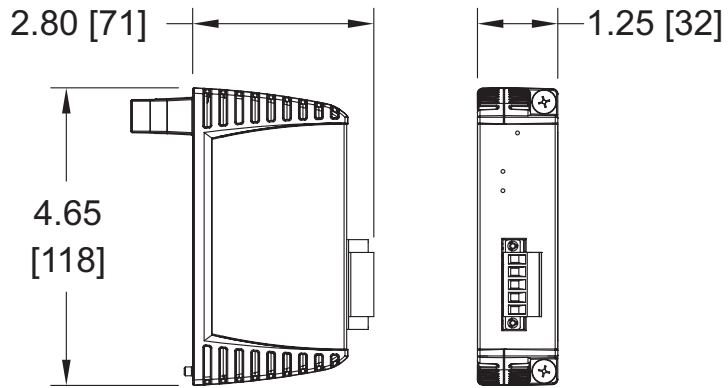
2 years on design and manufacturing defects.

Specifications are subject to change.

Visit www.redlion.net for more information.

Graphite Module: DeviceNet Protocol Dimensions

Dimensions In inches [mm]





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