

## ▶▶▶ PROFIBUS Protocol Communication

The GMPB plug-in module expands the communication capabilities of our Graphite HMI operator interface panels by seamlessly integrating with PROFIBUS DP protocol networks.

Red Lion's GMPB module provides easy integration of Graphite HMIs with PROFIBUS Decentralized Periphery "DP" protocol networks, allowing translation to more than 300 machine protocols. Configure the GMPB 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 PROFIBUS DP Network Integration
- > Automatic Baud Rate Detection
- > Support for Over 300 Machine Protocols
- > All-in-One Solution

### FEATURES & BENEFITS

- > PROFIBUS DP Protocol Conversion
  - Easily integrates Graphite units into PROFIBUS DP protocol networks
  - 9-pin serial connector for easy installation
  - Automatic baud rate detection from 9.6 Kbaud to 12 Mbaud
  - Converts between PROFIBUS 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 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

# ▶▶▶ PROFIBUS Protocol Communication Specifications

## POWER

GMPB Max Power: 2.6 W (supplied by Graphite host device)

## COMMUNICATION PROPERTIES

PROFIBUS Protocol Port: PROFIBUS DP per EN 50 170

Baud Rates: 9.6 KBaud to 12 MBaud - auto detection

Station Address: programmable range from 1 to 125

Isolation from Graphite Host 500 Vrms VDC for 1 minute

Output Power: +5 VDC @ 90 mA max. on the D-Sub

connector pins 5 (GND) and 6 (+5 V)

## CERTIFICATIONS AND COMPLIANCES

Product Safety:

UL Safety - Class I, Division 2, Groups A, B, C, D, Class II,  
Division 2, Groups F and G, Class III Hazardous Locations

CE Approved:

EN 61326-1 to Industrial Locations

IEC/EN 61010-1

RoHS Compliant

## ENVIRONMENTAL

Operating Temperature Range: -40° to +75°C

Storage Temperature Range: -40° to +85°C

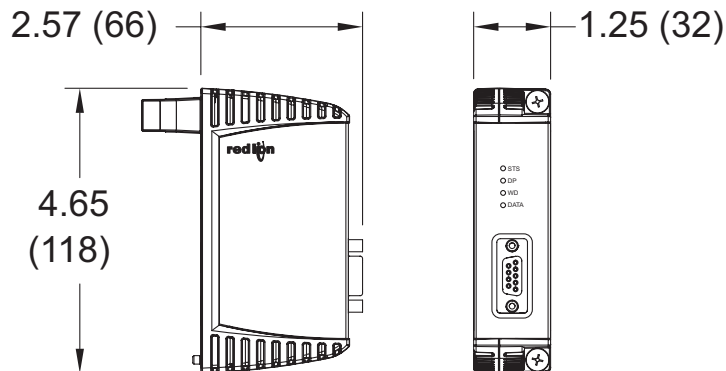
Operating and Storage Humidity: 85% max relative humidity,  
non-condensing, from 0° to +50°C

Altitude: Up to 2000 meters

## ORDERING GUIDE

| PART NUMBER | DESCRIPTION                                  |
|-------------|----------------------------------------------|
| GMPBDP00    | Graphite Module, PROFIBUS Protocol Interface |

## DIMENSIONS *In inches (mm)*



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