

▶▶▶ PROFIBUS Protocol Communication

The CMPB plug-in module expands the communication capabilities of our CR3000 HMI operator interface panels by seamlessly integrating with PROFIBUS DP protocol networks.

Red Lion's CMPB module provides easy integration of CR3000 HMIs with PROFIBUS Decentralized Periphery "DP" protocol networks, allowing translation to more than 300 machine protocols. Configure the CMPB module using Red Lion's Crimson® software, which makes setup simple via an intuitive graphical user interface with drag-and-drop functionality.



APPLICATIONS

- > Automotive
- > Food & Beverage
- > Factory Automation
- > OEM Machine Builders
- > Water/Wastewater

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 CR3000 HMI 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
- > -10 to 50 °C operating temperature
 - Reliably works in harsh environments
- > Powered from CR3000 host
 - Simplifies deployment by eliminating external power
- > Easily Programmed
 - Seamless configuration using Red Lion's Crimson desktop software

▶▶▶ PROFIBUS Protocol Communication Specifications

POWER

CMPB Max Power: 2.6 W (supplied by CR3000 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 CR3000 HMI 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: -10 to 50 °C

Storage Temperature Range: -40 to 85 °C

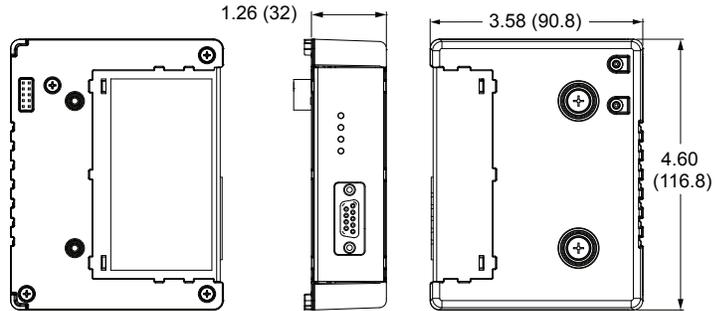
Operating and Storage Humidity: 85 % max relative humidity,
non-condensing, from 0 to 50 °C

Altitude: Up to 2000 meters

ORDERING GUIDE

PART NUMBER	DESCRIPTION
CRM000CMPBDP0000	CR3000 Module, PROFIBUS Protocol Interface

DIMENSIONS *In inches (mm)*



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As the global experts in communication, monitoring and control for industrial automation and networking, Red Lion has been delivering innovative solutions for over forty years. Our automation, Ethernet and cellular M2M technology enables companies worldwide to gain real-time data visibility that drives productivity. Product brands include Red Lion, N-Tron and Sixnet. With headquarters in York, Pennsylvania, the company has offices across the Americas, Asia-Pacific and Europe. Red Lion is part of Spectris plc, the productivity-enhancing instrumentation and controls company. For more information, please visit www.redlion.net.

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