



## MLC 9000+™

**Maximum Productivity and Versatility for Control without Compromise!**

### PROFIBUS Bus Communication Module

#### DESCRIPTION

The PROFIBUS Bus Communication Module (BCM) is part of the MLC 9000+ DIN rail mount PID control system. The BCM handles communication between up to 8 single or multi loop controller modules and the PROFIBUS network. Systems larger than 32 loops can be built using multiple BCMs, within the limitations of your PROFIBUS system.



#### APPLICATIONS:

Ideal for multi-zone temperature or process control applications (speed, flow, pressure, etc). Takes the place of either a PLC and multiple discrete controllers or combination PLC/HMI. For users seeking an integrated PROFIBUS protocol.

#### INDUSTRIES

Packaging, plastics, converting, semi-conductor, food processing, heat treat and environmental test chambers to name a few.

#### FEATURE/BENEFITS

- PROFIBUS DP Port
- Auto Detects Data Rate
- DIN Rail Mounting
- Software Configuration
- Configurable Data Assemblies

**PARTLOW™ brand**

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## PROFIBUS Bus Communication Module

### SPECIFICATIONS\*

#### STANDARD FEATURES

**Protocol:** PROFIBUS DP (Slave Device)  
 Supports up to 8 LCM modules per BCM (for max of 32 loops); Larger systems require multiple BCM's (dependent on bus module(s) type ordered)  
 Equipped with PROFIBUS Port and Partlow Configuration Port  
**Construction/Enclosure:** Compact, modular, behind the panel (BTP), DIN rail design; NEW ABS black bus module with dedicated configuration port

#### OPERATING CHARACTERISTICS (APPLIES TO BOTH BCM/LCM)

**Operating Temp:** 32° to 131°F (0° to 55°C)  
**Storage Temp:** -4° to 176°F (-20° to 80°C)  
**Humidity:** 30% to 90% non-condensing R.H.

#### ELECTRICAL

**Power Consumption:** 30W Max  
**Power Connector:** 2-way; 5.08mm (0.2"); Combicon type  
**Line Voltage:** 18-30VDC (including ripple)

#### COMMUNICATIONS INTERFACES

**PROFIBUS PORT**  
**Protocol:** PROFIBUS DP (Slave Device)  
**Port:** Connects to a PROFIBUS system  
**Function:** Connection of the MLC 9000+ system to a PROFIBUS Master Device  
**Data Rate:** Auto detected from 9.6kbps, 19.2kbps, 45.4kbps, 93.75kbps, 187.5kbps, 500kbps, 1.5Mbps, 3Mbps, 6Mbps and 12Mbps.  
**Profibus Address:** 0 – 126 (Default = 126). Configured using the MLC9000+ Configurator software, via the configuration port  
**I/O Size:** Dependant on Data Assembly Configuration. Maximum 256 (total) bytes of input/output data limited by PROFIBUS  
**Messaging Supported:** Cyclic and Acyclic messages  
**Diagnostics:** Two Color LED, indicating On/Off-line, Self Test, Bus Fault and Communication Status  
**GSD/GSE File:** The GSD/GSE file is defined by the MLC 9000+ configuration software  
**Connector:** 9-way D-Type  
**CONFIGURATION PORT**  
**Protocol:** Partlow PC Configuration protocol only  
**Function:** Communicates with Partlow MLC 9000+ Configuration Software allowing the user to fully customize the communication interface to the MLC 9000+ system. The user drags and drops the required parameters into the data assemblies which creates an EDS file for use with your PROFIBUS master device.  
**Diagnostics:** Three color LED, indicating Power Fail, Bus Alarm & Communications Status  
**Connector:** 6-way; RJ11 Type

#### RATINGS/AGENCY APPROVALS

**Safety:** EN61010 and UL/ULc 3121-1  
**EMC:** Certified EN61326-1: 1997  
**Other:** ISO 9002 Registered; PROFIBUS approval pending.

#### PROTECTION

IEC IP20; Designed for installation in an enclosure which is sealed against dust and moisture.

#### PHYSICAL DIMENSIONS

**Width:** 1.18" (30mm); Up to 8.11" (206mm) for 8 module system up to 32 loops  
**Depth:** 4.72" (120mm)  
**Height:** 3.94" (100mm)  
**Weight:** 7.4 oz (0.21kg)  
**Mounting:** directly fitted onto 35mm Top-Hat DIN rail mounting (EN55022, DIN 46277-3)

#### WARRANTY

3 Years

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### ORDERING INFORMATION

MLC 9002-BM240-PB      BCM with PROFIBUS & Configuration Port

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