← MODBUS/RTU Port

PARTLOW™ brand

Data Sheet

Controllers

MODBUS/RTU Bus Communication Module

MLC 9000+™

Maximum Productivity and Versatility for Control without Compromise!

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 MODBUS/RTU protocol.

INDUSTRIES

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

FEATURE/BENEFITS

- MODBUS/RTU Port
- Configurable Data Rate
- DIN Rail Mounting
- Software Configuration
- Configurationable Assemblies

DESCRIPTION

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

MODBUS

CE

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SPECIFICATIONS*

STANDARD FEATURES

Protocol: MODBUS/RTU (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 MODBUS/RTU Port and Partlow Configuration Port

Construction/Enclosure: Compact, modular, behind the panel (BTP), DIN rail design; NEW ABS black bus module with dedicated Partlow configuration port

OPERATING CHARACTERISTICS (APPLIES TO BOTH BCM/LCM)

Operating Temp: 32º to 131ºF (0º to 55ºC)

Storage Temp: -4º to 176ºF (-20º to 80ºC)

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

MODBUS/TCP PORT

Protocol: MODBUS/RTU (Slave Device)

Port: Connects to a MODBUS/RTU system

Function: Connection of the MLC 9000+ system to a MODBUS/RTU Master Device

Configuration: Data Rate auto detected by BCM from 2.4kbps, 4.8kbps, 9.6kbps and 19.2kbps

Address 0 – 257 (Default = 96). Configured using the MLC9000+ Configurator software, via the configuration port

Messaging Supported: Function codes 01, 02, 03, 04, 05, 06, 08, 0Fh, 10h and 17h

Connector: 3-way 5.08mm combicon type

Diagnostics: Two Color LED, indicating On/Off-line, Self Test, Bus Fault and Communication Status

CONFIGURATION PORT

Protocol: Partlow PC Configuration protocol only

Function: Using the MLC 9000+ configuration software the user can define the data assemblies for communication via MODBUS RTU. This allows 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 allowing the MODBUS master to gather a several parameters in a single message

Diagnostics: Three color LED, indicating Power Fail, Bus Alarm & Communications Status

Connector: 6-way; RJ11 Type

RATINGS/AGENCY APPROVALS

Safety: EN61010 and UL/UIc 3121-1

EMC: Certified EN61326-1: 1997

Other: ISO 9002 Registered; MODBUS Organization 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

ORDERING INFORMATION

MLC 9002-BM220-MB	BCM with MODBUS RTU & Configuration Port

* Specifications subject to change without notice in accordance with our DBS policy of continuous improvement . All product and brand names are trademarks of their respective companies.

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