

West MLC 9000 Bus Communications Module



The West RS232 and RS485 Bus Communications Modules, are part of the MLC 9000 DIN-rail mounting bus compatible PID control system. The BCM handles communication between PLC's, HMI's, SCADA systems and PC's for up to 8 Loop Control Modules. Larger systems can be built up using multiple BCM's, up to a total of 224 loops.

- Hot Swap of PID Loops
- Single loop integrity
- Modbus RS485 comms



- Heat/Cool operation
- 10 samples/second
- Software Configurable



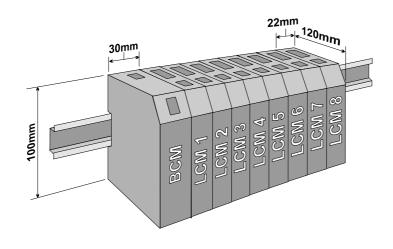
This is a local port for connection to an RS232 port on a PC (for use with the West Loop RS 232 Port Supervisor or the West MLC 9000 Configurator software) or to a West Loopview HMI. **Modbus Port** This is an optional RS485 port for connection to a MODBUS master device. Data rate, address and format are configurable via the RS232 port using the MLC 9000 Configurator software from a PC. The MODBUS port can fulfil a variety of roles. Multi-drop configuration Configuration and monitoring of the system may be performed with a local RS485 MODBUS network. Field bus When a plant uses MODBUS as its field bus choice, this permits the system to be integrated into a field bus network. Multi-drop Operator A third party operator interface may be connected, which can read and change parameters Interface over this port. Is supported using an RS485 physical layer. Each MLC 9000 system consists of a Bus MODBUS RTU Protocol Communications Module (BCM) plus up to eight Loop Controller Modules (LCM) - a total of nine addresses. Up to 28 systems with 8 LCM's (total 224 loops) can be connected via RS485. MODBUS Base address 1-247 (default = 96) 4800, 9600 or 19200 (default = 9600) Data Rate Parity None, even or odd (default = None) **Physical** Dimensions Height:100mm Width: 30mm Depth: 120mm Directly mounted on DIN-rail Mounting Weight 0.21kg **Environmental Specifications** Ambient operating temperature 0°C to 55°C (32°F to 131°F) -20°C to 80°C (-4°F to 176°F) Storage temperature 30% to 90% non-condensing (operation and storage) Relative Humidity Supply Voltage 18 to 30Vdc (inc ripple) 25W Max EMC: Certified to EN61326-1:1997 Safety: Complies with EN61010 and UL 3121-1 Approvals Connector Types Power Input: 2-way 5.08mm Combicon type. RS232 port: 6-way RJ11Type. MODBUS port (MLC 9000-B220 only): 2-way 5.08mm Combicon type



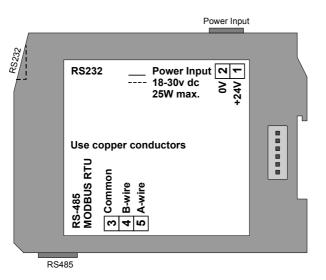
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Required Space for System Modules



Electrical Connections for BCM (RS485 on MLC9000-B220 only)



Order Codes

MLC 9000-B210	BCM: 24vdc powered with RS232 Port
MLC 9000-B220	BCM: 24vdc powered with RS232 Port and MODBUS RS485 Port

In accordance with our policy of continuous improvement, we reserve the right to change specifications from those shown in this document.

MLC 9000 RS232 & RS485 BCM Specs - 08/03

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