MB-GATEWAY Modbus TCP/IP to RTU Gateway

MB-GATEWAY

AutomationDirect's MB-GATEWAY is a single port Modbus Gateway module that converts Modbus TCP to Modbus RTU. It supports up to 12 simultaneous Modbus TCP Client (master) Ethernet connections, and up to 128 RTU Server (slaves) serial connections. MB-GATEWAY requires 10VDC to 36VDC from an external power supply. Each module has one RJ45 10/100 Mbps Ethernet port and one RS-422/485 2 or 4-wire serial port. It supports NetEdit* or Web Browser based configuration tools.

Key features

- Automatic read function
- RJ45 10/100 Mbps Ethernet port
- RS-422/485 2 or 4 wire serial port
- Supports NetEdit* and Web browser configuration tools
- Auto detects Ethernet cable types (MDI/MDX)
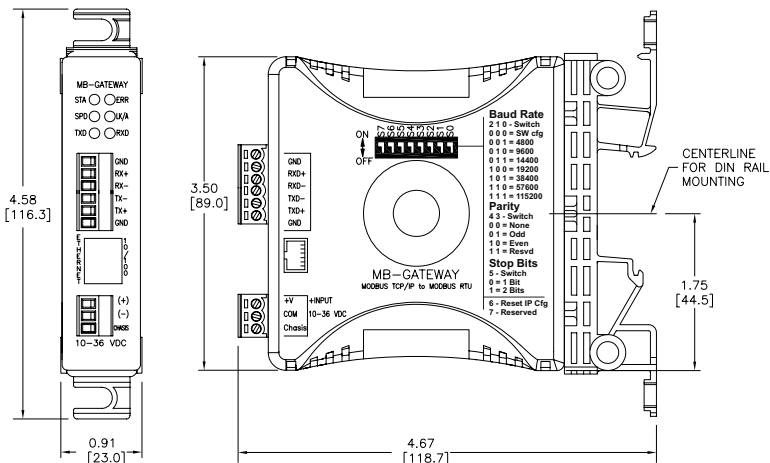- 35 mm DIN rail mount

NetEdit version 3.8 or later is required to support MB-GATEWAY.

Specifications		
Ethernet Interface	Port	RJ-45
	Speed	10/100 Mbps
	Protection	Built-in 1.5 KV magnetic isolation
	Protocol Supported	Modbus TCP/IP Server (Slave)
	Clients (Masters) Supported	12 simultaneous Modbus TCP connections
	Cable Type	Auto detects Ethernet cable types (MDI/MDX)
Serial Interface	Port	6-position terminal strip (Phoenix #1863194) provided
	Supported Signal Lines	RS-422 (5-wire) Signals: TX+, TX-, RX-, RX+, GND RS-485 (3-wire) Signals: Data+, Data -, GND
	Supported Baud Rates	300*, 600*, 1200*, 4800, 9600, 14.4k, 19.2k, 38.4k, 57.6k, 115.2k *Cannot be set with DIP switches. Must be set via Web browser configuration.*
	Parity	Odd, Even, None
	Data Bits	8
	Stop Bits	1, 2
	Protocol Supported	Modbus RTU Client (Master)
	Servers (Slaves) Supported	128
	Termination	Permanently installed 120Ω resistor between Data+ and Data -

Specifications	
Power Consumption	2W Use Class 2 power supply Use conductors rated 60/75°C 3-position terminal strip (Phoenix #1863165) provided
Wire Range	16–28AWG Solid or Stranded Conductor (1.5 mm²)
Wire Strip Length	0.24–0.27 in (6–7 mm)
Screw Torque	1.7 lb-in (0.2 N·m)
Operating Temperature Range	0 to 60°C (32 to 140°F)
Storage Temperature Range	-20 to 70°C (-4 to 158°F)
Humidity	5 to 95% RH (non-condensing)
Environmental Air	For use in Pollution Degree 2 Environment
Vibration	MIL STD 810C 514.2
Shock	MIL STD 810C 516.2
Weight	0.2 lbs (0.09 kg)
Agency Approval	UL (file #E185989), CE

Dimensions

Inches [mm]

Part Number	Description	Price
MB-GW-CON	MB-Gateway-Connector Kit 1ea: Phoenix 3 pin power connector AND 1 ea: Phoenix 6 pin serial connector	

See our website: for complete engineering drawings.