PYTHIA TECHNOLOGIES

SERIAL-TO-ETHERNET GATEWAYS · MS0-MBT AND MS0-MBT3

Put serial Modbus devices on the network.

The MS0-MBT and MS0-MBT3 move Modbus from a serial wire onto Ethernet. Nothing is translated: equipment on RS-485 or RS-232 becomes reachable as Modbus/TCP from anywhere on the network.





2 models
DIN-rail RS-485, or panel mount with RS-232 and RS-485

3
simultaneous Modbus/TCP clients

460,800
baud maximum (MS0-MBT); non-standard rates supported

12–36 VDC
power input; −40 to 85 °C

HOW IT CONNECTS



No translation
Modbus stays Modbus. Simpler and less expensive than a converter.

3 TCP clients
Up to three systems can poll at the same time.

Browser setup
Configured from a web browser, with DHCP or a static IP.

Industrial range
−40 to 85 °C, with LEDs for power, LAN and serial traffic.

Meters · Controllers · RS-485 and RS-232 equipment · BMS and SCADA

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TWO MODELS

The same job, two form factors.

If two systems already speak Modbus but on different wires, you need a bridge, not a converter. A bridge is simpler and less expensive.



MS0-MBT

Compact DIN-rail gateway for RS-485 only. Screw terminals, 600 to 460800 baud, up to 3 simultaneous Modbus/TCP clients.

Best for RS-485 devices, tight panels and volume rollouts.



MS0-MBT3

Panel-mount gateway with an RS-232 DB9 and an RS-485 terminal on the same unit. 600 to 230400 baud, up to 3 simultaneous Modbus/TCP clients.

Best for DB9 devices and unusual baud rates.

WHERE IT'S USED

RS-485

Tight panels and rollouts

Put RS-485 Modbus meters and controllers on the network with the compact DIN-rail MS0-MBT.

RS-232

DB9 equipment on Ethernet

Bring RS-232 Modbus devices onto the network with the MS0-MBT3, including non-standard baud rates.

SHARED ACCESS

One device, several systems

Up to three systems, such as a BMS and the Pythia DM, can poll the same serial device at the same time.

SPECIFICATIONS

MS0-MBT	
Serial	RS-485, 3-wire (+, −, ground) screw terminals; 600–460800 baud
Network	10/100 Ethernet, RJ45, 2 kV isolation; DHCP or static IP
Clients	Up to 3 simultaneous Modbus/TCP clients
Power	12–36 VDC
Mounting	DIN-rail
BOTH MODELS	
Function	Modbus RTU to Modbus/TCP bridge; nothing is translated
Setup	Web browser

MS0-MBT3	
Serial	RS-232 male DB9, plus RS-485 3-wire screw terminals
Baud rates	600–230400, non-standard rates supported
Network	10/100 Ethernet, RJ45, 2 kV isolation; DHCP or static IP
Clients	Up to 3 simultaneous Modbus/TCP clients
Power	12–36 VDC
Mounting	Panel mount
ENVIRONMENT	
Range	−40 to 85 °C; 5–95% RH
Supplies	Optional 120 VAC to 24 VDC DIN-rail supply

On the MS0-MBT3, the RS-232 and RS-485 ports each need their own TCP port number. Specifications are subject to change.

Modbus to BACnet
MS0-MB: Modbus RTU and TCP to BACnet/IP, for the BMS.

Modbus to SNMP
MS0-MS: Modbus RTU and TCP to SNMP, for IT monitoring.

BACnet to SNMP
MS0-BS: BACnet/IP and MS/TP to SNMP, for the NOC.

Put your serial Modbus devices on the network.

Contact us for pricing or to talk through your application.

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