PYTHIA TECHNOLOGIES

PROTOCOL GATEWAY · MS0-MS

Bring Modbus equipment into your SNMP monitoring.

The MS0-MS converts Modbus RTU and Modbus TCP to SNMP. Generators, UPS systems and CRAC units become SNMP objects that SolarWinds or another network management system can poll, with traps for alarms.



RTU + TCP
Modbus over a hardened RS-485 port or over Ethernet

v2c + v3
SNMP, including SNMPv3 authentication and privacy

Traps
sent to your NMS on the conditions you set

–40 to 85 °C
industrial DIN-rail gateway, 10–30 VDC or 24 VAC

HOW IT CONNECTS



RTU and TCP
Modbus over RS-485 or Ethernet, from generators, UPS systems and CRAC units.

SNMP for IT
The NMS polls the gateway like any other network device.

Browser setup
Secure web interface, DHCP or static IP. Nothing to install.

Traps for alarms
Alarms reach the NMS without waiting for the next poll.

WHAT IT DOES

Facility equipment, in the tools IT already watches.

The MS0-MS polls your Modbus equipment and serves each value as an SNMP object. Your NMS polls the gateway like any other network device, and traps tell it when something changes.

Modbus RTU and TCP
A hardened RS-485 port with screw terminals at 1200 to 115200 baud, plus Modbus TCP over Ethernet.

SNMP for the NMS
Points appear as SNMP objects that SolarWinds or another SNMP platform can poll.

Traps for alarms
Trap destinations and triggers are set in the gateway, so alarms reach the NMS right away.

SNMPv2c and SNMPv3
Community access, or SNMPv3 users with authentication and privacy.

Browser setup
Configured from a secure web interface, with DHCP or a static IP address.

Industrial build
DIN-rail housing rated −40 to 85 °C, with LEDs for power, LAN and serial traffic.

WHERE IT'S USED

GENERATORS

Generator status in the NMS
Put generator controller status and alarms in SolarWinds or another SNMP tool.

UPS SYSTEMS

UPS next to the servers
See UPS conditions alongside the servers and switches they protect.

CRAC UNITS

Cooling in the NOC
Bring CRAC unit status and alarms to the NOC without adding a building automation system.

SPECIFICATIONS

PROTOCOLS	
Equipment	Modbus RTU (RS-485) and Modbus TCP
Network	SNMPv2c and SNMPv3
Alarms	SNMP traps to the destinations you set

CONNECTIONS	
Serial	Hardened RS-485, 3-wire (+, −, ground); 1200–115200 baud; parity none, even or odd
Network	10/100 Ethernet, RJ45; DHCP or static IP
Setup	Secure web interface; no software to install

POWER AND ENVIRONMENT	
Power	10–30 VDC or 24 VAC
Supplies	Optional DIN-rail supplies: 120 VAC to 24 VDC, and 24 VAC
Environment	−40 to 85 °C
Humidity	5–90% RH, non-condensing
Size	100 × 70 × 60 mm (H × W × D); DIN-rail

INDICATORS	
LEDs	Power, LAN, and serial transmit and receive

Specifications are subject to change.

Need BACnet instead?
MS0-BS: BACnet/IP and MS/TP to SNMP, for building automation data.

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

Serial to Ethernet
MS0-MBT: Modbus RTU to Modbus TCP, no translation needed.

Bring your Modbus equipment into SNMP monitoring.

Contact us for pricing or to talk through your application.

Pythia Technologies Inc.
740.363.2272
sales@pythiatech.com
pythiatech.com/gateways/ms0-ms

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