PortBloque E

Modbus Ethernet Firewall

PortBloque™ ("port block") E protects serial Modbus devices from Internet threats.

Hides the Modbus network from intruders
Stealth mode is the intrusion prevention feature that strengthens port security. Any Internet probe, scan, intrusion, or hostile attack is completely ignored, as if the packet were lost in space.

Blocks unauthorized Internet access
All TCP/IP traffic is restricted by default and only expected traffic is allowed (per origin, destination, protocol, and port).

Inspects Modbus query contents
Deep packet inspection (DPI) filters queries. Modbus function codes, registers, and values that you have not explicitly permitted are blocked. And the safeguard time is a feature that serves to block a query that is repeated too often, which can help prevent safety violations.

Creates real-time logs
Internet and system activity can be sent to a syslog server for analysis at a later time. Key metrics are reported on the dashboard.

Converts Ethernet-to-serial
The internal protocol converter enables Modbus RTU/ASCII slaves to be Modbus TCP/IP connected. Supports RS-232, RS-422 and RS-485 interfaces.
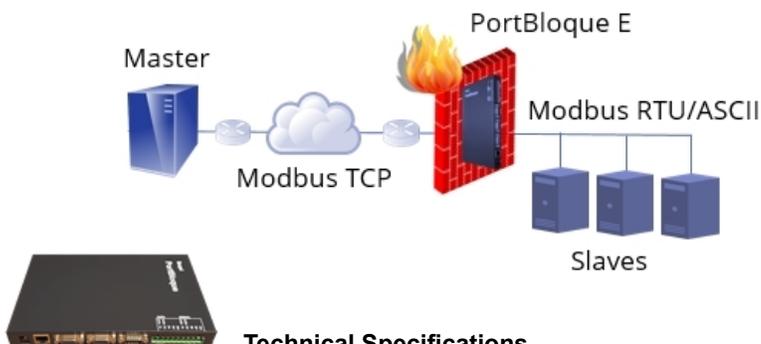
Sets up in minutes
The simple, intuitive web interface lets you create Ethernet rules and Modbus rules quickly.

Provides secure web interface
The web interface is login-secured and firewall-protected so only computers that you specify are permitted access.

Filters anything and everything
Ethernet rules are used to close attack vectors in the control system space while Modbus rules protect slaves by blocking commands that could lead to harmful consequences. Creating rules is easy! With a few clicks and fill-ins, you can define Modbus function codes (including custom codes), registers, values, and safeguard time (the amount of time to wait before a Modbus command can be repeated).

Technical Specifications

Firewall Rules	Modbus deep packet inspection (DPI): - Device IDs: single or group; including broadcast ID - Function codes: 1-8, 11,12, 15-17, 20-24, 43; and four user-defined codes - Registers - Values Bidirectional filtering Safeguard time between repeated commands Access control list Stealth mode (hides Modbus ports) Source IP Protocol: TCP, UDP Port: standard, user-defined
Ethernet-to-Serial Conversion	Ethernet - Modbus TCP/UDP - Modbus RTU over TCP/UDP - Modbus ASCII over TCP/UDP Serial - Modbus RTU/ASCII
Interfaces	RS-485 2-wire, RS-422 4-wire, RS-232 (software selectable) Slave: 10-pin terminal block Slave:DB9 male Management DB9 female (RS-232) Host/Web: RJ45 Ethernet (10/100BaseT)
Serial Signals	RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD RS-485 2-wire: Data+, Data- RS-422 4-wire: Tx+, Tx-, Rx+, Rx-
Serial Topologies	Multi-drop (up to 31 slaves) Point-to-point
Data Rate	300 to 115.2K bps (async)
Web Management	Login-secure levels: Superuser, User Dashboard firewall metrics
Logging	Traffic and system (Syslog)
LED Indicators	Power, Link, Secure
Power	External 3.3VDC power adapter
Physical	Enclosure: 18 gauge steel Weight: 2 lbs Size: 1 x 8 x 5 inches (2.54 x 20.32 x 12.7 cm)
Operating Environment	-40° C to 85° C (-40° F to 185° F)
Warranty	2 Years

Sequi

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