

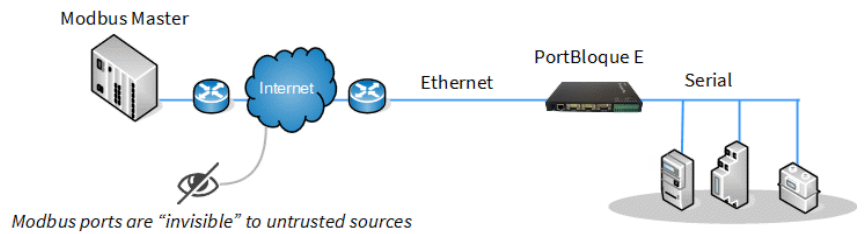
# PortBloque E

Modbus Ethernet Firewall



## Protects Modbus Systems from Internet Threats

PortBloque™ ("port block") E is a Modbus Ethernet firewall to protect serial control devices from unwanted Internet traffic. It performs deep packet inspection (DPI) on Modbus traffic to ensure that systems receive only the commands required for normal operations and not accidental or unauthorized commands that could lead to harmful consequences.



- **Two Firewalls in One**

PortBloque E is really two firewalls in one. It performs standard firewall functions plus advanced Modbus filtering. System and traffic activity can be sent to a syslog server for later analysis.

- **Evades Port Scanning**

Stealth mode makes Modbus ports invisible from sniffing. Any probing is completely ignored, as if the packet were lost in space.

- **Converts Ethernet to Serial**

The purpose-built firewall positions at the entry point to serial devices and supports an RS-232, RS-422, or RS-485 connection. It automatically converts Modbus TCP/IP to Modbus RTU/ASCII. No need to change the Modbus network or applications.

- **Filters Anything and Everything**

Modbus filtering is easy! Simply enter the Modbus device IDs you want to make available. Then select the types of Modbus function codes you want those devices to receive, including user-defined codes. By defining register and range values, you can prevent the control device from being put into an undesired or unstable mode. You can also control the amount of time to wait before a command can be repeated.

## Technical Specifications

Firewall Rules	Modbus deep packet inspection (DPI): <ul style="list-style-type: none"> <li>- Device IDs: single or group; including broadcast ID</li> <li>- Function codes: 1-8, 11,12, 15-17, 20-24, 43; four user-defined codes</li> <li>- Registers</li> <li>- Values</li> </ul> Safeguard time between repeated commands Access control list Stealth mode (makes Modbus ports invisible) Source IP Protocol: TCP, UDP Port: standard, user-defined
Ethernet-to-Serial Conversion	Ethernet <ul style="list-style-type: none"> <li>- Modbus TCP/UDP</li> <li>- Modbus RTU over TCP/UDP</li> <li>- Modbus ASCII over TCP/UDP</li> </ul> Serial <ul style="list-style-type: none"> <li>- Modbus RTU/ASCII</li> </ul>
Interfaces	RS-485 2-wire, RS-422 4-wire, RS-232 (software selectable) Slave: 10-pin terminal block Slave: DB9 male Mgmt DB9 female (RS-232) Host: 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 Interface	Login-secure levels: Superuser, User Dashboard for at-a-glance firewall statistics
Logging	Traffic accounting and system log (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

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