

PortBloque S

Serial Firewall with DPI on Modbus RTU/ASCII

PortBloque S is a specialized firewall that protects Modbus devices from serial attacks. It provides Modbus RTU/ASCII deep packet inspection (DPI), blocking everything that's harmful or unwanted. The simple web interface makes setup easy. Operators can control Modbus traffic by slave IDs and function codes, and block a command that repeats too soon, e.g., to prevent a servo attack (rpm). Additionally, operators can define a permissible range of slave registers and values to prevent malicious memory access.



- DPI on Modbus RTU/ASCII
- Highly customizable
- 1 DB9 serial master (RS-232/422/485)
- 1 DB9 serial slave (RS-232/422/485)
- 1 RJ-45 Ethernet
- Small size approx: 4 x 3 x 1 in

Technical Specifications

Firewall	Deep packet inspection on Modbus RTU/ASCII: <ul style="list-style-type: none"> - Device IDs: single or group; including broadcast ID - Function codes: 1-8, 11, 12, 15-17, 20-24, 43 user-defined codes (4 total) - Registers - Values Safeguard time between repeated commands
Serial Protocols	Modbus RTU Modbus ASCII
Interfaces	Master: DB9 female (RS-232/422/485 software selectable) Slave: DB9 male (RS-232/422/485 software selectable) Ethernet: RJ45 (10/100BaseT)
Serial Signals	RS-232: TxD, RxD, RTS, CTS 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 115.2 Kbps (async)
Web	Login-protected: superuser and user levels Dashboard firewall metrics
Logging	Traffic and system (Syslog)
LED Indicators	Power, Link, Secure
Power	External 5VDC (2A) power supply
Physical	Enclosure: 18 gauge steel Weight: 1 lb Size: 4.17 x 3.12 x 1.1 inches (10.59 x 7.92 x 2.79 cm)
Operating Temperature	-40 to 75°C (-40 to 167°F)
Warranty	2 Years

Serial Modbus Security

- ▶ Blocks function codes, registers, and values that you have not permitted to specific slave devices.
- ▶ Supports 16-bit, 32-bit unsigned/signed and 32-bit floating point values. Simple entry.
- ▶ Blocks a command that repeats too soon, e.g., to prevent a servo attack (rpm).

