



Barix IO 12

FUNCTIONALITY

The Barix IO12 is a universal, DIN Rail mountable industrial I/O extension which connects to a host via Modbus/RTU. The inputs/outputs are controlled and read using Modbus/RTU commands via the serial interface. Special power savings features keep the active power of the device low even if all relays are activated.

APPLICATIONS

- Voice Evacuation Systems, 12 in, 12 out

FEATURES

- RS-485 Serial Port (1)
- Supply Voltage (9-30V)
- Current sourcing Outputs (12)
- Optoisolated Inputs (12)

Designed in Switzerland and installed in thousands of locations internationally, the Barix control products have proven themselves as a very reliable, versatile product solving interfacing, data collection and control problems effectively, world wide.

Software Barix IO 12

- 12 solid state sourcing outputs (up to 1.5 A @ 6 to 30 VDC)
- 12 ESD protected inputs (opto isolated in groups of 4, 10 to 30 VDC)
- RS-485 (2-wire) serial interface, Modbus/RTU protocol
- Two extension connectors for easy daisy chaining of power supply, additional I/O units (IO12), relay units (R6) etc.

TECHNICAL SPECIFICATIONS

Outputs

- 12 solid state current sourcing (thermal and over current protected, max 1.5 A each, max 6 A in total, connector for external power supply, 30 VDC max).

Inputs

- 12 opto isolated inputs (5 to 30 VDC), registered (30 msec filter) and counted (<100 pulses/sec),
- ESD protected in groups of 4 with separate
- power terminals (10 to 30 VDC, polarity protected)



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TECHNICAL SPECIFICATIONS

Serial Interface

- RS-485 (2-wire), 9'600/19'200 Baud , 8 bit, Even/No
- parity, software configurable, Modbus/RTU protocol

Connectors

- Separate detachable screw terminal blocks for
- wires AWG 28 – AWG 16 / 0.08 – 1.3 mm²
- 2 extension connectors (3"/75 mm cable included)

Misc

- 2 LED's for power and RS-485 send indication
- internal connector for default settings jumper

Power supply requirements

- 12 to 24 VAC / 9 to 30 VDC, 2 Watt max.

Case

- high quality plastic, 145 g, DIN-rail mount.
- 4.13" x 3.34" x 2.83", 105 mm x 85 mm x 32 mm

MTBF

- Min. 207 000h acc. to MIL217F at 25°C ambient temperature

ENVIRONMENTAL

Operating Environment

- 0 to +40°C / 32 to 104°F

Storage Conditions

- 0 to +70°C / 32 to 158°F, both 0 - 70% relative humidity, non-condensing

CERTIFICATIONS/COMPLIANT WITH

- FCC (A and B), CE (A and B)

Immunity

- EN60730-1:2000

Emissions

- EN60730-1:2000 (Class B)
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