Barix X8

FUNCTIONALITY

The Barix X8 is a universal, low cost, small form factor I/O extension device which connects to a host via Modbus/RTU. The eight universal, TTL level Input/Output pins can be configured to specific functionalities, such as interfacing to Wiegand Readers or Dallas 1-wire temperature sensors.

APPLICATIONS

- Voice Evacuation Systems, 8TTL general Purpose
- Temperature monitoring, logging and HVAC control

FEATURES

- General Purpose I/O (8)
- RS-485 Serial Port (1)
- Supply Voltage (9-30V)
- Wiegand Interface capable
- Up to 8 Temperature Sensors supported

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 X8 available

- 8 configurable inputs/outputs (TTL-level)
- Presetable power-on value for outputs
- RS-485 serial interface
- Protocol: Modbus/RTU
- Connects to LED displays, buttons, temperature and humidity sensors
- Converts WIEGAND reader interface to RS-485 serial interface

TECHNICAL SPECIFICATIONS

Connectors

- Power/RS-485, I/O (I/O, 5Vout,GND) and service interface on spring contact connector blocks for wires AWG 28 – AWG 16 / 0.08 – 1.3 mm²

Inputs/Outputs

- 8 I/O's (usage and power-on preset configurable over RS-485) on spring contact connector block for wires AWG 28 – AWG 16 / 0.08 – 1.3 mm²
- Inputs with internal 10 kOhm pull-up
- Max total 5 Vout & outputs current @ (V supply): 24 mA (30 VDC), 32 mA (24 VDC), 85 mA (12 VDC)

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RS-485 / Protocol

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

Misc

● 1 LED for power indication
● 1 LED for RS-485 active send indication
● 2 LED for internal status indication
● External connector for default settings jumper

Power supply requirements

● 12 to 24 VAC / 9 to 30 VDC, 1 Watt max.

Case

● high quality plastic, 33 g, Ø 2" (2.75" mounting)   h 0.9"/ Ø 51 mm (70 mm mounting) h 23 mm

MTBF

● Min. 590 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)