



BARIX

R6

DIN-rail mountable relay unit for commercial control, power switching and home automation applications



6 relays (250 VAC 10 A, NO & NC)

RS-485 serial interface

Protocol: Modbus/RTU

Two extension connectors for easy daisy chaining of power supply, additional relay units (R6), I/O units (IO12) etc.

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Technical Specifications

Relays:

6 relays (250 VAC 10 A, 16 Amax <1sec) on screw block with common, NO (normally open) and NC (normally closed) contacts for wires AWG 26 – AWG 14 / 0.15 – 2.5 mm²

RS-485 / Power / Expansion:

Power/RS-485 on detachable screw block for wires AWG 28 – AWG 16 / 0.08 – 1.3 mm²
2 extension connectors (3"/75 mm cable incl.)

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
6 LED for relay status indication
Internal connector for default settings jumper

Power supply requirements:

12 to 24 VAC / 9 to 30 VDC
3.5 Watt max. (all relays active)

Case:

high quality plastic, 220 grams, DIN-rail mount.
4.13" x 3.34" x 2.83"/105 mm x 85 mm x 32 mm

Reliability,environmental conditions:

MTBF: Min. 237'000h acc. to MIL217F at 24 VDC supply and 40°C ambient temperature
Operating temp.: 0 to +40°C / 32 to 104°F,
storage temp.: 0 to +70°C / 32 to 158°F,
both 0 - 70% relative humidity, non-condensing

Conformity:

FCC (A and B), CE (A and B)
Emission EN60730-1:2000 (Class B)
Immunity EN60730-1.2000

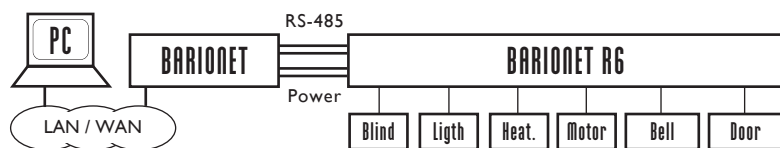
Overview

Barix R6 is a DIN-rail mountable relay module for commercial control, power switching and home automation applications.

Using the industry standard Modbus protocol over 2-wire RS-485 the device can be controlled from any Modbus capable master.

Six independent relays allow the use of the Barix R6 in a wide range of switching applications:

- Switching power (lights, blinds, heating, power relays, motors)
- Activate bells, door strikes, indicators and alarms



Each relay has three connections (common, normally closed and normally open) available at screw terminal blocks supporting wires from AWG 26 / 0.15 mm² up to AWG 14 / 2.5 mm².

To connect to other Barix devices the Barix R6 features two extension connectors on both sides of the device carrying power and RS-485 signals (one extension cable included).

Barix R6 supports Modbus/RTU protocol at speeds of 9'600 and 19'200 Bauds, with and without parity. Special commands have been added to the Barionet R6 to support also non Modbus native control systems. Up to 31 Barix extension units can be directly connected to a Modbus Master such as the Barix Barionet and can be increased to up to 250 devices using standard RS-485 repeaters.

Using the Barix Barionet, the Barix R6 can be controlled by a local Basic application (BCL) as well as remotely using TCP, UDP, Modbus/TCP and SNMP.

Barix R6 is a low cost alternative to add high power switching capabilities to Modbus systems.

A mounting bracket is available as an accessory.

For further information, distribution partners, detailed technical specifications and information about other versions and products please visit www.barix.com