

# BARIONET R6



## BARIX BARIONET R6

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

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6 relays (250 VAC 16 Amps, 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.



# BARIONET R6

## Technical Specifications

### Relays:

6 relays (250VAC 16A resistive loads) on screw block with common, NO (normally open) and NC (normally closed) contacts for wires AWG26 - AWG14 / 0.15 - 2.5mm<sup>2</sup>

### RS-485 / Power / Expansion:

Power/RS-485 on detachable screw block for wires AWG28 - AWG16 / 0.08 - 1.3 mm<sup>2</sup>  
2 extension connectors (3"/75mm 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 24VAC / 9 to 30VDC  
3.5 Watt max. (all relays active)

### Case:

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

### Environmental conditions:

Temperature: 32 to 104° F / 0 to 40° C  
< 70% relative humidity non-condensing

### Conformity:

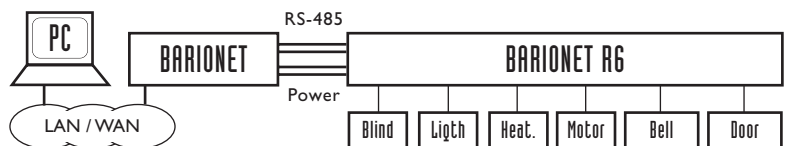
FCC (A and B), CE (A and B)  
Emission EN60730-1:2000 (Class B)  
Immunity EN60730-1:2000

Barix Barionet™ 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 Barionet 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 AWG26 / 0.15mm<sup>2</sup> up to AWG14 / 2.5mm<sup>2</sup>.

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

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

Barix Barionet 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](http://www.barix.com)