

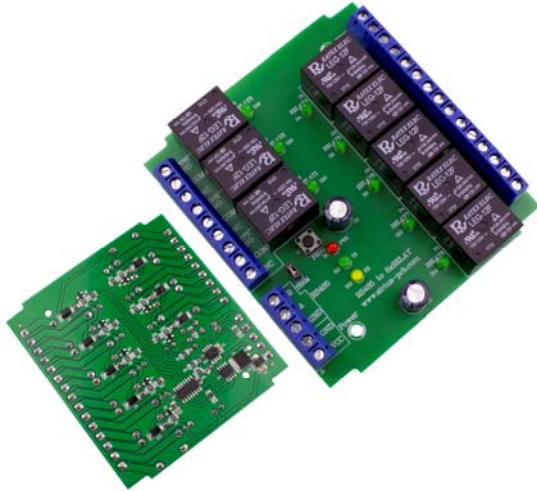


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RS485 to 8xRelay

№100864



The device is commonly used for relay control through RS485 communication interface, standard MODBUS RTU or simplified protocol.

The RS485 interface used allows connecting up to 32 controllers in a communication line up to 1200m.

It is applicable for control of industrial and domestic appliances such as: light fittings, electric lock control, garage doors control and etc.

RS485 to 8xRelay features

- 2-Wire connection by RS485
- Reverse-voltage protection
- 8 relay outputs: **10A 250V**
- LED indication for:
 - Power supply
 - Receiving data
 - Sending data
 - Relay state
- Communication protocol:
 - MODBUS RTU
 - Simplified
- Programming via **RS485 Relay Config** free software for Windows XP, 7, 8, 8.1 and 10
- Device supply voltage: **12VDC 400mA**
- Size: 93mm x 84mm
- Suitable for mounting in DIN rail box – **Z-101**

Description

- device for primary load control at distance up to 1200m through an RS485 communication interface
- terminal J1
 - VCC – power supply 12V DC
 - GND – ground
- terminal J2
 - GND – ground
 - B – RS485 signal line B
 - A – RS485 signal line A
- terminals J3 to J11 – relay contacts

Signalling:

- red LED D1 (PWR) – power supply is on
- green LED D12 (RX) – receiving data
- yellow LED D11 (TX) – sending data
- green LEDs for relay states: D20 (RELAY1), D18 (RELAY2), D16 (RELAY3), D4 (RELAY4), D6 (RELAYS), D8 (RELAY6), D10 (RELAY7) and D14 (RELAYS)

Communication parameters:

- 8 Data, 1 Stop, No Parity, Serial Speed: **9600kbps**

Communication protocol:

- MODBUS RTU
 - command for reading state – **0x01**
 - command for saving state – **0x05**
- Simplified protocol
 - enable output **XX** – **0xFF 0xXX 0x01** or **255 xx 1**
 - disable output **XX** – **0xFF 0xXX 0x00** or **255 xx 0**

Note: XX is the particular output address

Programming:

1. Push button PROG while device is turned off
2. Connect the device to a power supply
3. Green LED starts flashing at 1-second interval
4. Set device's address and communication protocol with **RS485 Relay Config** application
5. Successful programming is indicated by 10 green LED flashings at 0.1-sec interval

Example of Device Wiring Diagram

