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NPEIO-4RO - Relay outputs expansion module with MODBUS RTU output

The NPEIO-4RO module is used as an external device that extends relay outputs of the PLC programmable controllers or other devices in which data is exchanged via the RS-485 port with MODBUS RTU protocol.
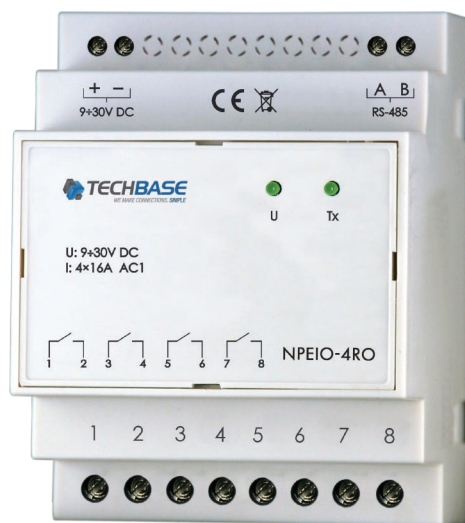

Features

- 1 C/O separated contact
- ON / OFF control
- output status
- timer control options:
    - delayed activation
    - delayed activation for a preset time
    - cyclic operation ON / OFF
    - cyclic operation OFF / ON
- state memory state after power outage
- automatic start for time function
- time of the last output switching
- number output switching
- number of executed cycles for time functions

Działanie

The NPEIO-4RO module is equipped with four controllable relay outputs (separated contacts). Each of the outputs operate independently and in accordance to the preset mode of operation and parameters assigned to it.

The setting and reading the output status, operation parameters and adjustment of all communication and data exchange parameters is carried out via RS-485 port using MODBUS RTU communication protocol. Power is indicated by a green LED U light. Correct data exchange between the module and other device is indicated by the LED yellow Tx light.

MODBUS RTU protocol parameters

- Operation mode: SLAVE

- Port settings:
  Bit/s: 1200 / 2400 / 4800 / **9600** / 19200 / 38400 / 57600 / 115200
  Data bits: **8**
  Parity: **NONE** / EVEN / ODD
  Start bits: **1**
  Stop bits: 1 / 1.5 / **2**

- Range of network addresses: 1-245 (**1**)

- Command codes:
  1: Input state reading
  (0x01 - Read Coils)
  3: Registers group reading
  (0x03 - Read Holding Register)
  5: Output states recording
  (0x05 - Write Single Coils)
  6: Single register value setting
  (0x06 - Write Single Register)

- Maximum frequency of queries: 15Hz

Technical data

PARAMETERS

Supply voltage		9÷30V DC
Output		
	Contact	Separowany 1NO
	AC-1 load	<16A
	Number of contacts	4
Port		RS-485
Communication protocol		Modbus RTU
Operating mode		SLAVE
Indication		
	Power	green LED
	Communication	yellow LED

SUPPLY AND MECHANICAL PARAMETERS

Power consumption	<2W
Working temperature	-20 ÷ 50°C
Terminal	2,5mm screw terminals
Tightening torque	0,4 Nm
Dimensions	4 modules (90mm)
Mounting	on TH-35 rail
Protection level	IP20

Relay outputs expansion module with MODBUS RTU output