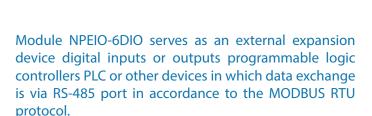


## NPEIO-6DIO - I/O module with MODBUS RTU output



#### **MODBUS RTU protocol parameters**

Work mode: SLAVE

Port settings:

Bits number on sec: 1200 / 2400 / 4800 / **9600** /

19200 / 38400 / 57600 / 115200

Data bits: 8

Parity: **NONE** / EVEN / ODD

Start bits: 1 Stop bits: 1 / 2

Range of network addresses: : 1-247 (70)

Range of base addresses: 1-238

Range of residual addresses (switch code): 0-9

■ The maximum frequency of queries: 15Hz

#### **Functioning**

Module NPEIO-6DIO has six universal contacts. Each of the contacts depending on how the connection can be a digital input or output. Digital input, treated as a "dry contact", is realized by closing the circuit the input to the "minus" power supply module. Digital output, described as "open collector", is realized by closing the circuit the output to the "plus" of power supply module

The module has a recording of output function in non-volatile local memory. After each power-output module will revert to a saved state.

Reading status of contacts, setting their status and communication parameters is realized through the RS-485 port using MODBUS RTU communication protocol.





### Command codes

- 1: Read state of all outputs (0x01 - Read Coils)
- 2: Read state of all inputs (0x02 - Read Discrete Inputs
- 3: Read value of outputs registry (0x03 - Read Holding Register)
- 5: The setting of a single output (0x05 - Write Single Coil)
- 6: The setting of a single output (0x06 - Write Single Register)
- 15: The setting of multiple outputs (0x0F - Write Multiple Coil)
- 16: The setting of multiple outputs (0x10 - Write Multiple Registers)
- 17: Read ID (0x11 - Report Slave ID



# **Technical data**

#### **PARAMETERS**

Power supply	9÷30V DC
Max. current load	25mA
Contact number DI/DO	6
Voltage contact	<50V
Work current contact: constant/pulse (20%)	100mA / 200mA
Port	RS-485
Communication protocol	MODBUS RTU

WORK PARAMETERS		
Working temperature (without condensation)	-40°C ÷ +50°C	
Storage temperature	-40°C ÷ +70°C	
Relative humidity	85% to +30°C	
Fixing	2,5mm screw terminals	
Dimensions	1 moduł (18mm)	
Protection level	IP20	

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