

8-16DI
/8DO

DIN RAIL

RS-485



- 8 binary inputs (input power supply is shared with the module power supply)
- 8 binary outputs (can be selectively configured as inputs. Output power supply is shared with the module power supply)
- 10Base-T/100Base-TX Ethernet port
- RS-485 serial port for data sharing (galvanic isolation)
- Diagnostic LEDs
- Standard communication protocols (Modbus RTU, Modbus TCP)
- Remote configuration and firmware updates via Ethernet port using MT telemetry module with Ethernet port
- Local configuration via Ethernet/USB-C port
- DIN rail mounting option
- Detachable terminal blocks (screw type)
- 3-year warranty



The EX-D16 expansion module is a universal solution that allows telemetry modules to be expanded to support additional binary input/output signals. The device features a compact design, making it ideal for installation in confined spaces. The industrial housing with a DIN rail mounting system allows for easy installation and mounting in control cabinets. Detachable screw terminal blocks ensure safe and secure signal connection and easy connection without the need for specialised tools.

The expander is equipped with eight 12/24V binary inputs and eight binary outputs with the option of selective configuration as inputs. The power supply for the inputs/outputs is shared with the module power supply. The EX-D16 module can communicate with any Master/Client device supporting Modbus RTU or Modbus TCP standards. This ensures broad compatibility with various systems and devices, not only from the telemetry module family. The advantage of this solution is the possibility of remote configuration and internal software updates using the Ethernet interface.

Resources:

- 8 binary inputs
- 8 binary outputs
- RS-485 serial port (galvanic isolation)
- 10Base-T/100Base-TX Ethernet port
- Internal non-volatile memory for configuration data with remote update capability
- USB-C port for local configuration and internal software updates
- LED indicator lights
- The device is equipped with a 10-digit display with a resolution of 1 digit.

Functionality:

- Access to internal module resources via standard Modbus RTU and Modbus TCP protocols
- Remote configuration and internal software updates via local Ethernet network
- Protection against unauthorised access in the form of a password
- DIN rail mounting
- 12/24 V DC power supply
- Detachable terminal blocks
- LEDs (module status, input status, transmission and reception activity of communication ports)
- User-friendly configuration tools

General

Dimensions (H x W x D)	52,5 x 86 x 58 mm
Weight	155 g
Mounting method	35 mm DIN rail
Operating temperature	-25 to +55 °C
Protection class	IP20

Inputs I1 – I8

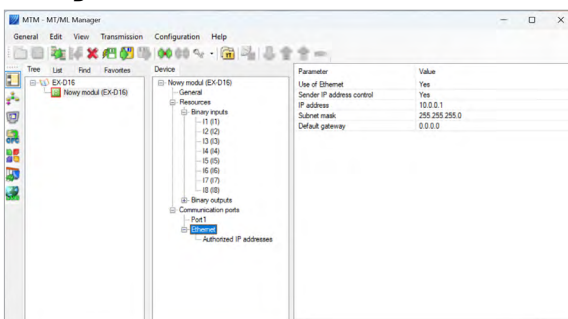
Input voltage range	0 – 30 V
Input current	2,4 mA
Input voltage ON (1)	> 9,4 V
Input voltage OFF (0)	< 8,4 V

Outputs IQ1 – IQ8

Maximum output current	100 mA
Voltage drop for 100 mA	<0,5 V
Current in off state	<100 μ A

Power Supply

DC constant voltage (nom. 12/24 V)	11 – 30 V DC		
Supply current (typ.) @ 25°C	Idle	Active	Max.
12 V DC	0,06 A	0,12 A	0,20 A
24 V DC	0,03 A	0,06 A	0,10 A

Configuration software**Drawings and dimensions (all dimensions in millimeters)**