

# DOMIQ/Serial-4MB

**DOMIQ/Serial-4MB** was designed to integrate **DOMIQ/Base** module with devices that use MODBUS protocol e.g. energy meters, thermo-hygrometers or PLCs. The module **DOMIQ/Serial-4MB** works as a *master* device. It sends command to other MODBUS devices.

Module is designed to be installed in the installation closet on the 35mm DIN rail. Before installation on DIN rail please push lock on the bottom of the module. Due to the length of the standard ribbon cable, the module should be mounted on the right side of the **Base** module.

Module's interface is compatible with RS-485 standards. It handles the MODBUS RTU protocol at bit speeds of 9600, 19200 or 38400 and frame formats 8N1, 8N2, 8E1 and 8O1. Up to 32 devices can be connected simultaneously to the MODBUS bus. This limitation is caused by standard input currents of the RS-485 devices.

## Connections

- **IN** connector - ribbon cable connecting module with **EXT** connector of the **Base** module or with **OUT** connector of the other **DOMIQ** extension module. Before plugging the ribbon cable, the **Base** module should be disconnected from the power line.
- **D** and **/D** connectors - MODBUS wires. Incorrect connection will be indicated by **ERR** LED lighting. If that occurs, switch the wires connection.

## Signaling

Status LEDs are installed on the lower part of the module: **ACT** (blue), **ERR** (red), **TX** (yellow), **RX** (green). Normal operation of the module can be recognized by quick blinking of the **ACT**.

**DOMIQ/Serial-4MB** module is configured using web configuration program of the **DOMIQ/Base**. Configuration consists of a list of device addresses, register numbers and their formats. Configured registers are read one by one in the loop.

In order to verify that module operates correctly, it is necessary to configure registers reading.

**TX** blinks when data is transmitted over MODBUS. **RX** blinks when data is correctly received.

Correct communication on MODBUS can be identified by alternating blinking of **RX** and **TX**.

Communication errors are indicated by **ERR** lightning.

