

Converter Modbus TCP to RTU and back

- designed for mounting on a DIN 35 rail
- Ethernet input is galvanically isolated at 1500V, in a manner common for internet circuits
- supply voltage range 8 .. 30V DC
- the negative supply pole is galvanically connected to the RS485 line
- converter configuration via web interface



The module is used to create a remote RS485 Modbus-RTU link, or to convert RS485 Modbus-RTU to Modbus-TCP.

From serial number 4608001 onward, the direction can be set programmatically. This allows remote access to the Modbus network via the Ethernet interface. The device can be set programmatically to Gateway Mode RTU-TCP or TCP-RTU. Using two devices, it is thus possible to create a single Modbus RTU network in two locations, interconnected via Ethernet using Modbus TCP.

Operating principle:

Diagram 1

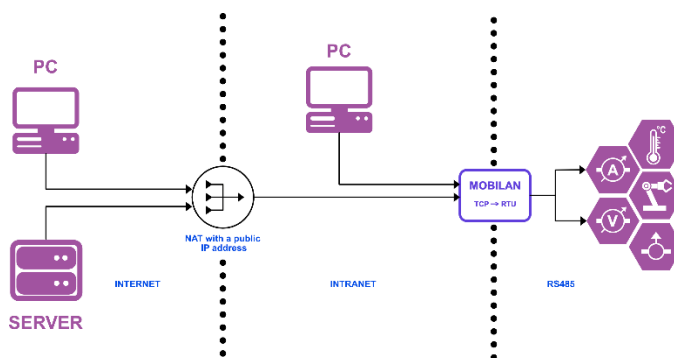
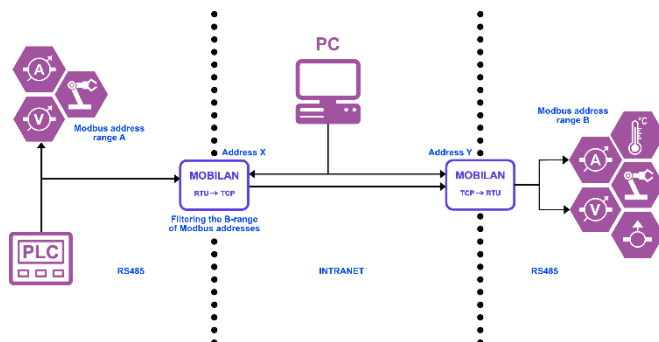


Diagram 2



Device parameters:

- operating temperature range:	-30...+ 70°C
- supply voltage	8 .. 30Vdc
- power consumption:	max. 2VA
- enclosure/terminal block protection rating:	IP40 / IP10
- weight:	90g
- dimensions:	85 x 22.5 x 75 mm
- signalling	Ethernet connection / Ethernet activity
- number of connected units	up to 63 (unless limited by the connected units)
- dielectric strength:	1500Vrms, 50Hz/1 min – power supply to Ethernet input
- environment:	ATTENTION- the RS485 output is at the same potential as the power supply!
- storage temperature range	pollution degree 2, installation overvoltage category III -40..80°C

Type tests:

EMC according to	ČSN EN IEC 61326-1 ed.3
Safety according to	ČSN EN 61010-1 ed.2

Ordering:

The converter is available in only one design variant. To order, simply state the type and quantity (e.g., Mobilan 2pcs).

The converter is supplied with the following default settings:

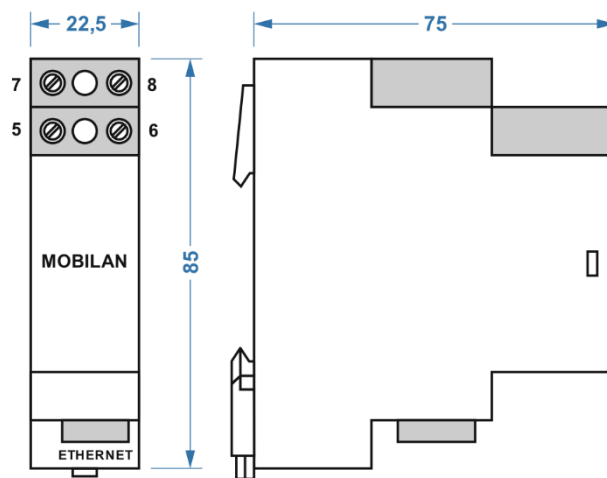
On the Ethernet side	IP address 192.168.25.102
	Netmask 255.255.255.0
	Gateway 192.168.25.1
	Modbus TCP listen port 502
On the MODBUS side	Modbus RTU baud rate 19200 Bd
	Modbus RTU word length 9B
	Modbus RTU parity EVEN
	Modbus RTU stop bits 1b
	Modbus RTU oversampling 16b
Gateway Mode	TCP->RTU

Example:

2pcs MOBILAN

Terminal wiring:

5	B (D-) Modbus
6	A (D+) Modbus
7	GND Power supply 8 ..30V dc
8	+ Power supply 8 ..30V dc

**Converter mounting:**

The mounting orientation of the converter is not specified. Vertical mounting on the DIN 35 rail with the latch facing down is recommended. An RJ45 socket is used to connect the Ethernet network. The terminal blocks used allow connection of conductors up to 3.5mm² in cross-section. We recommend using a cable with a conductor cross-section of 1.5 or 2.5mm², depending on the required line resistance. The terminal blocks use M2.5 screws, so it is necessary to use **only moderate force when tightening the terminal**.

Mechanically, the converter is mounted on a 35 mm DIN rail. After placing the upper edge of the mounting notch onto the rail, use a screwdriver to push back the latch and press the lower part of the converter toward the rail. Once the screwdriver is released and the spring mechanism locks into place, the mounting is complete.

For your specific application, we recommend reading the detailed manual available on our website.



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