



TCPRS1+

TCPRS1+, RS-485 / Ethernet converter / Wi-Fi

Code: D80010.

> Protocol: TCP/IP | UDP | Modbus TCP/IP | HTTP (Web server)

> Communications: Ethernet, Wi-Fi

Description

Physical media conversion gateway, designed to connect Modbus RTU devices with Modbus TCP/IP networks. Its compact DIN rail design (2 modules) allows for easy installation and adaptability to multiple environments. Each gateway can manage up to 32 locally connected Modbus RTU devices via the RS-485 port. It offers features such as:

- Ethernet and Wi-Fi communication for Modbus TCP/IP.
- Serial RS-485 communication for Modbus RTU.
- Integrated web server with an intuitive and user-friendly interface for advanced Wi-Fi settings.
- Compatible with the MyConfig app, for fast and easy set-up.

Application

Thanks to its direct conversion between Modbus RTU and Modbus TCP/IP, these gateways are ideal for integration projects involving RS-485 communication devices that need to be monitored or controlled over Ethernet or Wi-Fi networks. Typical applications include:

- Automation of utility infrastructures through PLC or BMS integration.
- Monitoring and control of Modbus RTU devices from cloud platforms or centralised supervision systems.
- Modernisation of existing installations by adding TCP/IP connectivity without modifying RS-485 cabling.



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Specifications

AC power supply

Installation category	CAT III
Consumption	2 ... 7 VA
Frequency	50 ... 60 Hz
Nominal voltage	100 ... 264 V ~

DC power supply

Installation category	CAT III
Consumption	1,6 ... 2 W
Nominal voltage	120 ... 300 Vdc

Mechanical characteristics

Size (mm) width x height x depth	35 x 109.45 x 70 (mm)
Envelope	Self-extinguishing V0 plastic
Fastening	DIN rail
Weight (kg)	0,192

Environmental characteristics

Protection class	IP30, Front: IP40 IK08
Relative humidity (without condensation)	5 ... 95%
Storage temperature	-20 ... +70 °C
Working temperature	-20 ... +60 °C

Communication Network

Protocol	TCP UDP Modbus TCP/IP HTTPS (Web server)-REST
Technology / Interface	Ethernet

Standards

Electrical safety, Maximum height (m)	2000
Standards	EN 62368-1:2020/A11:2020/ AC:2020-05, EN 50663: 2017, ETSI EN 301 489-1 V2.2.3, ETSI EN 301 489-17 V3.2.4, ETSI EN 301 893 V2.1.1, EN 18031-1

User interface

LED	6 LED
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Serial communication

Technology / Type	RS-485
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Wireless communication



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Technology / Type

Wi-Fi

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CODE	TYPE	Communications	Protocol
Ethernet			
D80010.	TCPRS1+	RS-485, Ethernet, Wi-Fi	TCP/IP UDP Modbus TCP/IP HTTP (Web server)
D80011.	TCPRS1+PSDC	RS-485, Ethernet, Wi-Fi	TCP UDP Modbus TCP HTTP (Web server)-REST

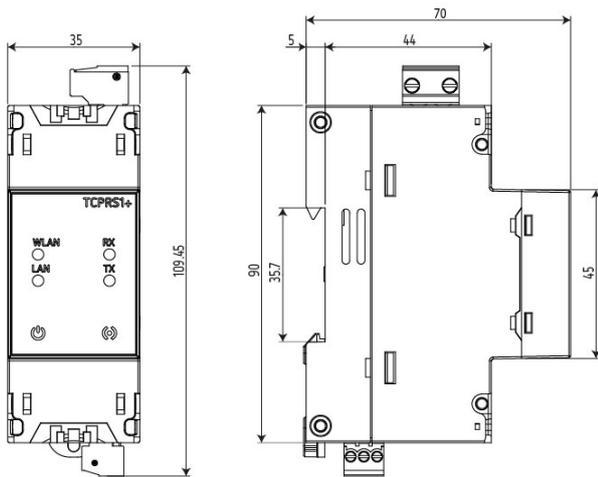


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Dimensions



Connections

