

Ethernet to RS485 Converter UC-ETH-RS485

Features

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Features



Key Features

- Works with all type of industrial equipments
- RS485 Rx and Tx light indications for easy visibility and troubleshooting
- RJ45 Status light indications, RJ45 built-in 2KV isolation
- Easy to use web page configuration option
- Unique MAC address
- Compact design suitable for both DIN Rail and Wall mount
- Support 10/100M, TCP Server, TCP Client, UDP, Httpd Client, Web socket
- Supports Transparent Mode data transmission
- Supports Modbus TCP to Modbus RTU protocol conversion
- ESD and Surge protection for Ethernet, RS485 and Power

Ordering Information

Product Code	Description
UC-ETH-RS485	Ethernet to RS485 Converter UC-ETH-RS485
SPD-ETH-RJ45	Ethernet Surge Protection Device
SPD-RS485	Surge Protection Device RS485
UC-ETH-RS485-D	Ethernet to Dual RS485 Converter
UC-RS485	USB to RS485 Converter

Applications

- **Industrial Automation & Process Control:** Reliable signal interfacing and device connectivity across automated production lines.
- **SCADA & PLC Integration:** Seamless communication between field instrumentation and control systems.
- **Control Panel Building:** Compact 35 mm DIN rail mounting for clean and space-efficient cabinet wiring.
- **OEM Equipment & Diagnostics:** Robust electrical protection and standard industrial ratings.

Specifications

Parameter	Value
Mounting Type	35 mm DIN Rail Mounting
Dimensions	60 mm x 50 mm x 20 mm (L x W x H)
Enclosure Material	Industrial ABS plastic
Operating Temperature	−10 °C to +60 °C
Storage Temperature	−40 °C to +85 °C
Relative Humidity	5% to 95% RH (non-condensing)

Electrical Specifications

Parameter	Specification
Power Supply	24V DC
Baud Rate Range	300 bps to 230.2k bps
Data Format	7/8 Data bits, 1/2 Stop bits, None/Even/Odd Parity
ESD Protection	±15 kV Air / Human-Body Model (IEC 61000-4-2)
Surge Immunity	600W TVS Clamping across communication lines

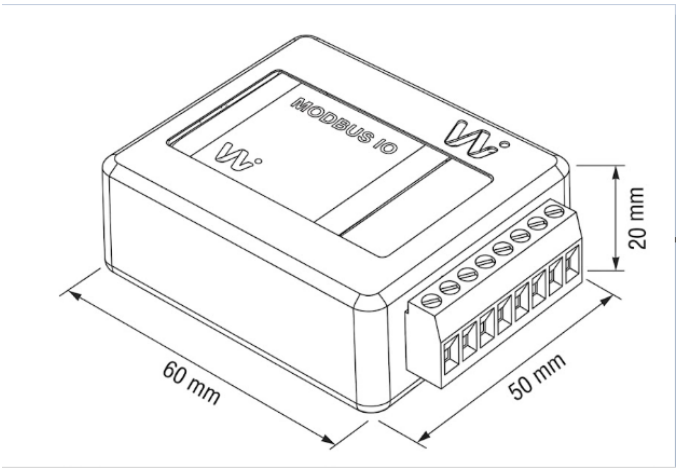
Isolation & Protection Specifications

Parameter	Value	Standard / Notes
Galvanic Isolation	1,500 V RMS	Galvanic barrier between field port and host interface
Reverse Polarity Protection	Integrated	Series diode on DC power input terminals
ESD Immunity	±15 kV	IEC 61000-4-2 Air Discharge / Contact
Surge Protection	600W Clamping	Clamps overvoltage line transients

LED Indications and Diagnostics

LED	Color	Status	Description
PWR	Red	ON	Normal power supply operational
TX	Green	Blinking	Transmitting serial data
RX	Yellow	Blinking	Receiving serial data

Mechanical Dimensions



Terminal Details & Port Pinouts

Standard industrial screw terminal blocks and pluggable connectors for field wiring.

Revision History

Revision	Date	Description of Change
Rev 1.0	2026-09-09	Initial datasheet release for UC-ETH-RS485

Get the latest version of this datasheet : **click here..**

Support

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