

Isolated RS232 To RS485

Isolated RS485 Signals up to 2.5Vrms

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Key Features

- Isolated RS485 Power up to 1KVRms.
- Supports Auto-Direction Control. No flow
- Supports all Baud Rates from 300 to 250
- Works with all type of industrial equipments
- RS485 Rx and Tx light indications for easy
- ESD protection for RS232 and RS485 pins
- Compact design suitable for both DIN Rail and
- Dimension in mm – 110 x 74 x 35
- 1 Year Warranty against any manufacturing

Ordering Information

Product Code	Description
UC-ISO-232-485	Isolated RS232 To RS485
SPD-RS485	Surge Protection Device RS485
UC-RS232-RS485	RS232 to RS485 Converter
UC-ISO-485-485	Isolated RS485 To RS485
UC-ETH-RS485	Ethernet 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 (12 ~ 28V 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

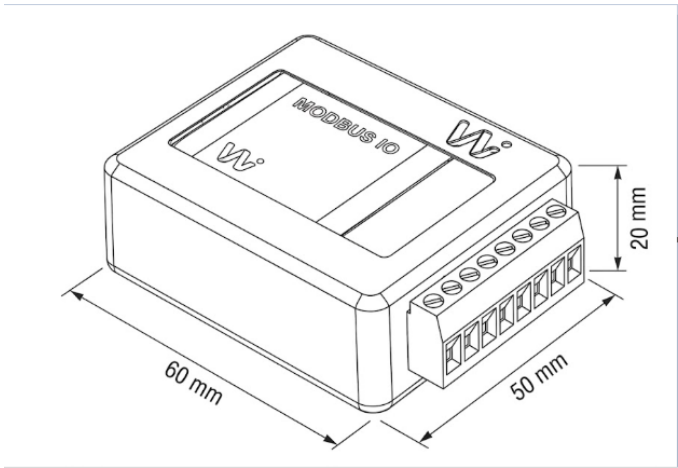
Isolation & Protection Specifications

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-ISO-232-485

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Support

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