

RS232 to RS485
Industrial Isolated Converter
Part no. USC-W232D



USC-W232D is an industrial grade galvanic isolated RS232 to RS485 converter which can convert RS232 signals to balanced differential RS485 signals in both directions.

Built-in power isolation makes sure the supply voltage is properly isolated from the signal voltage. The supply voltage is completely isolated from the isolated terminals. This RS232 to RS485 converter also has built-in isolation for the signal lines providing error-free and clean data communication while avoiding electrical interference, surges and voltages spikes damaging the data signal and connected equipment. Onboard TVS (Transient Voltage Suppressor) and ESD protection, effectively protects against surge voltages and transient peak voltages in the circuitry and provides protection against static electricity. An onboard self-recovery fuse and protection diodes, ensures a stable voltage output, and protects against over-current and overvoltage's.

Overall features

- Industrial grade strength
- Isolated power and signal lines
- Onboard TVS (Transient Voltage Suppressors)
- Built-in self-recovery fuse and protection diodes
- Fail-safe bias resistors
- Screw terminals for easy connection
- Automatic Send Data Control
- Control LEDs for TX, RX and power
- Compatible with Modbus RTU/ASCII, BACnet
- Onboard 120 ohm terminal resistor
- Wide voltage range of 5 – 36VDC

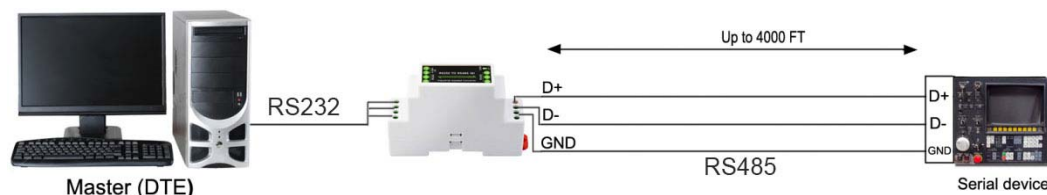
To access technical support, please visit the U.S. Converters website at:
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Here you will find:

- Latest drivers and updates for download
- Technical tips
- Documentation
- Configuration support
- and much more...

Feel free to contact our technical support team at mail@usconverters.com with any issues.

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SPECIFICATIONS	
Model number	USC-W232D
Indication LED lights	Power, TX, RX
Baud rate	300 - 115200bps
Power	External 5-36VDC
Current	< 350mA
RS232 Interface	DB9 female connector. Pin 7 (RTS) and 8 (CTS) are tied together. Pin 4 (DTR), 6 (DSR), and 1 (CD) are tied together.
RS485/422 interface	Screw terminal
Isolation	2.5KVrms/600VDC isolation, dedicated DC/DC module, 600W +/-15KV ESD protection
Standards	EIA/TIA RS-232/485/422
Installation	35mm standard DIN rail / screws
Handshake / flow control	Automatic Send Data Control
Certifications	CE, FCC, RoHS ISO 9001 Certified
Operating Temp.	-13°F to 158°F (-25°C to 70°C)
Operating humidity	5% To 95% - No Condensation
Dimensions	91.6 × 58.7 × 23.3mm
Warranty	1-year limited warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

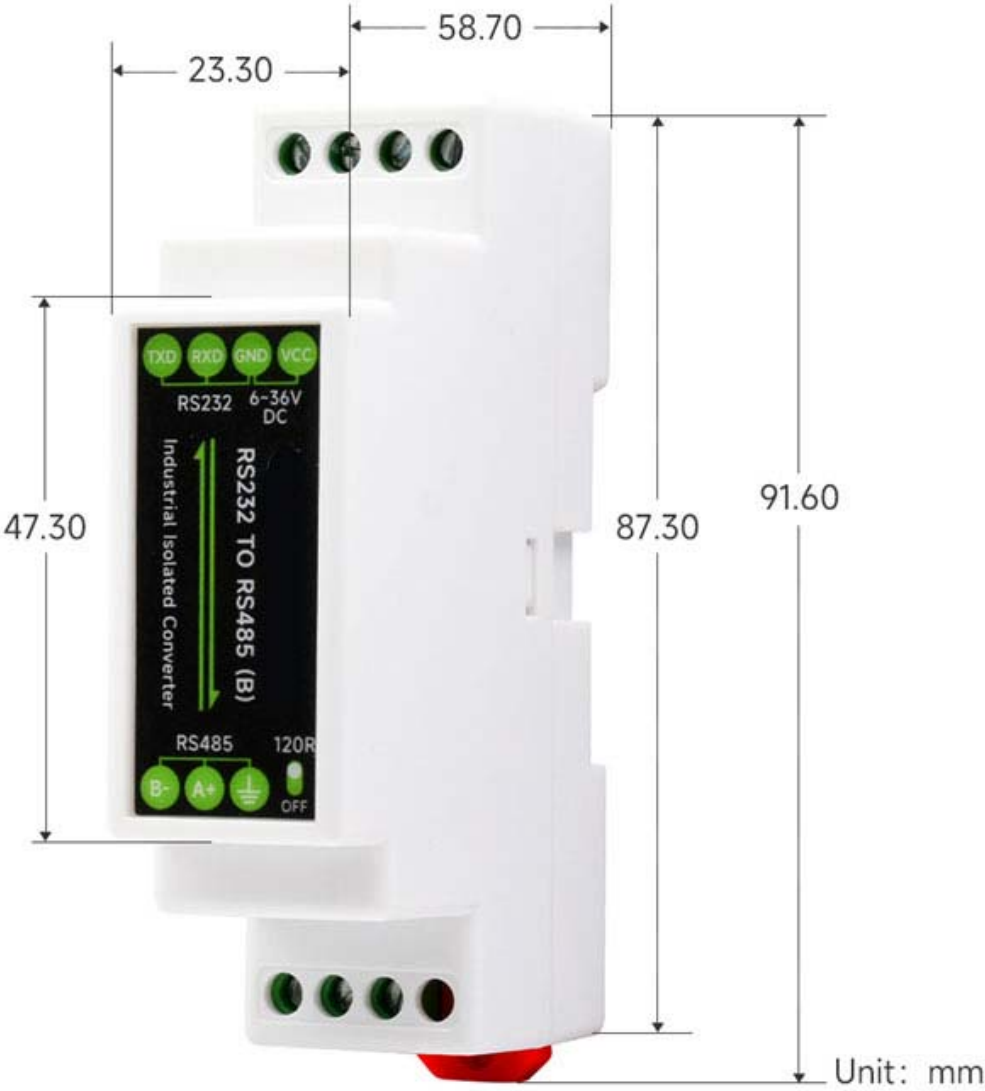


Screw terminals and lights



TOP SIDE SCREW TERMINAL		BOTTOM SIDE SCREW TERMINAL	
VCC	Power input DC 5V ~ 36V Power Supply	120R	120R Enable Pin Header
GND	Ground/ RS232 Signal Ground	SGND	RS485 Signal Ground
TXD	RS232 Signal Transmitting Pin	A+	RS485 Differential Signal A+
RXD	RS232 Signal Receiving Pin	B-	RS485 Differential Signal B-

Dimensions



Setup examples

