

USB to RS485 Converter, 5V Output, 6 KV Surge Protection / 3 KV Isolation

This mini USB to RS485 Converter is an entry-grade communication interface designed to connect USB hosts to RS485 serial networks reliably and safely. It converts USB signals to RS485, offering robust electrical protection and broad compatibility without the need for external power supplies. After installing the drivers this converter supports plug-and-play operation, automatic transmit/receive control, and multi-node communication, making it ideal for general use and industrial automation, data acquisition, and network expansion projects.

This converter has an AUX terminal (VCC and GND) which can be used for powering a low-voltage (5V) device. The amperage depends which type of USB the converter is connected to (USB 2.0 or 3.0).



Indication lights

Name	Color	Status	Description
PWR	Red	On	USB power access
TXD	Green	Flash	Serial port data sent
RXD	Orange	Flash	Serial port data received

SPECIFICATIONS	
Part number	FC-2001
Operating system	Windows 11/10/8.1/8/7/VISTA/XP/2000/98, Server 2022/2019/2016/2012/2008/2003 -32/64bit, Microsoft WHQL/HCK Certified
Processor	CH340
Power	5VDC provided by USB port
Serial interface	RS485 2-wire half-duplex, screw terminals, A, B, signal GND, GND and VCC
Compatible with	Modbus RTU/ASCII, BACnet
Bias resistors	Yes
USB interface	Standard Type B Female. Static protection $\pm 15\text{kV}$ (air), $\pm 8\text{kV}$ (contact), EFT protection 40A(5/50ns), surge 5A(8/20us). 200mA self-recovery fuse (USB)
Indication LEDs	Power, Send and Receive
Baud rate	300 to 921600bps
Parity	None, Odd, Even, Mark, Space
Data Bits	5, 6, 7, 8
Stop Bits	1, 1.5, 2
Flow Control	Hardware automatic control
COM port accessible by	Included virtual COM port drivers
Isolation	RS485 port: GB/T17626.5(IEC61000-4-5), 10/700 μs short circuit, 6KV open circuit peak output voltage
Electrostatic (ESD) protection	15KV/ 600W/ms high voltage protection
Current draw	Static: less than 80mA. Dynamic average: less than 30mA
Dimensions	70 × 26 × 14 mm
Interface compliance	USB1.1,2.0,3.0, EIA/TIA RS-232
Regulatory compliance	FCC, CE and RoHS
Operating temp	-40C to +85C
Warranty	1 year limited warranty

To access technical support, please visit the U.S. Converters website at: www.USconverters.com.

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

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