

## USB to RS485/422 Isolated converter

Part no.: U485G



- Fully optical isolated
- USB port-powered
- Industrial grade
- FTDI FT232BL processor
- DIN mountable
- Screw terminal interface

The U485G is a true industrial grade optical isolated USB to RS485 / RS422 converter. It can be mounted on a standard DIN rail or optional screws, so its easy to install it in any standard electrical enclosure.

An interesting feature of this converter is that it has a built-in terminal resistor which can easily be enabled or disabled with a slide switch on top of the converter. Additionally a second slide switch is used to switch between RS485 and RS422.

This converter is powered from the USB port so no external power supply is required.

Optical isolation is provided by four high-speed 6N137 opto-couplers from Fairchild Semiconductors, which provides super reliable isolation at voltages of up to 700V continuous and 3500V spike, which effectively will protect your equipment,

the converter and the data communication against high voltage spikes, surges and ground loops; an essential feature to have in industrial environments.

Indication LED lights for TX and RX clearly indicates when data is present which is a great help when troubleshooting, or simply just to see when the converter is turned on and working.

The chipset in this USB to RS485 / RS422 converter is the highly reliable and high performance FT232BL processor from FTDI which leaves no question about the high quality of this converter.

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SPECIFICATIONS	
Model number	U485G
Recommended operating system	<ul style="list-style-type: none"> <li>Windows 10 32/64, Windows 8 32/64, Windows 7 32/64, Vista 32/64, XP 32/64, Server 2003/8R2 32/64, 2000, ME, 98Se</li> <li>Linux 2.40 or higher</li> <li>Mac OS 9, OS X</li> </ul>
Processor	FT232BL
Opto-coupler	6N137
Serial driver	SP491EEN
Baud rate	300-3Mbps, auto detection
Power	Port powered from USB port
Output 1	RS422 4 wire Full Duplex
Output 2	RS485 2 wire Half Duplex
Installation	35mm DIN mount or screws
RS422/RS485 selection	Manual switch
USB cable	23 inches
Optical Isolation	700V continuous and 3500V spike
ESD protection	15KV / 400W
RS485 / RS422 interface	Screw terminal header
USB interface	Male type A
Parity	None, Odd, Even, Mark, Space
Data bits	7, 8
Stop Bits	1, 2
Flow Control	None, Xon/Xoff, Hardware
Indication LEDs	TX, RX and Power
Buffer size	128/385 Bytes
Serial signals	RS422: TX-, TX+, RX-, RX+, GND (full duplex) RS485: D-, D+ GND (half duplex)
USB signals	VCC, DATA+, DATA-, GND, FG
Flow control	Automatic. No IRQ Conflicts, no IRQs, IO or DMA required
Operating humidity	5% To 95% - No Condensation
Operating Temp.	-20 to 70C
Certifications	CE, FCC, RoHS
Warranty	2-year Limited Warranty
ECCN	4A994.a
Schedule B	8471.80.1000
HTS	8517.18.0050

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## Connection table

Pin no.	RS485 Screw terminal	RS422 Screw terminal
1	D+	
2	D-	
3		TX+
4		TX-
5		RX+
6		RX-
7	Signal GND	Signal GND
8	GND	GND

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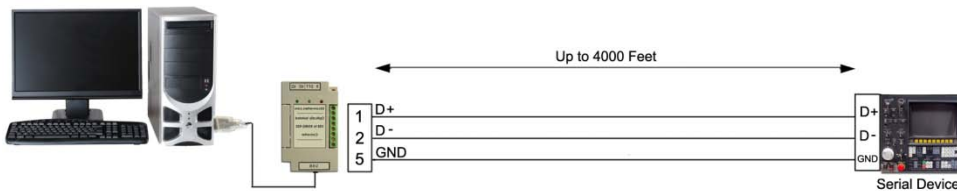
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## Connection example:



**Please download drivers and driver installation instructions for this product at:**

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