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Electronics

USB to RS485/422 Converter Isolated
Part no.: MWE820B

- Port powered from USB port

- Optically isolated industrial grade

- DIN mountable

- RS232, RS485 and RS422 interfaces

- Silicon Labs CP2102 processor

- Electrostatic protection

- Simultaneous data transfer for all 3 ports

Here is a fully optically isolated true industrial grade USB to serial adapter. It has one RS232 port, one RS485 port and one RS422 port and it can transfer data through all 3 ports at the same time.

After the drivers are installed one virtual COM port will show up in your operating system's Device Manager, this COM port can be used as if it was a standard built-in COM port.

The serial processor chip for this adapter is a CP2102 from Silicon Labs. This processor is often used in high-end industrial devices for its high performance and reliability.

Optical isolation is achieved by high speed 6N137 isolation optocouplers from Fairchild Semiconductors, which effectively protects your equipment and data against all types of high voltage spikes, surges, static electricity and ground loops.

This USB to serial adapter is powered from the USB bus so no external power supply is required. It can be installed on a standard DIN rail or mounted by screws, and used with point-to-point and point-to-multipoint networks which make it ideal for any industrial application.

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Specifications

SPECIFICATIONS	
Part number	MWE820B
OS	- Windows 10 32/64-bit, Windows 8 32/64-bit, Windows 7 32/64-bit, Server 2008 32/64, Server 2008 R2, Vista 32/64-bit , XP, 2000, ME, 98 - Linux 2.40 or higher - Mac OS 9, OS X
Power	5VDC provided by USB port
USB	V.2.0 compliant with USB 1.1
Output 1	RS232 2-wire, output voltage: ~8.9VDC
Output 2	RS422 4-wire Full Duplex, output voltage: ~5.0VDC
Output 3	RS485 2 wire Half Duplex, output voltage: ~5.0VDC
Baud rate	300 - 115.200bps
Optical Isolation	700V continuous and 3500V spike
ESD protection	15KV/ 600W/ms high voltage protection
Installation method	35mm standard DIN rail or screws
Serial interface	Terminal block
Operating Temp.	-40°C to 85°C
Typ. comm. range	3000M (4800bps), 2000M (9600bps)
Dimensions	102mm x 69mm x 33mm
Indication lights	Power, Send and Receive
Warranty	2-year Limited Warranty

Connection table

Screw Terminal	RS485	RS422	RS232
1	D+		
2	D-		
3	GND	GND	GND
4		TX+	
5		TX-	
6		RX+	
7		RX-	
8	GND	GND	GND
9			TX
10			RX

Connection example: extending communication distance with RS485

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Specialists in Serial Communication. With over 15 years of experience in the field we can solve most serial problems.

PRODUCTS

Large selection of Serial RS232, RS485 and RS422 converters, USB to Serial adapters, Isolators, Ethernet to Serial converters, Serial Repeaters, Wireless Serial modules, Serial Bluetooth adapters and Serial Port Cards.
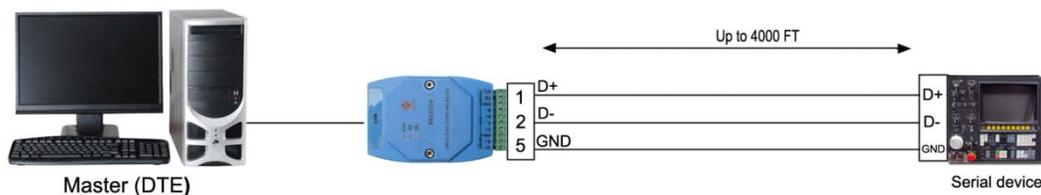
TECHNICAL SUPPORT

To access technical support, please visit www.NordField.com where you will find:

- Latest drivers and updates
- Technical tips
- Documentation
- Configuration support
- and much more…

Feel free to contact our technical support team at:

mail@usconverters.com

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

www.Nordfield.com

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