Troubleshooting

Q. What operating systems are supported?
A. Win XP 32/64 bit, Win 7, Win 8.

Q. Which USB cables can I use?
A. A 3 foot cable is included.Other lengths can be purchased separately. The maximum range for USB is 15 ft. We sell USB extenders if you need to go further than 15 ft.

+ QUICK START GUIDE

USOPTL4-2P & USOPTL4-4P

2-Port and 4-Port Isolated
USB to RS-422/485 Converters

Before you begin, be sure you have the following:

+ USOPTL4-xP
+ One Meter USB Cable
+ CD ROM and Drivers

B+B SmartWorx
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Fast and easy on the web: www.advantech-bb.com

Product Overview

Front

Rear

USB Port

Power Terminal Block
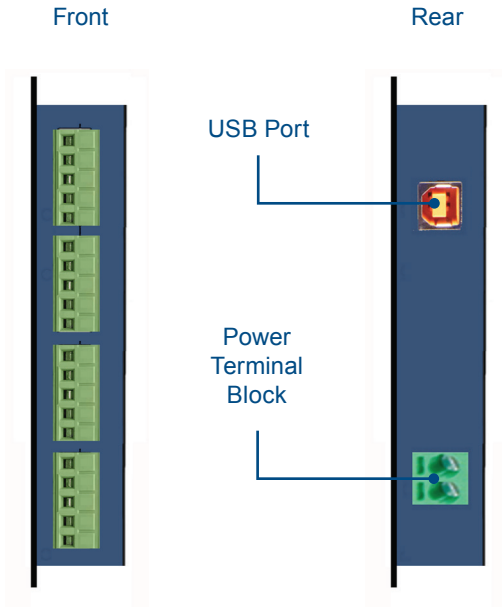
1 | Install Drivers

Use the included CD to install the converter's drivers.

Warning: To prevent installation errors, do not plug in the hardware until you have already installed the drivers

After connecting the device you can check Device Manager to learn which Com port number was assigned (Control Panel/ System/Hardware/Device Manager/Ports LPT & COM).

You can re-assign COM numbers by clicking the Advanced Settings button on the Port Settings screen.
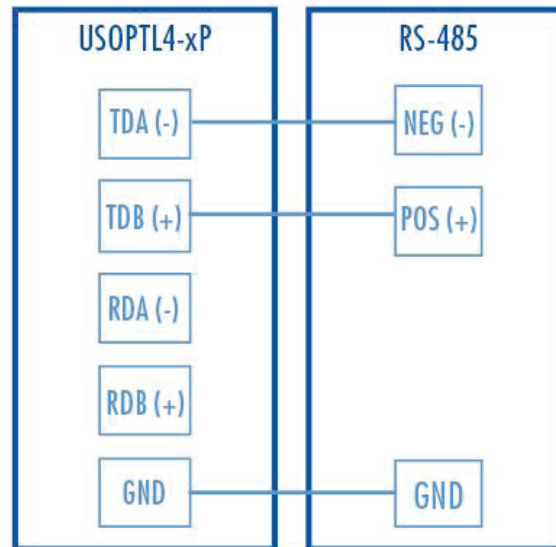
2 | Set Dip Switches

OFF=left   ON=right

DIP Switch Position		
Switch	OFF	ON
1	TD always enabled (TD 422)	TD only enabled during data transission (TD 485)
2	RD always enabled (ECHO ON)	RD disabled during data transmission (ECHO OFF)
3	4-wire mode (4-Wire)	2-wire mode (2-Wire)
4	4-wire mode (4-Wire)	2-wire mode (2-Wire)

3 | Wire the Converter
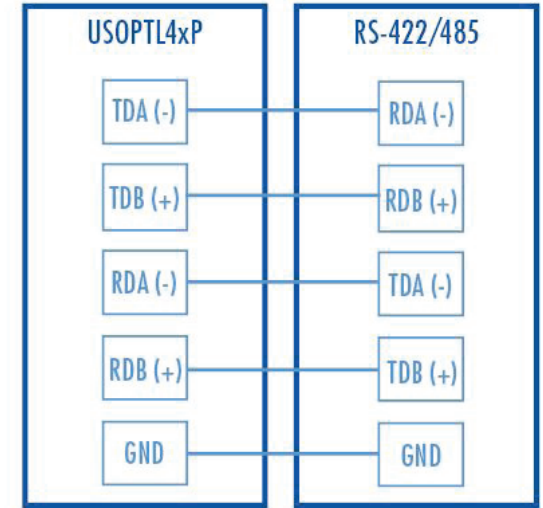
2-Wire RS-485

o   All DIP Switches = ON

2 Wire Set-up

USOPTL4-xP	RS-485
TDA (-)	NEG (-)
TDB (+)	POS (+)
RDA (-)	
RDB (+)	
GND	GND

4-Wire RS-422/485

o   RS-422 = All DIP Switches OFF
o   RS-485 = DIP 1 ON, DIP 2, 4 and 4 OFF

4 Wire Set-up

USOPTL4xP	RS-422/485
TDA (-)	RDA (-)
TDB (+)	RDB (+)
RDA (-)	TDA (-)
RDB (+)	TDB (+)
GND	GND

4 | Loopback Test

Set the device for RS-485 (4-Wire). Loopback the TDA(-) to RDA(-) and TDB(+) to RDB(+). Using Hyper Terminal or similar program, connect to the appropriate COM port. Set the desired baud rate. Ensure that Hyper Terminal local echo is OFF. Transmit data. If the same character string is returned, the test is good.

5 | Check LEDs

When everything is installed and connected the LEDs will blink to let you know that data traffic is passing through the converter.