Oriental motor

CRK Plus Series

Suggested RS485 Converter
* The following RS485 converters are suggested for customer's convenience. However, Oriental Motor is not responsible for the products.

1) USB to **RS485** Converter
USCONVERTS.COM
Part Number: *MWE820A*
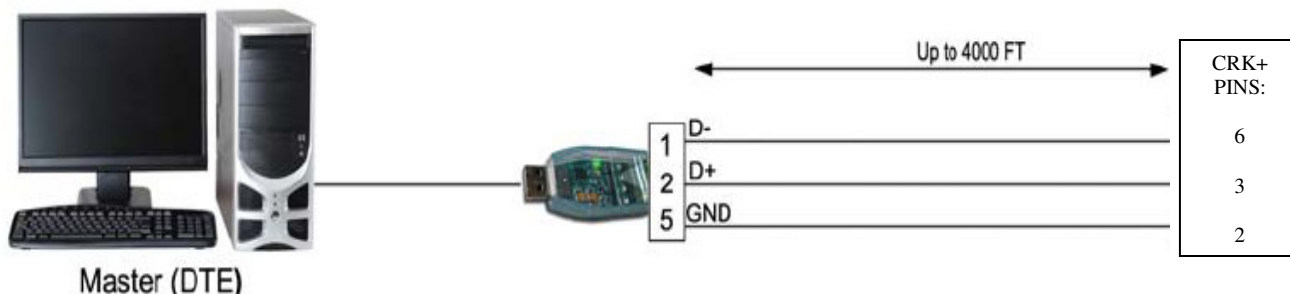

For Purchasing Information, visit
www.usconverters.com

For Technical Information, visit
http://www.usconverters.com/downloads/mwe820a.pdf

Recommended Driver Download Link:
http://www.usconverters.com/index.php?main_page=page&id=15&chapter=0

Below is a connection example using the USB device with the CRK Plus.

2) RS232 to **RS485** Converter
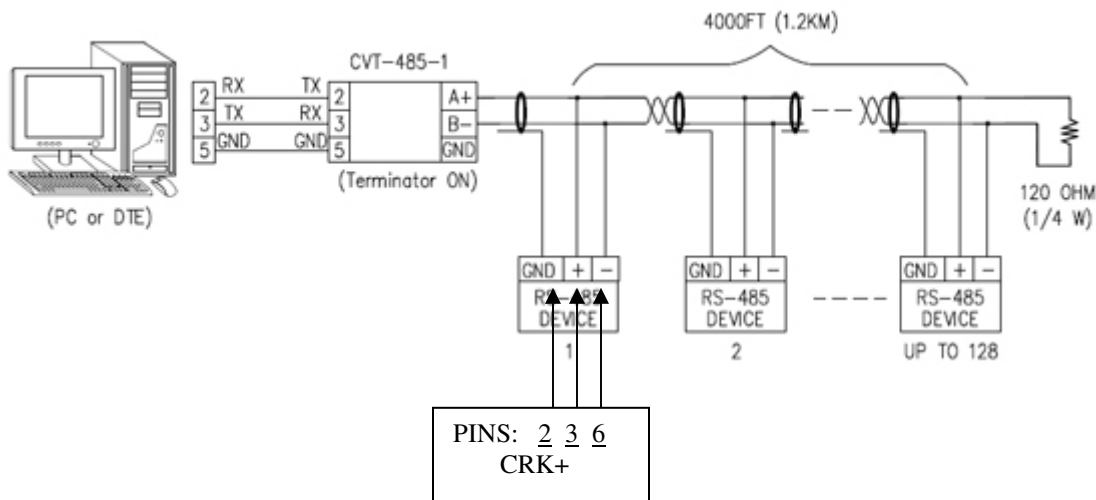***CommFront***
Part Number: *CVT-485-1*

For Purchasing Information, visit
www.commfront.com

For Technical Information, visit
http://www.commfront.com/RS232-RS485-RS422-Serial-Converters/cvt-485-1.pdf

Below Is a General Diagram of how the multi-drop network will look like for the CRK+.

You may want to double check what type of network cable you are using. If you are making your own cable or if you are modifying a cable you may already have, please refer the following technical reference about the cable types.

Technical Reference:

RJ 45 connector is required for CN6 and CN7 of CRK+ driver
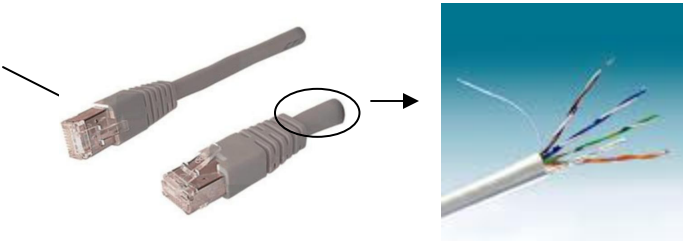
568A Cable End

	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire Color	white/green	green	white/orange	blue	white/blue	orange	white/brown	brown
CRK + driver		GND	T+			T-		

568B Cable End

	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
Wire Color	white/orange	orange	white/green	blue	white/blue	green	white/brown	brown
CRK + driver		GND	T+			T-		

■ Termination resistor

Use a termination resistor for the driver located farthest away (positioned at the end) from the programmable controller (master device).

Turn the termination resistor setting switch (SW3) ON and set the termination resistor for RS-485 communication (120 Ω).

Factory setting   OFF (termination resistor disabled)

Termination resistor setting switch (SW3)

OFF
ON

1 N.C.
2 GND
3 TR+
4 N.C.
5 N.C.
6 TR−
7 N.C.
8 N.C.

1 N.C.
2 GND
3 TR+
4 N.C.
5 N.C.
6 TR−
7 N.C.
8 N.C.

SW3
120 Ω

▽ 0 V*
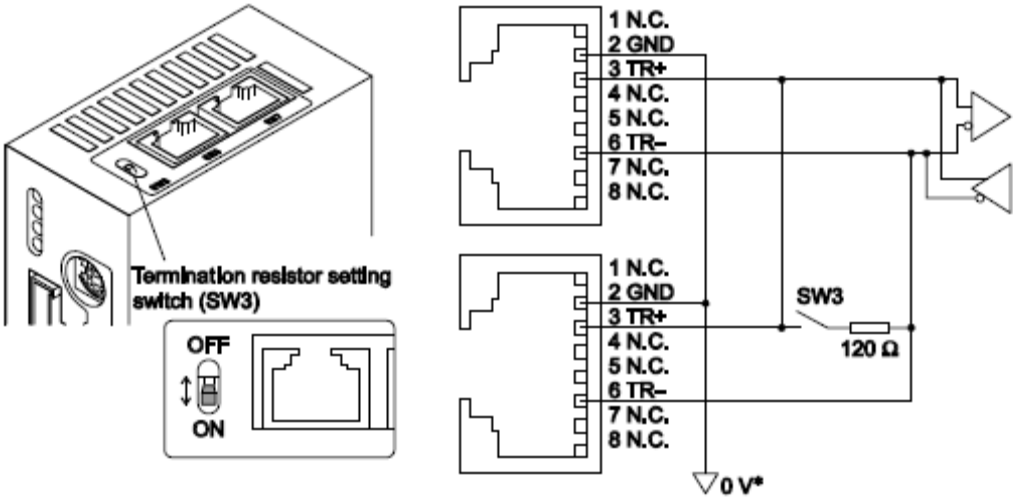
* The GND line is used in common with CN1 (not insulated).