RS-232/RS-485 Port-Powered Converter

Model: MWE485-A

♦ Brief introduction

The MWE485-A can convert a 3 wires (RX,TX,GND) RS-232 serial port signal to a semiduplex RS-485 signal without external power supply.

Main function

- Port powered, no need external power supply;
- •Particular protecting circuit for the serial port, hot-Swappable;
- •Automatically transmit with no delay, no need CTS flow control.

♦ Capability parameters

Supublity paramotors						
serial port powered,no need external power supply						
<10mA						
300~115.2Kbps						
RS-485:<1.2Km(19.2Kbps),RS-232:15m						
128 nodes						
15Kv static and 600W/ms lightning protecting						
36g(with the terminal block)						
87mm×33mm×17mm(with the terminal block)						
-40℃~85℃						

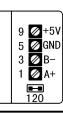
◆ PIN Setting

The RS-232 end is DB9 female, the pin definition is as below:

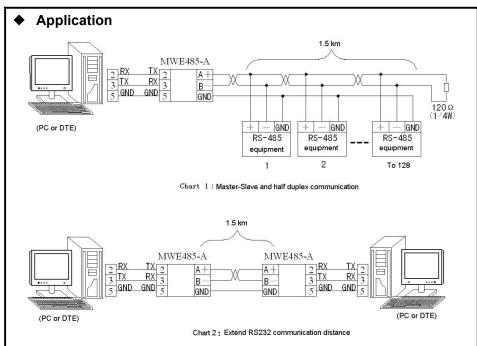
PIN	1	4	6	7	8	2	3	5
Define	short circuit			short c	ircuit	TX	RX	GND

The RS-485 end is DB9 male, the pin definition is as below:

PIN	1	3	5	6、7
Define	A+	В-	GND	Jumper (120Ω)
Specification	485+	485—	GND	120Ω terminal resistance



- ●DO not connection any external power on +5V block, this block is only for measure and testing;
- ullet A 120Ωresistor will be added in between the A+ and B- by plugging on the jumper marked as 120.



Attention

●RS-485 matching resistance

The RS-485 is difference-signal. It is necessary to add a 120Ω matching resistor on the head and end of the communications circuit. When 120 short films(ON), The load ability will reduce when using the matching resistance. We suggest that it is necessary to use it only when the rate is above 19.2 Kbps or the circuitry length is above 200m.

●RS-485 Grounding

It is necessary to connect the GND of the circuitry together, but do not connect it to the earth.

Quality promises

- 1. We can exchange the product in 1 years for the quality problem.
- $2 \varsigma\,$ We guarantee to keep the product in good repair for 5 years.