RS-232/RS-485/422 high speed opto-isolation converter

Model: MWE485-TD

Brief introduction

The MWE485-TD is high speed opto-isolation. It can converter a RS232 serial port signal to two wires high speed semiduplex RS485 or a four wires fullduplex RS422 signal, with 2500V photoelectricity isolation.

♦ Main function

Special industrial Din rail module of Makeway Company;

Opto-isolation of high rate between RS-232 and RS-485/422;

 Intelligent module design, automatically transmit with no delay, no need CTS flow control.

Capability parameter •

Power Supply	External power supply,DC5V/DC9~30V
Working current	<30mA
Baud rate	300~115.2Kbps
Communication	$DC_{495}/DC_{422}(42245Km/0.6Kmz)$
distance	RS-485/ RS – 422 1.5Km(9.6Kbps)
Max node	128 nodes
Isolation protection	15Kv static protecting and 600W/ms lightning protecting
Weight	96g(with the terminal block,no include DIN-Rail)
Dimension	117m×72mm×25mm
Working	-40°C~85°C
temperature	-40 C~65 C

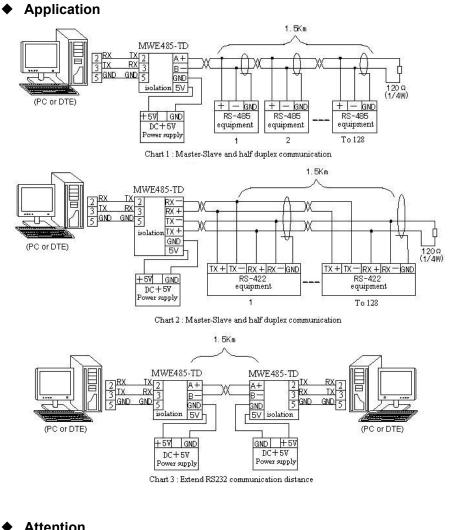
PIN Setting

The RS-232 end is DB9pin, the pin female definition is as below:

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

The RS-485/422 definition is as below:

PIN	1	2	3	4	5	8	9	10
RS-485	A+	B-				DC5V	DC9 \sim	GND2
RS-422	T+	T-	GND1	R+	R-		30V	GND2



Attention

RS-485 matching resistance

The RS-485 is difference-signal. It is necessary to add a 120 Ω 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 19.2Kbps or the circuitry length is above 200m.

Quality promises •

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