

RS – 485/RS – 422 Three sides opto-isolation repeater

Model : MWE485 – YGM

◆ Brief introduction

The MWE485-YGM is three sides opto-isolation repeater. It can convert RS485 serial port signal to RS422 signal and extend the communications distance of the RS485/422 signal.

◆ Main function

- Either Half duplex RS-485 or full duplex RS-422 select;
- Industry level design, excellent import element chosen, all surface adhibit technics.

◆ Capability parameter

Power Supply	External power supply, DC5V/DC9~30V
Signal Isolation	Power supply and two sides signal are isolated between each other
Working current	<20mA
Baud rate	300~115.2Kbps
Communication distance	Extending distance more than 1.5Km(9.6Kbps)
Max. node	128 nodes
Isolation protection	15Kv static protecting and 600W/ms lightning protecting, 2500V photoelectricity isolation
Weight	120g (with the terminal block and DIN-Rail)
Dimension	126mm×72mm×34mm
Working temperature	-40℃~85℃

◆ PIN Setting

The RS-485/422, the pin male definition is as below :

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

◆ Application

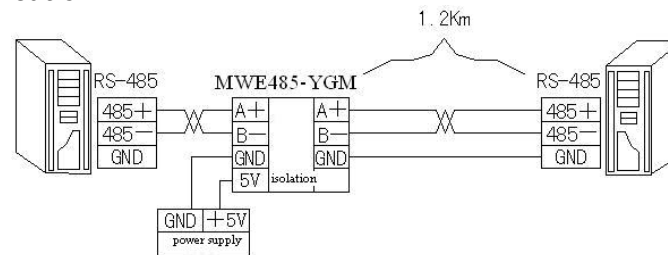


Chart 1 : Extending Half duplex RS485 communication

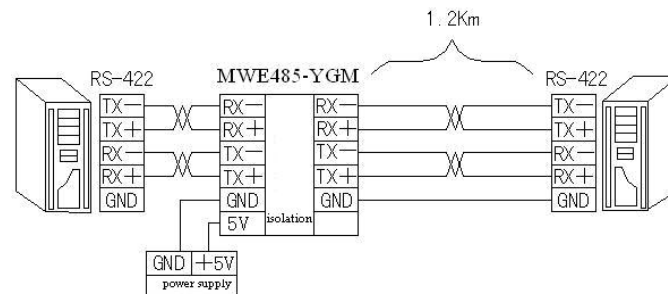


Chart 2 : Extending full duplex RS422 communication

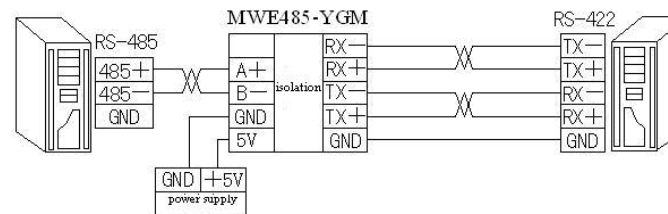


Chart 3 : Converter between half duplex RS485 and full duplex RS422 application

◆ 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 19.2Kbps or the circuitry length is above 200m.

◆ Quality promises

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