RS-485/RS-422 Isolation Repeater

Model:MWE485-YG

◆ Brief introduction

The MWE485-YG can convert the RS-485/RS-422 signal in high rate and with a optical isolation, and extend the RS-485/422 distance.

◆ Main function

- ●Half-duplex RS-485 and full-duplex RS-422 supported;
- ●Extending the signal distance,or convert the RS-485 and RS-422;
- ●Optic-isolation between the two sides signals;

◆ Capability parameters

Power Supply	External power supply,DC5V/DC9～30V
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

RS-485/RS-422 port：

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

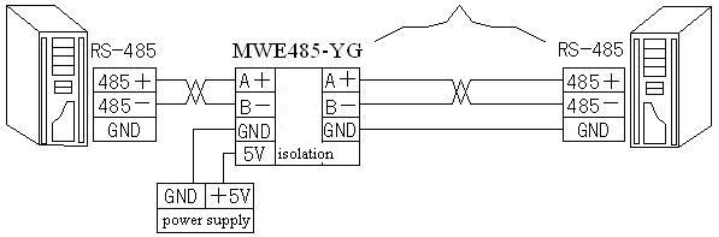


Chart 1 : Extending half duplex RS485 communication

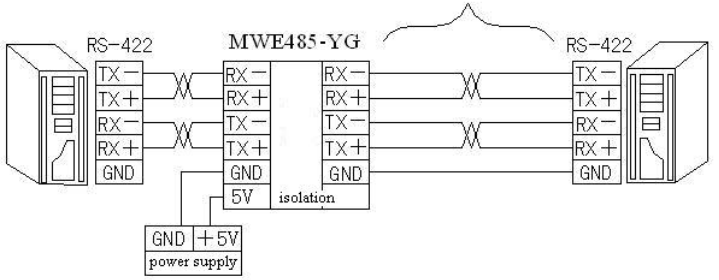


Chart 2 : Extending full duplex RS422 communication

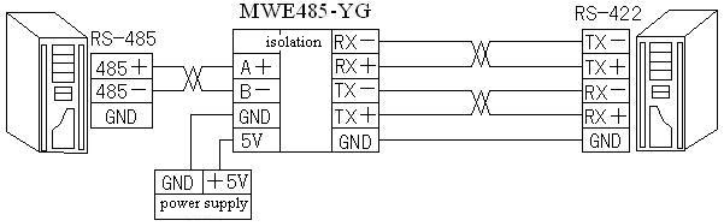


Chart 3 : Coverter between half duplex RS485 and full duplex RS422 application

◆ Notice

●The matching resistance

The RS-485/422 are difference-signal. It is necessary to add a 120Ω matching resistor on the head and end of the communications circuit. 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.

●Grounding

It is necessary to to connect the GND of the circuit 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.We guarantee to keep the product in good repair for 5 years.