RS-232/RS-485/RS-422 Converters   MW1040-I-R

◆ Industrial Isolation RS-232/485/422 Converter and Repeater

➢ Features

- Support DIN-rail, Terminal block connection
- 12～36VDC Power input(3 bit terminal block)
- Adopt itself adapt interface technique, no use for setup switch
- Adopt ADDC, auto distinguish and data transfer direction.
- Can use for RS485/422 repeater and RS232 to RS485/422 converter, but just use one function at same time
- Supply 3000V optic-electrical isolation, 1500W surge protection
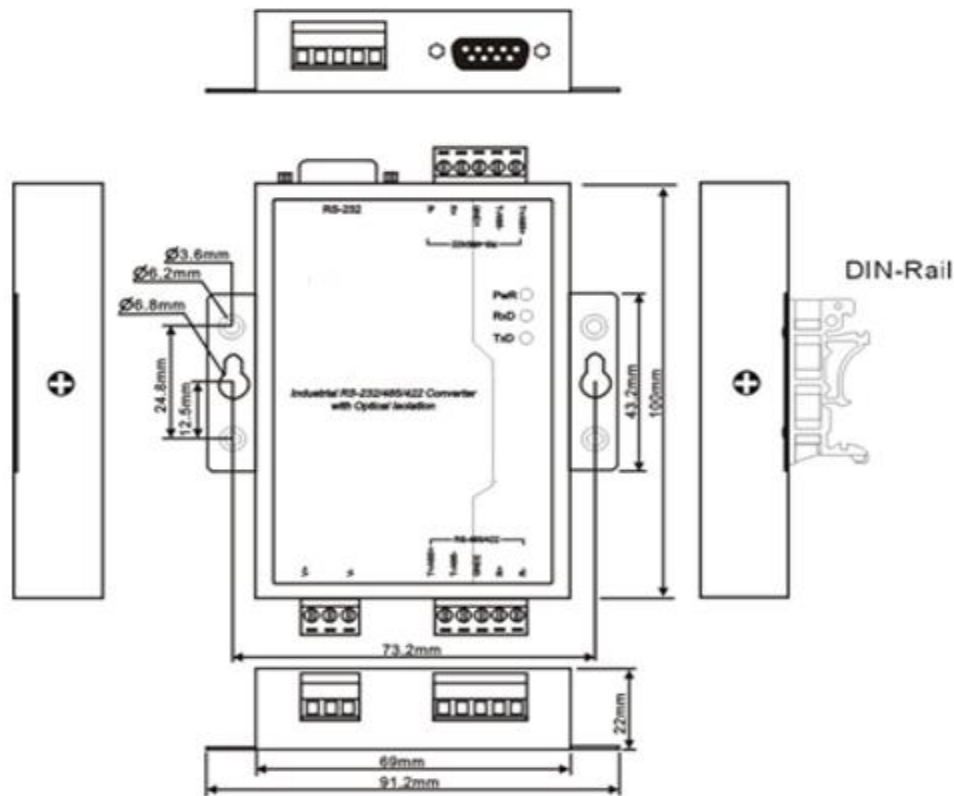- Reach up to 3000m at the rate of 9600bps

➢ Introduction

MW1040-I-R Can use for RS485/422 repeater and RS232 to RS485/422 converter, but just use one function at same time. The product must have 12-36VDC power input, optic- electrical isolation more than 3KV. Have small volume, 3000m transfer distance, high rate, steadily performance and so on. It is abroad used in industry control system, It is a best performance and price interface converter and Repeater.

➢ Specification

Technology	
Standards	EIA RS-232C, RS-485, RS422 standard
RS-232 signal	TX, RX, GND
RS-422 signal	T+, T-, R+, R-, GND
RS-485 signal	D+, D-, GND
Working mode	Asynchronism, point to point or multi point, 2 wire half-duplex,4 wire full duplex
Baud rate	300~115200bps, auto test serial signal rate detect signal speed automatically, zero delay time
Flow control	Data direction auto-turnaround, no flow control is required
Transfer distance	RS-485/422 side:3Km(9600bps),RS-232 side: no less than 5m
Max number of drops	128 nodes
Optical isolation	3000V
Port protect	1500W surge protection,15KV ESD protection
Connector	RS-232 side DB9 female, RS-485/422 side 5 bit terminal block,Isolation mode, adopt +12V~36VDC input power, provide 3000V isolation
Environment	
Operating temperature	-10℃ to 60℃
Storage temperature	-40℃ to 85℃
Humidity	5% to 95%(no condensation)
Appearance	
Dimensions	100.0mm×69.0mm×22.0mm

Material	Iron(shell)
Color	White
Weight	200g
Warranty	5 years
Approvals	FCC, CE, RoHS approvals

➢ Dimension

➢ Ordering Information

➢ Applications
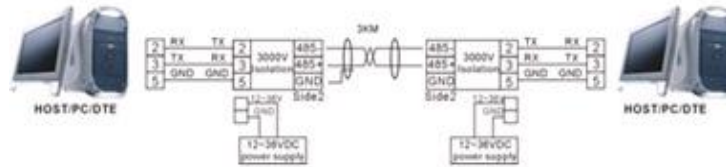
1. RS232 to RS485 mode option:

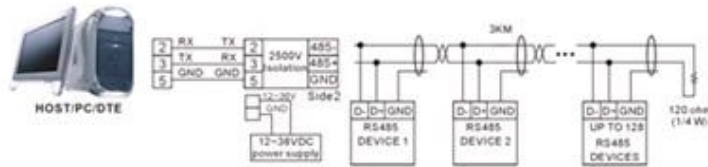**Figure 1: Extending the RS232 data distance in RS485 mode**

Figure 2: Master/Slave multi-drop configuration in RS485 mode
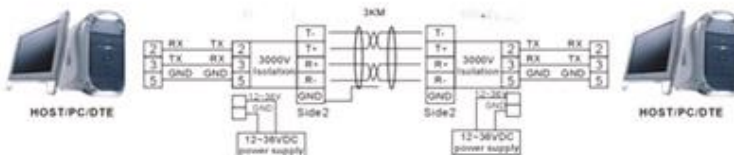
2. RS232 to RS422 mode option:

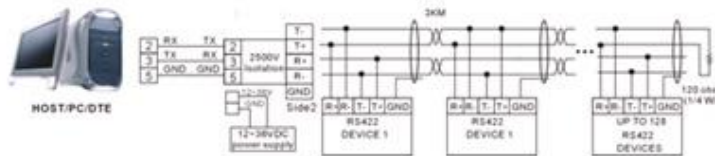**Figure 3: Extending the RS232 data distance in RS422 mode**

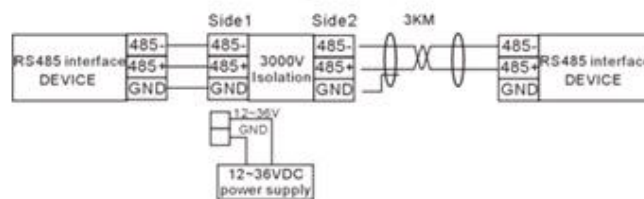**Figure 4: Master/Slave multi-drop configuration in RS422 mode**

3. Use for repeater:

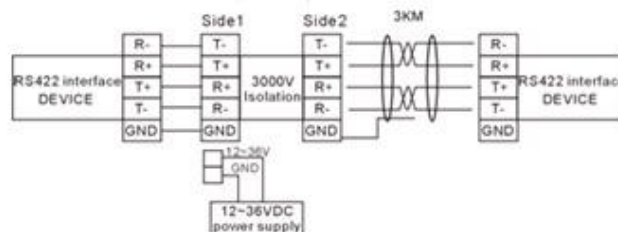**Figure 5: configuration in RS485 repeater mode**

Figure 6: configuration in RS422 repeater mode

➢ Packing List

- MW1040-I-R ×1
- Separate terminal block(DB9F to 5 bit) ×1
- User manual ×1