



DT-9016

Industrial grade RS232 to RS485

Converter manual



Main characteristics

- » The RS485 data to provide data collision protection control DCPC function
- » The baud rate adaptive
- » LED indicates power and signal state
- » Up to 32 nodes
- » The RS232 port protection: 15KV ESD
- » The RS485 with HUB function
- » Port of the RS485 surge protection, lightning protection and 600W protection
- » Two-way conversion of RS232 and RS485
- » The two power input function
- » 9-30V DC

One introduction

DT-9016 is a general RS232 to RS485 converter, interface converter designed for RS232 transmission distance is extended, with a number of independent innovation technology DTEC. Includes built-in data collision protection control; power supply and signal lights; Transient Voltage Suppressors of TVS protection; in order to adapt to the characteristics of RS485 bus wiring, in the RS485 interface, the expansion of the three group of connection mode, the bus from multiple directions can be good contact, avoid winding general line. The main physical interface converter and data line by line copper material, can guarantee the stability of the communication, and the use of oxidation of aluminum shell, can shield the outside interference and has good heat dissipation.

Two specifications

1, communication:

RS232 signal TX RX GND (DTR: DSR CTS DCD can be customized) ____DB9 hole

RS485: 1 groups of A B signal, 2 groups of A, B 3 groups of A B

Support: support for each number of terminals connected to 10 RS485; the theoretical value of three nodes, 32 nodes group

Transmission distance: the theoretical value of 1.2km

RS485 data collision protection control: DCPC

Working temperature: -26-55 degrees

Storage temperature: 26 degrees

Operating humidity: 5-95%RH

Power supply: 9-30 VDC 300Ma

Over current protection: when short circuit when two signals, can play a protective role, but not long-term short circuit

Power consumption: 180Ma@9V

Size (W * D * H): 102*64*25

Shell: sandblasting galvanized, aluminum profiles

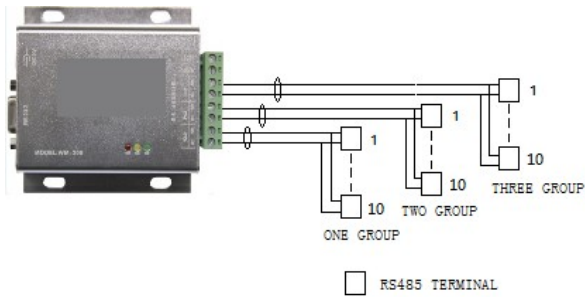
Weight: 250g

Certification: CE FCC IC

Warranty period: 1 year

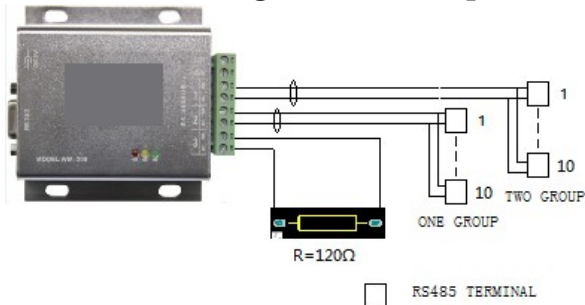
Three network applications

1 three groups of RS485 bus connecting the terminal connection



Note: a RS485 connection terminal, make the best of the average load sharing; secondly, using the RS485 direct connection, namely the T/R+ terminal of the T/R+ converter, the converter connected to T/R- terminal of T/R-.

2 electrical wiring terminal adapter



Note: the need to connect the adapter terminal resistor, must choose the resistance according to the impedance of the line size, in order to unify, basically 120 ohm resistance, Power is greater than or equal to 1/4W. Secondly, if the RS485 terminal, RS485 terminal box can

also be used in the company, in order to better achieve the connection bus hand in hand.

Four, the data interface lead sheet

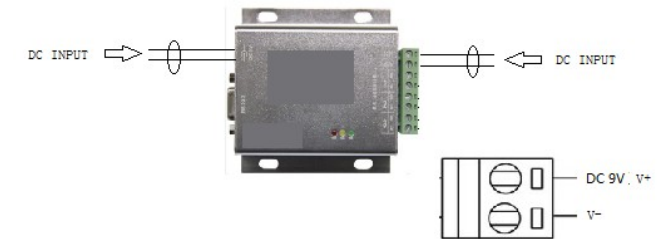
1 the RS232 signal interface pins

DB9	Definition
1	DCD
2	RXD
3	TXD
4	DTR
5	SG
6	DSR
7	RTS
8	CTS
9	RI

2 with screw terminals pinout

Terminal	Identification	Definition
1	1 T/R+	1st bus A
2	1 T/R-	2st bus B
3	2 T/R+	Second bus A
4	2 T/R-	Second bus B
5	3 T/R+	Third bus A
6	3 T/R-	Third bus B
7	GND	GND
8	VDC	DC IN/OUT

Five power input connection



Six the product parts list

index	product name	unit	Number
1	DT-9016	pic	1
2	cable	pic	1
3	DC Adapter9V	pic	1
4	manual	pic	1

