RS232 TO RS422/485 Bi-Directional Converter

ITEM NO.:   RS002, RS002I

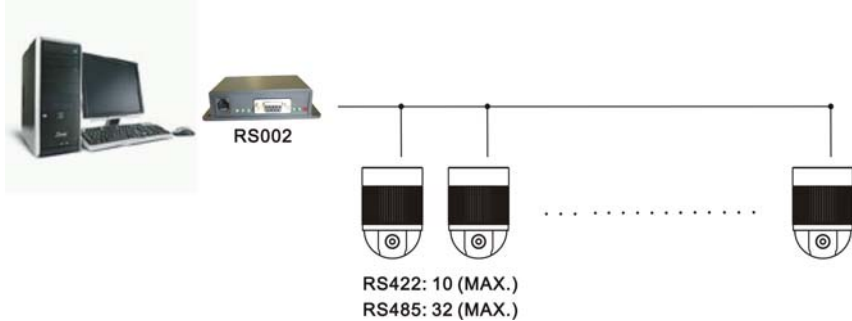### RS002   RS232 to RS485/RS422 Bi-Directional Converter
Features:

- RS232 Input option: DB9 or RJ11.
- RS485/RS422 output option: terminal or RJ11.
- RS232 to RS485 or RS232 to RS422 conversion.
- Four full Duplex wires; two half duplex wires.
- Switch setting for full duplex or half duplex operation.
- Auto Baud Rate Sensing.
- Supports transfer speeds of up to 115.2Kbps.
- Extends up to 1200 meters (under 100Kbps).
- Support up to 32 units to be set in RS-485 multi drop installations.
- LEDS indications for power and signal status monitoring.
- Over current protection when 2 signals are shortened together at the RS422/485 end.
- Surge Protection 16KV ESD.
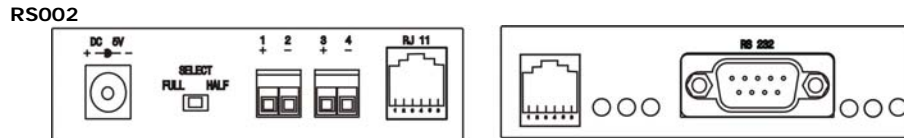- Built in termination resistors.
- Power supply included.

RS002I RS232 to RS485/RS422 Bi-Directional Converter-Isolation

- Identical same as RS002, but without RJ11 output and built in 3KV isolation protection.
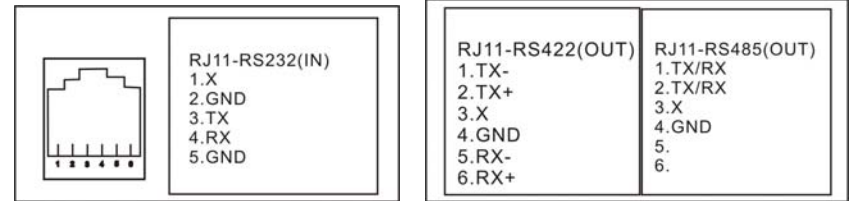
Installation View:

RS002

RS422: 10 (MAX.)
RS485: 32 (MAX.)

Panel View:

RS002

RS002I

duplex / st	1	2	3	4
FULL	T+	T-	R+	R-
HALF	T/R+	T/R-	X	X

RS002 RJ11/12

RJ11-RS232(IN)
1.X
2.GND
3.TX
4.RX
5.GND

RJ11-RS422(OUT)
1.TX-
2.TX+
3.X
4.GND
5.RX-
6.RX+

RJ11-RS485(OUT)
1.TX/RX
2.TX/RX
3.X
4.GND
5.
6.

RS232 PIN Assignment		
PIN 1	DCD	Data Carrier Detect
PIN 2	RXD	Receive Data
PIN 3	TXD	Transmit Data
PIN 4	DTR	Data Terminal Ready
PIN 5	GND	Chassis Ground
PIN 6	DSR	Data Set Ready
PIN 7	RTS	Request to Send
PIN 8	CTS	Clear to Send
PIN 9	RI	Ring Indicator

RS232 DB9 (EIA/TIA 574)
(view into male end)

Specification:

ITEM NO.	RS002	RS002I
RS232 Input	RJ11/12 Connector or DB9.	DB9
RS485/422 Output	Terminal or RJ11/12 Connector	Terminal
Signal Output	2-wire half-duplex RS485 or 4-wire full-duplex RS485/RS422	
LEDS	Power(RED), TX-485(GRN), TX-RS232(GRN),RX-RS232(GRN),DTS(GRN),RTS(GRN)	Power(RED), TX-485/422(GRN), RX-1422(GRN), TX-RS232(GRN), RX-RS232(RED),DTS(GRN),RTS(GRN)
Transmission Range	1200 meter (4000 ft)	
Data Rate	Up to 115.2Kbps	
Operating Temperature	0-65℃	
Operation Moisture	10-90%	
Power Consumption	DC5V 300mA	
Power Supply	DC12V 300mA Regulated	
DIMENSIONS W x H x D mm	108x74x27	