SC-232-C

RS232 to RS485/RS422 Port-powered Converter

Product Overview:

The SC-232-C is a port-powered serial converter that converts TxD and RxD RS232 to RS485/422 signals. Additional features include; automatic Send Data Control (SDC) which automatically enables the RS485 driver when data is present on the RS232 side.

- Plug and play, easy to install
- Port-powered, no external power supply is required
- Supports RS232 to RS485 or RS232 to RS422 conversion
- Low power consumption
- Automatic Send Data Control (SDC), auto distinguishes and senses direction of data transfer

Environmental:

Operating temperature: -40°C ~ +85°C

Relative humidity: 5% to 95%

Power:

Input power: No power supply needed, powered from TXD, RTS, DTR signal in RS232 port

Consumption: less than 10mA

Dimensions:

L*W*H 87mm × 33mm × 17mm (with the terminal block)

Housing: Plastic

Weight: 36g (with the terminal block)

Communication

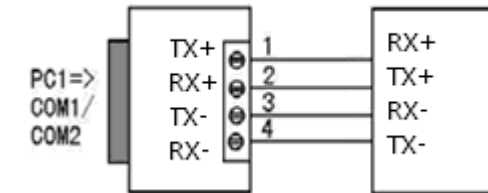| Standard	Accord EIA RS232, RS485, RS422 standard
RS232 signal	TX, RX, GND
RS485 signal	A+, B-, GND
RS422 signal	TX+,RX+,TX-,RX-,GND
Operating format	A synchronism, point to point or multi point, 2 wire half-duplex, 4 line duplex
Direction	Automatic send data control, auto distinguish and sense direction data transfer
Band rate	300-115,200 bps, auto sense serial signal rate
Loading	can order 128 point
Transmission	RS485 side 1500M(9600bps)
Port protection	600W surge protection, 15KV static protection

PIN Setting

RS485					RS232	
Terminal	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	DB9 female	RS232
Define	A+		B-		GND	Pin 2	RXD
RS485	485+		485-		GND	Pin 3	TXD
RS422	TX+	RX+	TX-	RX-	GND	Pin 5	GND

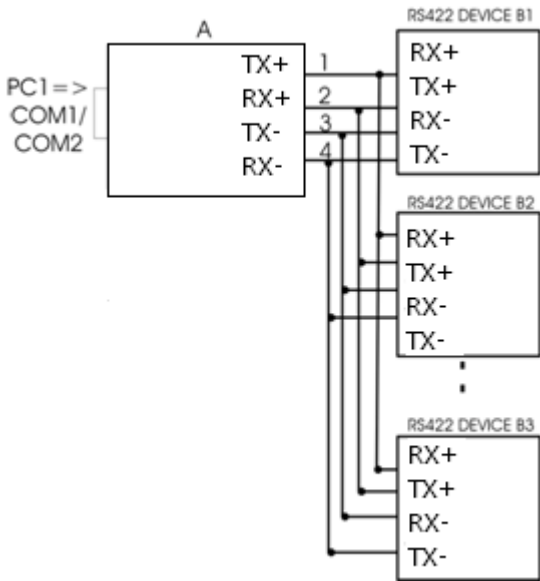The SC-232-C interface converter supports following communication modes:
1. Point to point/4 wire full duplex
2. Point to multi-point/4 wire full duplex
3. Point to point/dual-line half duplex
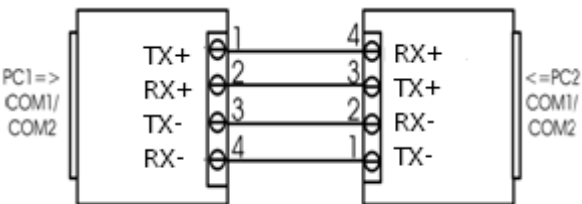4. Point to multi-point/ dual-line half duplex

RS232 to RS422 conversion

RS422 point to point/4 wire full duplex communication

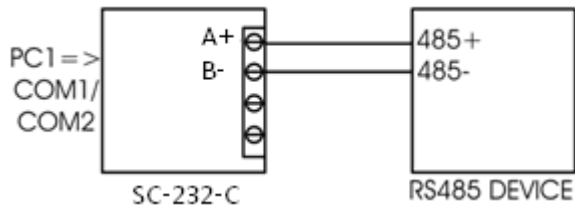RS422 point to multi-point/4 wire full duplex

RS485 point to multi- point /dual-line half duplex

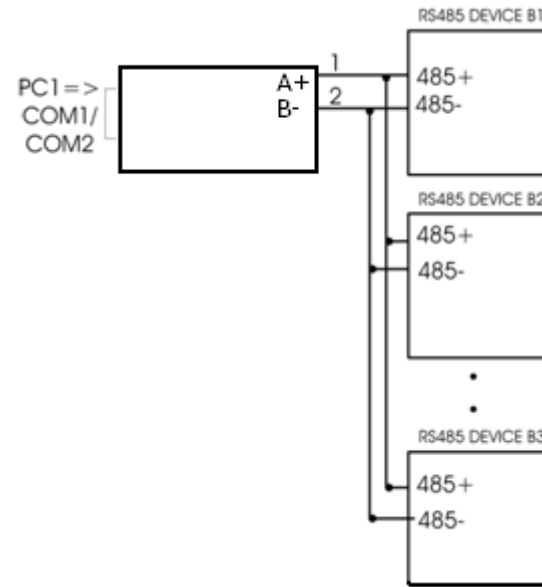**Full duplex communication connection between SC-232-C interface converters**

Half duplex communication connection between SC-232-C interface converters

RS232 to RS485 conversion

RS485 point to point/ dual-line half duplex