

SC-232-A



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RS-232/RS-485 Port-Powered Converter

◆ **Product Details**

The SC-232-A converts TX and RX RS232 lines to RS485 signals. The SC-232-A is port powered and features automatic Send Data Control. SDC automatically enables the RS485 driver when data is present on the RS232 side. Control of the driver is automatic at rates up to 115.2 kbps.

Specifications

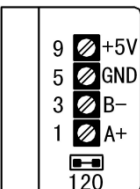
Power Supply	Powered from RS232 side, no power supply needed.
Working Current	<10mA
Baud rate	300 ~ 115.2Kbps
Distance	RS-485:<1.2Km(19.2Kbps),RS-232:15m
Maximum nodes	128 nodes
Isolation protection	15Kv static and 600W/ms lightning protection
Weight	36g(with terminal block)
Dimensions	87mm×33mm×17mm(with the terminal block)
Working temperature	-40°C~85°C

◆ **PIN Settings:** The RS232 end is DB9 female. The pin definitions are below :

PIN	1	4	6	7	8	2	3	5
Define	short circuit		short circuit			TX	RX	GND

The RS485 end is DB9 male. The pin definitions are below :

PIN	1	3	5	6&7
Define	A+	B-	GND	Jumper (120Ω)
Specification	485+	485-	GND	120Ω terminal resistance



Do not connect any external power to the +5V block, this block is only for measurements and testing ;
The 120Ω resistor is activated between the A+ and B- pins by connecting the 120 jumper.

◆ **Applications**

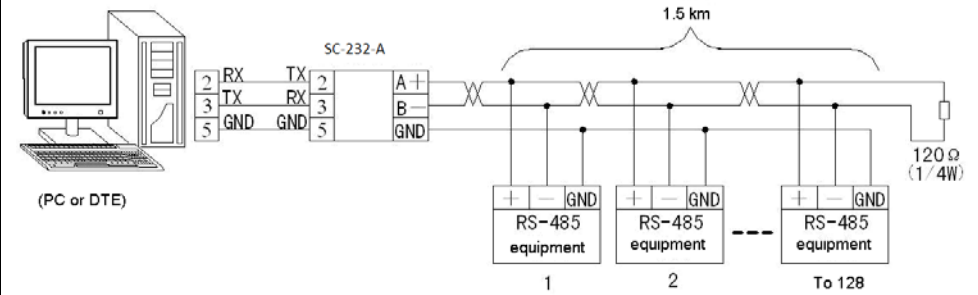


Chart 1 : Master-Slave and half duplex communication

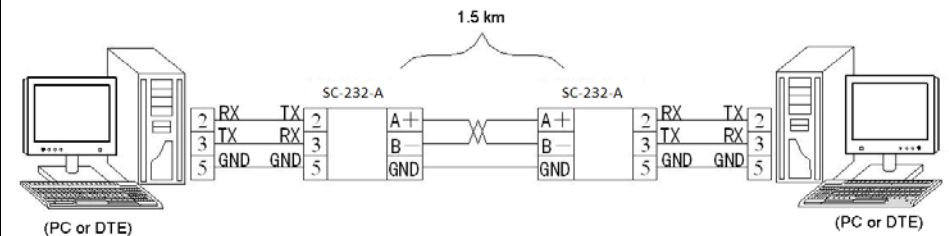


Chart 2 : Extend RS232 communication distance

◆ **Notices**

• Matching the resistance in RS485:

When using the 120Ω jumper, it is required to have a similar 120Ω resistor on the other end. It is only required to use this feature if the data rate is above 19.2Kbps or the cable length is over 200m.

• RS485 Grounding

The GND circuits do need to be connected together, but do not link them to earth ground.