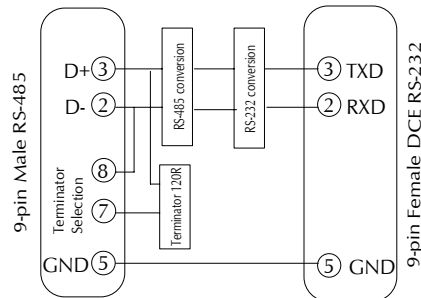


Model: Rdc485ic-sp Self-Powered RS-232 to 2-wire RS-485 Converter

The rdc485ic-sp provides excellent versatility in a compact package. Requiring no AC power or batteries for operation, the converter supports asynchronous RS-232 data rate to 115200 bps over one unconditioned twisted pair in half duplex mode.

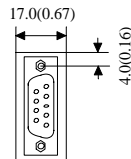
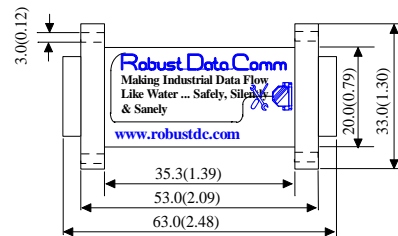
The unit is equipped with female DB9 connector for RS-232 and male DB9 connector for RS-485. You can choose either a terminal block or an RJ-45 socket adapter for the twisted pair connection.



Mechanical/Environment

| | |
|--------------------|--|
| Operating Range: | 0C to 65C (Ambient Temperature) |
| Storage Range: | -40C to +100C |
| Relative Humidity: | 10 to 90% RH, non-condensing |
| Comm Ports: | 9-pin, male/female, gold pins rated 500 cycles |
| Case Material: | polymide, fungus/termite resistant self-extinguishing |
| Weight: | approx 20g |
| Dimensions: | 63L x 33W x 17H (mm) |

Dimensions in mm (and inches)



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Specifications

| | |
|--------------------|---|
| Transmission Mode: | Asynchronous, half duplex point-to-point 2-wire |
| Signal Type: | RS-232/RS-485 |
| Data Rate: | Up to 115200bps |
| Character Setting: | Transparent, no config required |
| Power Requirement: | Port-powered from RS-232 |
| Distance: | up to 4000 feet (1200m) on CAT 5 solid cable |

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Installation

Connection to the RS-232 Interface

For your convenience, the converter comes with a female DB9 connector on the RS-232 side.

The RS-232 interface is factory configured as DCE. It connects directly to DTE such as a terminal or PC. If you must use a cable to connect the DCE to your DTE device, use a straight through cable no longer than 50 feet (15.2m)

Connection to the RS-485 Interface

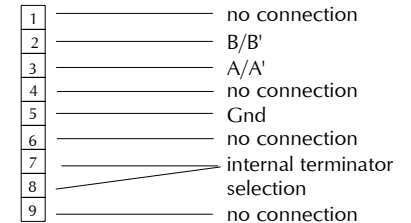
To function properly, the converter must have one twisted pair of metallic wire. This pair must be unconditioned metallic wire, solid conductor, unshielded twisted pair, between 19 and 26 AWG (the higher numbered gauges may limit distance somewhat). We recommend using CAT 5 solid 24AWG cable.

For your convenience, the converter comes with DB9 male connector (factory default configuration), RJ-45 and terminal block (using extension adapter) on the RS-485 side.

Note: For communicate properly at the RS-485 side, we strongly recommend to connect the ground together as the signal loop.

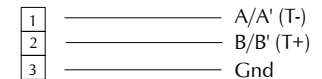
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DB9 Male Connector configuration



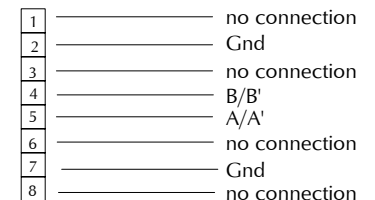
Note: Short Pin7 & Pin8, active the internal terminator (120 Ohm)

Terminal Block configuration



Note: Jumper 1 is for the internal terminator (120 Ohm) selection.

RJ-45 Socket configuration



Note: Jumper 1 is for the internal terminator (120 Ohm) selection.

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