RS232-RS485 Converter W/PWR LED
(98-9003-04)

The Accu-Time RS232-RS485 Converter, product number 98-9003-04, is a network peripheral device that permits data communication to be attached between the processor of an RS485 driven Accu-Time Data Collection Terminal (DCT) and an RS232 communication card of a host processor.

Conforming to the Electronic Industries Association (EIA) specifications for data communications, the Accu-Time RS232-RS485 peripheral converts a two line RS232 serial binary data interchange message to an RS485 four line carrier using balanced line voltages for noise reduction and long distance capability. The Accu-Time RS232-RS485 converter can receive and transmit data communication messages at standard baud rates up to 19.2kbps (kilobits per second). Housed in a durable black anodized aluminum enclosure, the Accu-Time RS232-RS485 converter includes an easy to read information label that designates input and output termination points. Two eight- (8) position RJ45 phone jack connectors access the Host and Network/Terminal interfaces. The RS232-RS485 circuitry is powered by an external direct current (DC) 12-volt power source which activates a red LED (PWR ON) when in use.

Internally, the dual RS485 transceivers are balanced to facilitate optimum capacitive and resistive line loads. Up to thirty-two (32) Accu-Time DCTs can be accommodated on a single communication link. Transzorb surge protectors clamp line voltage spikes and transient noise.

Accu-Time's RS232-RS485 Converter terminal connections are as follows:

RS232 HOST INTERFACE	NETWORK/TERMINAL INTERFACE
	(All connections are referenced to the Accu-Time DCT)
1-Earth ground	1-Earth ground
2-Host transmit	2-Network data in-
3-Host receive	3-Network data out +
4-Host request to send	4-Network data out -
5-Host clear to send	5-Network data in +
6-Power ground	6-Power ground
7- (+) Voltage DC	7- (+) Voltage DC
8-Power ground	8-Power ground

GENERAL SPECIFICATIONS

Physical-
Dimensions: 1.25" H X 3.20" W X 2.70" D
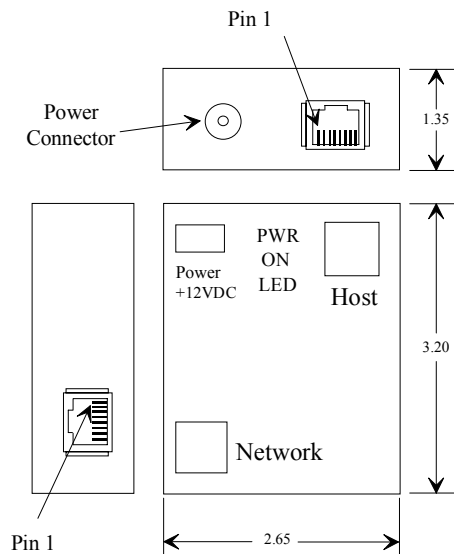   (3.18cm H x 8.13cm W x 6.86cm D)
Weight: 0.28 Lbs. (0.13kg)

Environmental-
Operating Temp: 32°-110°F (0°-45°C)
Relative Humidity: 20-90% Non-condensing

Operating Parameters-
Power: Draws power from 12VDC Power Pack
Power Consumption: .073 amps

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