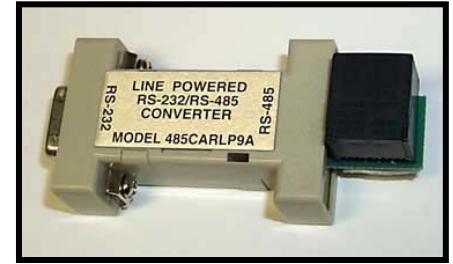# *Carrier HVAC Converter* CE
Includes Send Data Control
Model 485CARLP9A

The Model 485CARLP9A is an RS-232 to RS-485 converter that allows you to connect your laptop PC to Carrier HVAC equipment.

The 485CARLP9A is a port-powered, half-duplex RS-232 to RS-485 converter with send data control. The unit converts TD and RD RS-232 lines to balanced RS-485 signals and supports three-wire (Data A, B, and Signal Ground reference) RS-485 communications only. The converter is powered from the RS-232 handshake lines, RTS, CTS and DTR, DSR, CD. The handshake lines are looped back on each other and can be in either state. No handshake change is necessary so no software is required to control the lines. The RS-485 driver is enabled with each bit of data. The RS-485 receiver is disabled when the driver is enabled and is enabled when the driver is disabled. This prevents data from being echoed back into the RS-232 device. The RS-232 side has a DB-9 female connector. The RS-485 side has a six-position RJ11 connector.

NOTE: This converter is not optically isolated.

Connections

Regardless of the system, the 485CARLP9A must be connected with the proper polarity (See Table 1). With no data being sent and the driver enabled, the RS-232 line should be negative and the Data(A) should be negative with respect to Data(B).

Proper operation of any RS-485 system requires the presence of a signal return path between the signal grounds of the equipment at each end of an interconnection. This circuit reference may be established by a third conductor connecting the common leads of devices, or it may be provided by connections in each equipment to an earth reference. When the circuit reference is provided by a third conductor, the connection between the signal grounds and the third conductor should contain some resistance (e.g. 100 ohms) to limit circulating currents when other ground connections are provided for safety.
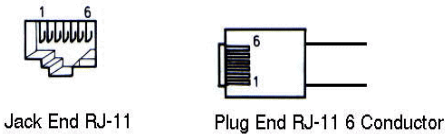
Modular Connector Pin Assignment

Jack End RJ-11   Plug End RJ-11 6 Conductor

Table 1: 485CARLP9A Pin-Outs

Signal	RJ11 Pin #
Data A (-)	2
Data B (+)	5
Signal Ground	4

DECLARATION OF CONFORMITY

Manufacturer's Name:	B&B Electronics Manufacturing Company
Manufacturer's Address:	P.O. Box 1040
	707 Dayton Road
	Ottawa, IL 61350 USA
Model Number:	485CARLP9A
Description:	RS-232 to Rs-485 Data Converter with
	Send Data Control, Port-powered, DB9 to RJ45
Type:	Light industrial ITE equipment
Application of Council	
Directive:	89/336/EEC
Standards:	EN 50082-1 (IEC 801-2, IEC 801-3, IEC 801-4)
	EN 50081-1 (EN 55022, IEC 1000-4-2)
	EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)
	ENV 50204
	EN 55024

Michael J. Fahrion, Director of Engineering
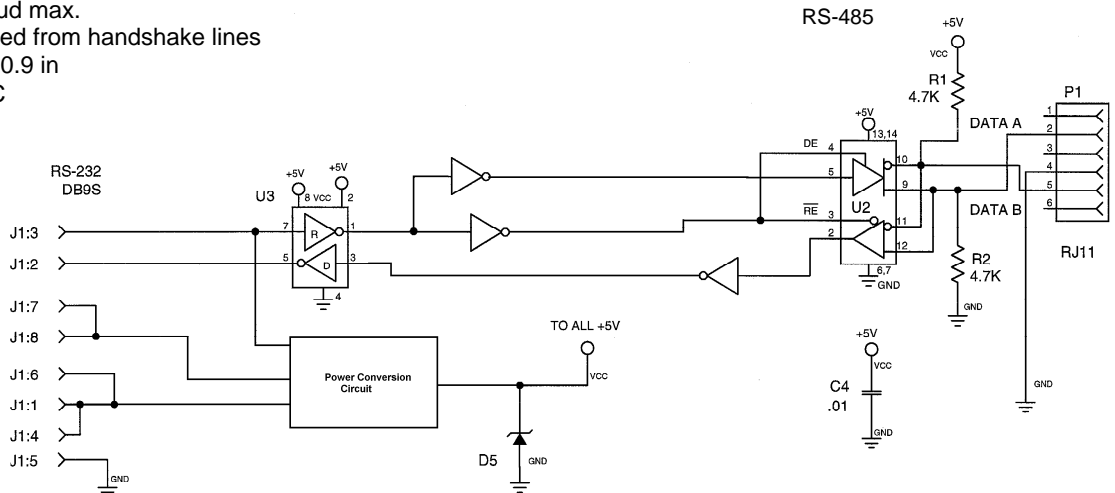
CE

Specifications

Communication:	Two-wire with Signal Ground reference
Data Rate:	115.2K Baud max.
Power:	Port-powered from handshake lines
Dimensions:	3.0 x 1.3 x 0.9 in
Temperature Range:	0°C to 70°C

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