**GENERAL FEATURES:**
- Plug-and-Play (hot-pluggable)
- Slim built-in terminal block design
- Rugged industrial design
- Data direction auto-turnaround - no flow control necessary
- Port powered - no external power needed
- Built-in surge and static protection
- 5 year manufacturer’s warranty
- RoHS, CE, and FCC certified

**DESCRIPTION:**
The SerialComm CON-485-PI9 is a compact industrial bi-directional port powered RS-232 to RS-485 converter which converts a full-duplex RS-232C port to a half-duplex two-wire balanced RS-485 port. It has a compact design for space restricted applications. A built-in data direction auto-turnaround feature automatically enables the RS-485 driver when data is present from the RS-232 port, eliminating the need for software drivers, and making the device fully plug-and-play. The CON-485-PI9 has a db-9 female connector on the RS-232 serial port and 3 position terminal block on the RS-485 port. The terminal block unplugs for convenience. The unit is enclosed in a rugged ABS housing, and is powered from the RS-232 data lines; no external power is required.

**CERTIFICATIONS:**

**TROUBLESHOOTING INSTRUCTIONS:**
Using two CON-485-PI9 units:
1. Check that all connections comply with the connection diagrams.
2. Perform a loop back test:
   a) Connect the two RS-485 ports.
   b) Connect the two RS-232 ports to two PC RS-232 ports.
   c) Running hyper terminal programs on both PCs, send ASCII characters to the CON-485-PI9 converter from one PC port, and check that the characters are received at the 2nd PC port. Repeat the test in the opposite direction. This tests that the transmit and receive functions of both CON-485-PI9 units are working properly.

<table>
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<th>DC</th>
<th>DTR</th>
<th>DSR</th>
<th>RTS</th>
<th>CTS</th>
<th>TX</th>
<th>RX</th>
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<td>RX</td>
<td>GND</td>
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</tbody>
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APPLICATIONS:

FIGURE 1: EXTENDING RS-232 DATA DISTANCE

FIGURE 2: MASTER/SLAVE MULTIPLE DROP CONFIGURATION