CON-422-PE25
RS-232 To RS-422 Converter – 25 Pin

GENERAL FEATURES:
• Plug-and-Play (hot-pluggable)
• Data direction auto-turnaround - no flow control necessary
• Port powered - no external power needed
• Built-in surge and static protection
• 5-year replacement manufacturer’s warranty
• CE, FCC, RoHS and REACH certified

DESCRIPTION:
The SerialComm CON-422-PE25 is a bi-directional port powered RS-232 to RS-422 converter which converts a full-duplex RS-232 port to a full-duplex four-wire RS-422 port. A built-in data direction auto-turnaround feature automatically enables the RS-422 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-422-PE25 has a DB25 female connector on the RS-232 serial port, and DB25 male connector on the RS-422 port. 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 one CON-422-PE25 unit:
1. Check that all connections comply with the connection diagrams.
2. Perform a loop back test on one unit:
   a) Connect the TX+ to RX+ and TX- to RX- on the RS-422 port.
   b) Connect the RS-232 port to the PC RS-232 port.
   c) Running a hyper terminal program on the PC, send ASCII characters to the CON-422-PE25 converter from one PC port, and check that the characters are received at the same PC port. This tests that the transmit and receive functions of the CON-422-PE25 unit is working properly.

Using two CON-422-PE25 units:
1. Check that all connections comply with the connection diagrams.
2. Perform a loop back test on two units:
   a) Connect the two RS-422 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-422-PE25 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-422-PE25 units are working properly.

SPECIFICATIONS:

COMMUNICATION
STANDARDS:
- EIA/TIA RS-232C Standard and RS-422 Standard
BAUD RATES:
- From 300 bps to 115,200 bps
CONNECTOR TYPES:
- RS-232 Side: DB25 Female and RS-422 Side: DB25 Male
DISTANCE:
- RS-232 Side: 16 ft (5m) and RS-422 Side: up to 4000 ft (1.2km)
MAX # OF CONNECTIONS:
- 32 Connection Drops

ELECTRICAL
POWER SOURCE:
- Port Powered From RS-232 Data Lines
CURRENT CONSUMPTION:
- Less Than 10 mA
STATIC PROTECTION:
- 15KV Electric Static Discharge (ESD) Protection
SURGE PROTECTION:
- 600W Surge Protection

MECHANICAL
HOUSING:
- Rugged ABS
WEIGHT:
- 1.3oz (38 grams)
DIMENSIONS:
- 2.41” X 2.19” X 0.67” (61.0 mm X 55.6 mm X 16.9 mm)

ENVIRONMENTAL
OPERATING TEMP.: -4° F to 140° F (-20°C to 60° C)
STORAGE TEMP.: -40° F to 185° F (-40°C to 85° C)
OPERATING HUMIDITY: 5% To 95% - No Condensation

QUALITY
PRODUCT SAFETY:
- CE, FCC, RoHS and REACH Third-party Certified
QUALITY MANAGEMENT:
- Manufactured and Distributed to ISO 9001:2015 QMS
RELIABILITY:
- Low Failure Rate – 99+% Reliability Since Inception
WARRANTY:
- 5 Year Replacement Warranty
APPLICATIONS:

FIGURE 1: EXTENDING RS-232 DATA DISTANCE

FIGURE 2: MASTER/SLAVE MULTIPLE DROP CONFIGURATION