

REP-232-3P

RS-232 Isolated 3-Wire Repeater Pair Datasheet Revision 1.2

INTRODUCTION:

The SerialComm REP-232-3P is a pair of bi-directional port powered 2.5KV opto-isolated RS-232 port extenders in a 9 pin format. The converter pair can extend the distance of two standard full duplex RS-232C ports up to 4000 ft (1.2km). The units are powered from the RS-232 data lines. It also supports data direction auto-turnaround. Therefore, no external power or flow control is required. The data direction auto-turnaround automatically enables the 4-wire driver when data is present on the RS-232 side making the device plug-and-play, requiring no software drivers. Each REP-232-3P converter has a DB9 female connector on the RS-232 side and either a DB9 male connector or 5-way terminal block on the wire side. Separate terminal blocks are included in package.

CERTIFICATIONS:



GENERAL FEATURES:

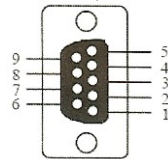
- 2500V optical isolation protects RS-232 devices from electrical surges and lightning strikes
- 2500V optical isolation also eliminates ground loop and noise problems
- Port Powered: no external power is necessary
- Data Direction, auto-turnaround, no flow control is necessary
- Plug-and-Play (Device is hot-pluggable)
- 5 Year Manufacturer's Warranty
- CE, FCC, ISO 9001 and IAF Compliance Certified
- Surface Mount Technology manufactured to ISO 9001 Standards

PINOUT CONFIGURATION:

RS-232 SIDE - DB9 FEMALE

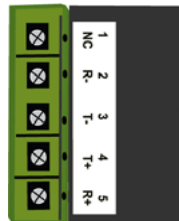
SIGNAL	DCD	DTR	DSR	RTS	CTS	TX	RX	GND
PIN #	1	4	6	7	8	2	3	5
FUNCTION	TIED		TIED		TX	RX	GND	

FEM. DB9

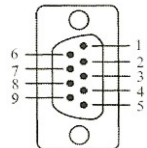


RS-422 SIDE - DB9 MALE OR TERMINAL BLOCK

SIGNAL	NC	R-	T-	T+	R+
PIN #	1	2	3	4	5
FUNCTION	NC	R-	T-	T+	R+



MALE DB9



SPECIFICATIONS:

PART NUMBER:	REP-232-3P
STANDARDS:	EIA/TIA RS-232C Standard
BAUD RATES:	From 300 Baud To 115,200 Baud
POWER SOURCE:	Port Powered From RS-232 Data Lines
CURRENT CONSUMPTION:	Less Than 10 mA
CONNECTOR TYPES:	RS-232 Side: DB9 Female and Wire Side: either DB9 Male or 5 Way Terminal Block
DISTANCE:	RS-232 Side: 16 ft (5m) and Wire Side: up to 4000 ft (1.2km)
OPTICAL ISOLATION:	2500 Volts
STATIC PROTECTION:	1500W Static Protection
SURGE PROTECTION:	600W Surge Protection
WEIGHT:	With Terminal Block: 1.2oz (36 grams) Without Terminal Block: 0.8oz (24 grams)
DIMENSIONS:	With Terminal Block: 3.17" X 1.33" X 0.73" (80.5 mm X 33.8 mm X 18.6 mm) Without Terminal Block: 2.47" X 1.33" X 0.70" (62.8 mm X 33.8 mm X 17.8 mm)
OPERATING TEMP.:	-4° F to 140° F (-20°C to 60° C)
OPERATING HUMIDITY:	5% To 95% - No Condensation

TROUBLESHOOTING INSTRUCTIONS:

- Perform a loop back test on a pair of REP-232-3P converters. Attach the two REP-232-3Ps to two serial ports on a PC per figure 1 and using two instances of a HyperTerminal program send a character from one and see if it echoes to the other. This will test both transmit and receive functions.

APPLICATIONS:

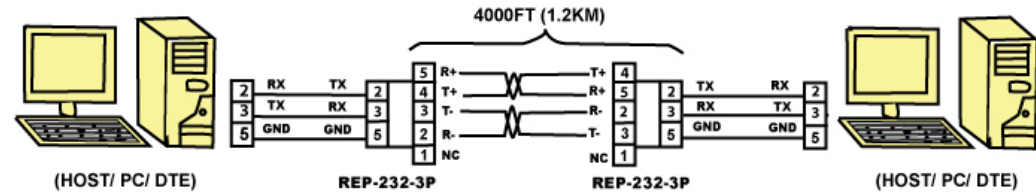


FIGURE 1: EXTENDING RS-232 DATA DISTANCE

