

Model 232TTL **CE**

## Four-Channel RS-232 to TTL Converter

### Description

The 232TTL converts RS-232 to TTL levels. Two channels are used to convert from RS-232 to 0 to +5 VDC TTL signals and two channels are used to convert from 0 to +5 VDC TTL signals to RS-232. This converter supports RD, TD, RTS, and CTS. The DB25P male connector (DCE) is for the RS-232 side. The DB25S female connector is for the TTL side. The pins used are:

#### DB25P Male RS-232

Pin	Function
2 (input) .....	TD .....
3 (output) .....	RD .....
4 (input) .....	RTS .....
5 (output) .....	CTS .....

#### DB25S Female TTL

Pin	
9 (output)	
14 (input)	
16 (output)	
23 (input)	

Pin 7 is signal ground for both connectors. The unit can work at baud rates up to 115K baud. On the RS-232 side, pins 8 (DCD), 20 (DTR), and 6 (DSR) are connected to open pads, if you would rather use these instead of the given RS-232 lines. Another feature is that the TTL and RS-232 pins can be changed by connecting wires from the pins you want to pads that have been provided. The unit needs a +12VDC power supply (100 mA approx.). A power supply is available from B&B Electronics.

It is important that TTL logic, and only TTL logic (0 to +5 VDC) is used for the TTL side of the converter. The maximum sinking current for one TTL output is 3.2 mA. The maximum source current for one TTL is 1 mA. Signal levels are inverted by the converter. Please refer to table below.

### Polarity

TTL Input	RS-232 Output	Units
low	positive	volts
high	negative	volts
TTL Output	RS-232 Input	Units
low	positive	volts
high	negative	volts

#### 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 Numbers:	232TTL
Description:	Four Channel RS-232 to TTL Converter
Type:	Light industrial equipment
Application of Council Directive:	89/336/EEC
Standards:	EN 55022 EN 61000-6-1 EN 61000 (-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11)

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