



**Model 232TTL** 

## 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		DB25S Female TTL	
Pin	Function	Pin	
2 (input)	TD	9	(output)
3 (output)	RD	14	(input)
4 (input)	RTS	16	(output)
5 (output)	CTS	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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