



Integrity Instruments

P.O. Box 451
Pine River Minnesota
56474 USA

Order Phone 800-450-2001
Fax Phone 218-587-3414
Tech Phone 218-587-3120

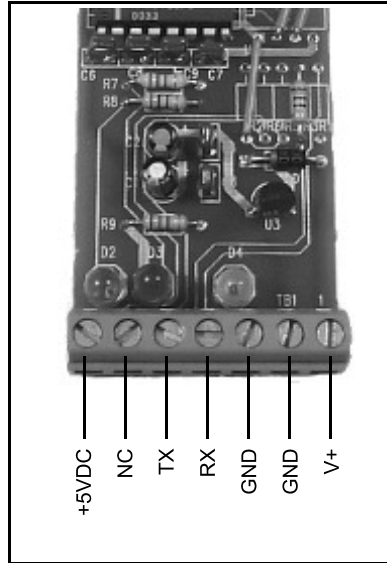
<http://www.integrityusa.com>



TTL-25A High Speed

RS-232 to TTL Logic
Converter

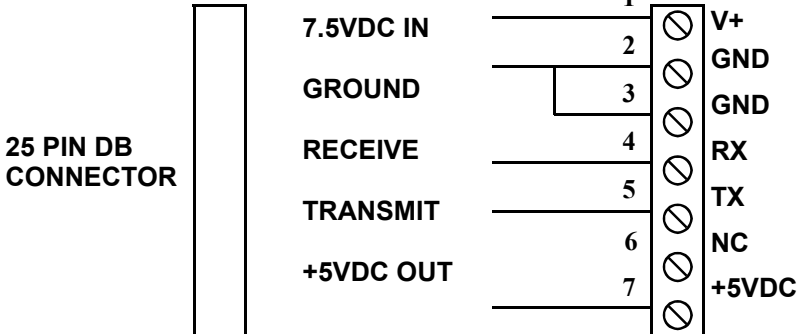
TTL-25A Connector pin out



Electrical Characteristics:

- * ESD rated to 1500V
- * **V+** voltage 7.5Vdc to 24Vdc rated 250 ma nominal
- * **V+** input is diode protected with a 1N4004
- * Power consumption is nominally 20 ma.

**TTL-25A
CONNECTIONS**



General Operational Notes:

- 1) There are **NO** special RS-232 settings required for operation
- 2) TxD is connected to DB25 pin 2
- 3) RxD is connected to DB25 pin 3
- 4) GND is connected to DB25 pin 7
- 5) 10 Ohm series resistor in TX and RX lines at terminal strip
- 6) **V+** reverse polarity is diode protected
- 7) A power source is required for proper operation

Performance Characteristics:

- 1) The **TTL-25A** supports data rates up to 120.0 KBPS.
- 2) The **TTL-25A** output voltage low is .4 v max.
- 3) The **TTL-25A** output voltage high is 3.5 v min.
- 4) The **TTL-25A** input logic threshold low voltage is .8 max.
- 5) The **TTL-25A** input logic threshold high voltage is 2.0 min.

DTE vs. DCE:

The **TTL-25A** expects the transmitted data to be present on pin 2 of the DB25 connector. Conversely, the received data is output on pin 3 of the DB25 connector. If the inverse is required, use a NULL MODEM cable, or switch the TxD and RxD signals.

RS-232 TxD transmitted data:	DB25 pin 2
RS-232 RxD received data:	DB25 pin 3

Notes:

- 1) The **GND** at terminals 2 and 3 of the terminal strip are electrically equivalent.
- 2) We suggest our PS9 9Vdc 400ma power supply.

LED Operation:

The TTL-25A has two LEDs to signal data transmit and receive, and one power on LED. Since the LEDs are powered only when data is present, it may be illuminated for somewhat brief periods.

RED LED ON	Transmitting data
GREEN LED ON	Receiving data
YELLOW LED ON	Power on

WARRANTY

Integrity Instruments warranties **all** products against defective workmanship and components for the life of the unit. Integrity Instruments agrees to repair or replace, at its sole discretion, a defective product if returned to Integrity Instruments with proof of purchase. Products that have been mis-used, improperly applied, or subject to adverse operating conditions fall beyond the realm of defective workmanship and are not covered by this warranty.

Copyright © 2000-2003, Integrity Instruments
All trademarks are property of their respective owners.
TTL_25A_Rev3