DIGITUS®

RS-232 to
TTL CONVERTER

User Manual

DA-70162

I. Summary

- Reliable communication between the equipment standard serial interface
- The external equipment or intelligent instrument, conversion to standard serial interface

RS232 to TTL interface converter can be a standard RS232C serial interface data: sending TXD and a receiving RXD signals into TTL/COMS compatibility level. TTL level is 0-5V, no external power supply, the internal use of the unique "RS232 charge pump circuit", don't need to initialize the RS232 serial port can be obtained with zero delay, power supply; automatic control data flow direction of I/O circuit is unique, and without any handshake signals (RTS, DTR), so as to ensure the RS232 written in full duplex mode under the program without change can perform well in TTL mode, to ensure that suitable for the existing software and hardware interface.

II. Performance parameters

- **Interface characteristics:**
  EIA/TIA interface compatible with RS232C, TTL/COMS standard
- **Electrical interface:**
  RS232 end DB9 pass connector, TTL terminal DB9 Needle connector
- **Working mode:**
  Full duplex asynchronous Transmission media twisted pair or belt shielding
- **Transmission speed:** 300-115.2Kbps
- **Size:** 63 x 34 x 18 mm
- **The environment:** -40 ℃ - 85 ℃
- **Relative humidity:** 5% - 95%
- **Transmission distance:** 5 meter

III. Electrical interface

IV. Connector and signal

RS-232C Pin Distribution

DB9 Female (PIN)	RS-232C Interface Signal
1	Empty
2	Signal out SOUT(TXD)
3	Signal in SIN(RXD)
4	Empty
5	Signal grounding GND
6	Empty
7	Empty
8	Empty
9	Empty

TTL output signal pin distribution

DB9 Male (PIN)	Output Signal	TTL Output
1	RXD	Signal in
2	TXD	Signal out
3	Empty	Empty
4	Empty	Empty
5	Grounding	Grounding
6	+5V	+5V power input backup

V. Application diagram