User Manual

Converter from RS-232 to TTL

I. Summary

In order to make the device a standard serial interface and an external device or to ensure communication between intelligent instruments, must be standard serial interface conversion. WM-210 interface converter can be a standard RS232C serial interface data: send and receive RXD TXD signals into TTL / COMS compatible voltage levels. TTL level is 0-5V, no external power supply, the internal use of the unique "RS232 charge pump" circuit drive, do not need to initialize the RS232 serial port can be obtained by power; interior with zero latency, the unique I / O circuit automatically control data flow direction, and without any handshaking signals (RTS, DTR), thus ensuring the RS232 full-duplex mode without changing a program written in TTL mode can run well, ensure that it meets the existing operating software and interface hardware.

II. Technical parameters

Interface: conforming to EIA/TIA RS-232 and TTL/COMS specification

Connector: DB9 connectors for both ends.

Transmission mode: asynchrony, full duplex, full transparent.

Transmission rate: 300bps-115.2kbps.

Measurements: 63mm*34mm*18mm

Working environments: -40 degrees to 85 degrees，relative humidity 5% to 95%.

Transmission media: twisted -pair or STP

Transmission distance: 5m

III. 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

PC — RS232 DB9M — DTE SIDE DB9F — WM-211E — DCE SIDE DB9M — RS232 DB9F — RS232 TERMINAL

NOTE:TE166 on both sides of the connecting cable with 9 lines of DB9F to DB9M a straight through cable

PC — RS232 DB9M — DTE SIDE DB9F — WM-210 — DB9M

1 RXD	TXD
2 TXD	RXD
5 GND	GND

TTL TERMINAL
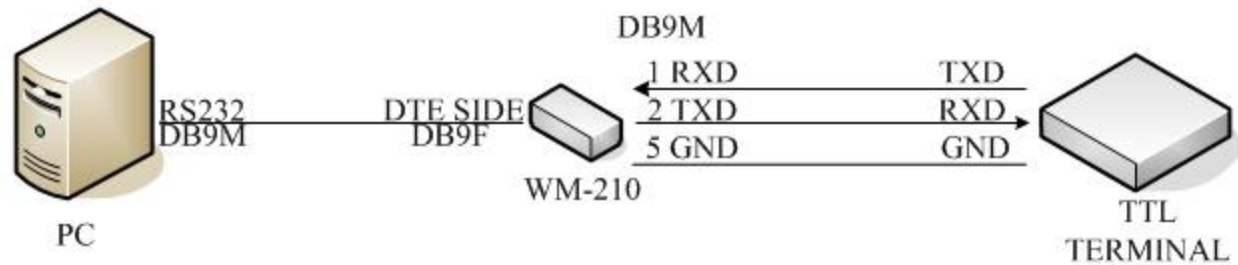
NOTE:TTL level generally use the transceiver cross connection