



RS-232C/RS-485

UT-2201 Interface Converter Instruction

1 Summary

In order to carry through remote digital communication between computers with various standard serial interface converter functions or intelligent instruments, it needs some exchange of standard serial interface converter of compatible RS-232C and RS-485 standard is able to convert serial and RS-232 signal to balance difference RS-485 signal and extend the communication distance to 1.2km. The external power just adopts a particular RS-232 charge pump to drive the system, and power absolutely without introducing the RS-232 serial interface. An internal data delay rate transmitter and particular RS current automatically control the data stream direction is ideal of an handshake signal (for example: RTN, ETRN etc.) There by it guarantees the function under RS-485 without changing the program compiled under RS-232 half-duplex mode and assures the adaptation to current operation software and interface hardware. The transmission rate of 960-115.2Kbps, has capable of applying between host computers, host computer and to instruments or external equipment and from data to data, data to data remote and multi-communication network. It implements multi-machine response communication and commonly used in systems of industrial automation control (oil-well used, Elevator, car parking, ATMA, bus charge, subway cell exit, staff attendance management, and toll highway etc.

2. Capability parameter

Interface feature: RS-232C/RS-485 standard interface compatible with EIA, TIA

Electric interface: RS-232 and DB9 male connector, RS-485 and DB9 female connector, with connection pins

Working mode: synchronous half-duplex difference transmission

Transmission media: twisted-pair or STP

Transmission rate: 960-115.2Kbps

External discharge dimension: 40mm X 73mm X 17mm

Working circumstance: -15 to 70 degree C, relative humidity 95 to 95%

Transmission distance: 1.2km(RS-485 end), for RS-232 end

3. Connector pin layout

RS-232C key-line distribution

DB9 Pinouts (PINS)	RS-232C Interface Signal
1	TXD
2	RXD
3	TXD (RTN)
4	RTN
5	RTN
6	RTN
7	RTN
8	RTN
9	RTN

RS-485 data output & connector and key-line distribution

DB9 Pinouts (PINS)	Data Output	RS-485 Half-Duplex
1	TXD+	RS-485 (+ve)
2	TXD-	RS-485 (-ve)
3	RTN	RTN
4	RTN	RTN
5	RTN	RTN
6	RTN	RTN
7	RTN	RTN
8	RTN	RTN
9	RTN	RTN

4. Diagram installation & application

The product series adopts DB-9 to DB-9 half-purposet test plugs, output plug various ordinary connection pins, can use STP or STP and every connection and disconnectable. TXD+, TXD- stands for dispatching. RTN, RTN stands for standby ground input. DB9 connector pins ground wire, function: data to data, half-duplex communication and 1 connection (TXD+, TXD- connection principle is TXD+ connects to opposite TXD-, RTN connects to opposite TXD-, RS-485 half-duplex mode connection is to connect TXD+ to opposite A+, and TXD- connects to B-.

Remark: A is for (RTN) A+, B- for (RTN) B-

1. RS-232C interface supports 2 communication modes as below

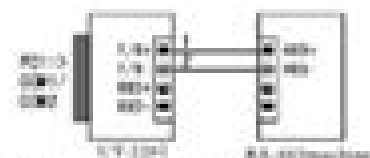
- 1.1 RS-232C interface half-duplex
- 1.2 RS-232C interface 2 wires half-duplex

When converter works under half-duplex connection, it needs to install a matching resistor (data 120 ohm 1/4W) for preventing signal reflection and interference.

2. Communication mode circuit map

RS-232 to RS-485 conversion

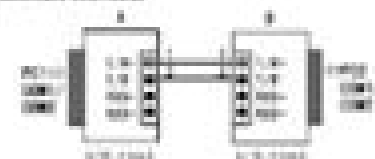
1. RS-485 data to RS-232C half-duplex



2. RS-485 data to RS-232C 2 wires half-duplex



3. RS-232C half-duplex communication connect between interface converter



5. Problem and resolution

1. data communication error factors

- A.1 Check if RS-232 interface connection is correct
- A.2 Check if RS-232 output connection is correct
- A.3 Check if connection mode wire is correct

2. data flow or not error

- A.1 Check if data rate and format is consistent on both communication end

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