



HighTek HK-7002

RS-232 Serial (3-wire)

Optical Isolator

User Manual

I. Parameters

1. Interface: conforming to EIA RS-232 and CCITT V2.4 synchronic protocols.
2. Connector: DB9 connectors for both ends.
3. Transmission mode: asynchronous, full duplex, full transparent.
4. Isolation voltage: 2,500Vrms impulse or 500 VDC continues.
5. Transmission rate: 300BPS-57,600BPS.
6. Power: from RS-232 interface (TXD, RTS or DTR)
7. Measurements: 63mm*33mm*17mm
8. Weight: 30g

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

II. Connector and signal

1. Pin distribution at RS-232 DTE end

DB9 Male	RS-232C Interface Signal
1	empty
2	Signal out SOUT(TXD)
3	Signal in SIN(RXD)
4	Empty
5	Signal Ground GND
6	empty
7	empty
8	empty
9	Ring Indication RI

2. Pin distribution at RS-232 DCE end

DB9 Female	RS-232C Interface Signal
1	Protection grounding cable
2	Signal in SIN (RXD)
3	Signal out SOUT(TXD)
4	Data Terminal ready (DTR)
5	Signal Grounding (GND)
6	Data Device Ready (DSR)
7	Request To Sending(RTS)

8	Clear To Sending (CTS)
9	Ring Indication RI

3. Model selection

First of all, you have to get a clear idea of which signal cables are used by your RS-232 system, then you can select the proper model isolator to protect your communication system. For example, for device with traditional 2, 3 and 5 lines, you can select HK-7002 isolator which supports 3-line /2-channel /1-receive and 1-send. For device supports 2,3,4,5 and 7 lines, you can select isolator which supports 5-line / 4-cable /2-receive-2-send.

III. Application areas

- Various kinds of multi-user systems such as UNIX.
- Protection of multi-user terminal and host.
- Protection of satellite receiver.
- Protection of multi-user cards.
- Protection of ATM automatic teller machines connected with
- RS-232 devices without public grounding.
- Protection of MODEM and routers.