

	Product Name	Key Feature
	<p style="text-align: center;">UT-209</p> <p style="text-align: center;">External-powered, RS-485/422 Repeater, Mini-size, PhotoElectric isolation</p>	

INTRODUCED

I. Summary:

Compatible with the Recommended Standards of RS-422 and RS-485 UT-209 photoelectric isolation data repeater can extend the communication distance of RS-422/RS-485 signal switchboard network and increase the number of RS-422/RS-485 network equipment. The built-in photoelectric isolator and DC/DC isolation module can provide an isolation voltage of as high as 250Vrms. Also, there is a rapid transient voltage suppression protector for the protection of RS-422/RS-485 interface with the advanced TVS(TRANSIENT VOLTAGE SUPPRESSOR) technology adopted. Under normal conditions the TVS tube is in the state of high resistance. However when both ends of the TVS tube are hit by a transient high energy the impedance at both ends can be depressed by the TVS at a very high speed and after absorbing a high current the voltage between the two ends is suppressed and kept at a pre-set value therefore no damage is caused to the electrical components behind by the transient high voltage impact. The protector can effectively restrain lightning or ESD (electro static discharge) with a protection voltage of 600W on each line for lightning surge and surge voltage or transient over voltage possibly caused up by various reasons and at the same time, a high-speed transmission of RS-422/RS-485 interface is ensured by the tiny capacitance between the poles. Through a DB9 female connector RS-422/RS-485 input interfaces are connected and for RS-422 and RS-485 output interfaces a DB9 male connector is to be used for connection. The unique I/O circuit of the internal zero delay auto transceiver contained in the converter controls the data stream direction automatically without any handshaking signal (for example RTS, DTR etc). The converter is plug-and-play without any jumper settings needed for mode shift mode shift between full duplex (RS-422) and half duplex (RS-485).

A reliable and stable point-to-point and point-to-multipoint communication can be ensured by UT-209 photoelectric isolation interface converter. For point-to-multipoint communication as many as 128 interface facilities of RS-422 or RS-485 standard can be connected to each converter, and a high data transmission rate of 300-115.2KBPS can be achieved. Power indicator light and data traffic indicator light are also available with the converter for malfunction indication.

II. Specification:

- Interface characteristic: compatible with the standards of RS-485/RS-422 issued by EIA/TIA.
- Electric interface: DB9 female connectors for RS-422/RS-485 interface input end, DB9 male connector for RS-422/RS-485 interface output end.
- Protection Grade: Impose a protection of 600W on each line of RS-422 and RS-485 interfaces for lightning surge +/-15KV
- ESD protection.
- Isolation degree: isolation voltage 2500Vrms 500DC non-stop.
- Operation mode: asynchronous half duplex or asynchronous full duplex.
- Signal indication: 3 pilot lamps for Power (PWR), Send (TXD) and Receive (RXD).
- Transmission media: twisted pair cable or shielded cable.
- Transmission rate: 300-115.2K BPS.
- Dimensions: 113mm*55mm*25mm.

- Working Circumstance: -25oC 70oC, relative humidity 5%-95%.
- Transmission distance: 0-5,000meters (115,200bps-9,600bps).

INFORMATION ORDER

MODEL: UT-209 External-powered, RS-485/422 Repeater, Mini-size, PhotoElectric isolation