

**RS232 Three Wire Signal Isolated Protector, 300~38.4Kbps, 2500V Opto-isolation****➤ Features**

- Rugged industrial-grade port-powered 3-wire RS232 opto-isolator;
- Industrial grade enclosed in a rugged, rustless ABS housing;
- Port-powered, no external power is required;
- Plug and play (hot-pluggable);
- Built-in 600W surge protection, 15kV static protection and circuit protection;
- Support 2500V optical isolation;
- Supports high-speed serial data rates: 300 to 38.4Kbps;
- Working temperature range:-40~85°C;
- Warranty:5years

**➤ Introduction**

The UP-232-P is a compact, rugged, industrial-grade, port-powered, 3-wire RS232 isolator with 2500V opto-isolation circuitry and optically isolates three (3) RS-232 lines (TX, RX and GND), which effectively protects your RS-232 devices from ground loops, noise problems, transient surges, remote lightning and spikes.

UP-232-P support built-in 600W surge protection and 15kV ESD static protection, no external power required, can work within a temperature range of -40~85°C, which is widely used in intelligent power management, power system automation, water conservancy monitoring, industrial automation, distributed data acquisition and other occasions.

➤ Application Industries

- Industrial Automation
- Intelligent transportation supervisory system (ITS)
- Long-distance broadcast television transmission system
- Electric Power Industry
- Rail transportation industry
- Power system automation
- Water conservancy monitoring
- Distributed data acquisition

➤ Specification

Technical parameters	
Standard	Compliant with EIA RS-232 standard
Connector	DB-9 Female
Baud Rate	300bps~38.4Kbps
Power	
Power Supply	Serial Port Powered
Interface	DB9 interface, industrial terminal block
Lightning protection	600W
Static protection	15KV
Optical Isolation	2500V
Physical Characteristics	
Shell	DB9 plastic case
Dimension	63mm×17mm×33mm (H*D*W)
Weight	30g
Transmission distance	
Serial port line	RS-232, 15m@9600bps
Working Environment	
Working Temp	-40~85°C
Storage Temp	-40~85°C
Relative Humidity	5%~95% (no-condensation)
Warranty	
Warranty	5 Years
Certification	CE, FCC, RoHS

➤ Application

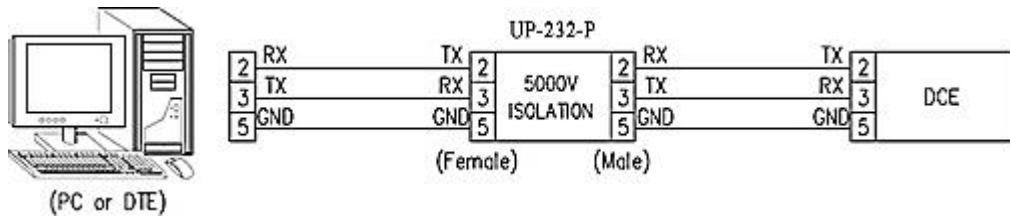


FIGURE 1: CONNECTION DIAGRAM (DTE TO DCE)

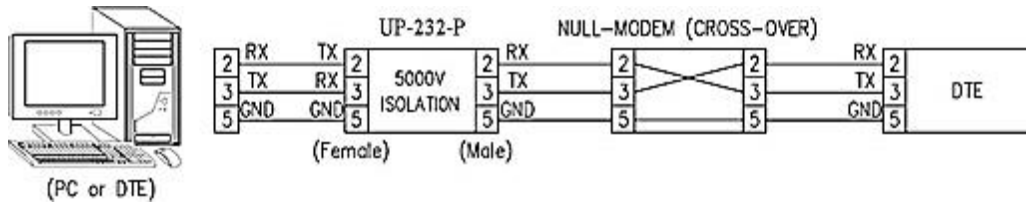


FIGURE 2: CONNECTION DIAGRAM (DTE TO DTE)

➤ PIN setting

Isolation DB-9 Female:

PIN	2	3	4	6	7	8	5
Define	TX	RX	short circuit		short circuit		GND

Isolation DB-9 male :

PIN	2	3	4	6	7	8	5
Define	RX	TX	short circuit		short circuit		GND

DB25(pin)and DB9 (pin) corresponding

PIN (DB25)	2	3	4	5	6	7	8	20	22
PIN (DB9)	3	2	7	8	6	5	1	4	9
Define	TX	RX	RTS	CTS	DSR	GND	DCD	DTR	RI

➤ Ordering Information

Model NO.	Description
UP-232-P	RS232 Three Wire Signal Isolated Protector, 300~38.4Kbps, 2500V Opto-isolation
UP-485-R	Industrial RS-485/RS-422 Isolator/Repeater/Converter, 2500V Opto-isolation, DC9-30V
MW1040-I-R	Industrial RS-485/RS-422 Isolator/Repeater/Converter, 3000V Opto-isolation, DC9-36V
UP-232-H4	Industrial 1-port RS-232 to 4 ports RS-232 Isolation HUB, 2500V Opto-isolation, DC9-30V
UP-485-H4	Industrial 1-port RS-232/RS-485 to 4 ports RS-485 Isolation HUB, 2500V Opto-isolation, DC9-30V

➤ Packing List

- RS232 Three Wire Signal Isolated Protector *1
- User manual * 1
- Certificate of quality * 1
- Warranty card * 1