

ISO-232-8E

Industrial RS-232 Isolator 8-Wire

PINOUT CONFIGURATION: RS-232 SIDE – DB9 FEMALE

FEM. DB9

SERIALCOMM.COM

GENERAL FEATURES:

- Plug-and-Play (hot-pluggable) •
- High speed up to 115.2K baud
- 2500Vrms or 500VDC optical isolation .
- Isolated TX, RX, RTS, CTS, DTR, DSR, RI • and GND signals
- Industrial-grade heavy duty housing .
- Data direction auto-turnaround no flow control necessary
- External power: 9 48VDC or 100-240VAC ٠
- Built-in surge and static protection .
- 5-vear manufacturer's warrantv
- CE. FCC. RoHS and REACH certified •



SIG.	тх	RX	DTR	DSR	RTS	CTS	R	GN
PIN #	2	3	4	6	7	8	9	5
FUNCT.	тх	RX	DTR	DSR	RTS	CTS	R I	GNI

RS-232 SIDE – DB9 MALE

MALE DB9

SIG.	тх	RX	DTR	DSR	RTS	CTS	R I	GND
PIN #	3	2	6	4	8	7	9	5
FUNCT.	тх	RX	DTR	DSR	RTS	CTS	R I	GND



SPECIFICATIONS:

COMMUNICATION				
STANDARDS:	EIA/TIA RS-232C Standard			
BAUD RATES:	From 300 bps to 115,200 bps			
CONNECTOR TYPES:	RS-232 Side: DB9 Female and RS-232 Side: DB9 Male			
DISTANCE:	Both RS-232 Sides: 16 ft (5m)			
ELECTRICAL				
POWER SOURCE:	9VDC to 48VDC			
DC/AC POWER ADAPTER:	Included 12V / (100 -240VAC 50/60 HZ US Type a Plug) 500 mA			
OPTICAL ISOLATION:	2500 V (2500Vrms 1 min, AC) or Continuous 500VDC			
CURRENT CONSUMPTION:	Less Than 100 mA			
STATIC PROTECTION:	15KV Electric Static Discharge (ESD) Protection			
SURGE PROTECTION:	600W Surge Protection			
MECHANICAL				
HOUSING:	Heavy Duty Aluminum			
WEIGHT:	4.0oz (114 grams)			
DIMENSIONS:	4.91" X 2.18" X 0.98" (124.7 mm X 55.0 mm X 24.9 mm)			
ENVIRONMENTAL				
OPERATING TEMP.:	-40° F to 185° F (-40°C to 85° C)			
STORAGE TEMP:	-40° F to 185° F (-40°C to 85° C)			
OPERATING HUMIDITY:	5% To 95% - No Condensation			
QUALITY				
PRODUCT SAFETY:	CE, FCC, RoHS and REACH Third-party Certified			
QUALITY MANAGEMENT	Manufactured and Distributed to ISO 9001:2015 QMS			
MEAN TIME BEFORE FAILURE:	306,000 Hours			
RELIABILITY:	Low Failure Rate – 99+% Reliability Since Inception			
WARRANTY:	5 Year Replacement Warranty			

DESCRIPTION:

The SerialComm ISO-232-8E is an industrial grade high-speed (up to 115.2K baud) bi-directional externally powered 2500V opto-isolated RS-232 isolator. The ISO-232-8E optically isolates the 8 lines: TX, RX, CTS, RTS, DTR, DSR, RI and GND. Isolation protects the RS-232 ports from voltage surges, lightning strikes, GND loops and noise conditions. The ISO-232-8E has a DB9 female connector on the RS-232 serial port, and DB9 male connector on the other RS-232 port. The unit is enclosed in a heavyduty aluminum housing and is powered from an external power 12V DC or 100-240VAC power source so you do not have to rely on the host RS-232 ability to port-power the isolator.

CERTIFICATIONS:



TROUBLESHOOTING INSTRUCTIONS:

Using one ISO-232-8E unit:

- 1. Check that all connections comply with the connection diagrams.
- Perform a continuity test on one unit: 2.
 - Connect the power adapter to the ISO-232-8E a)
 - Connect the ISO-232-8E in between RS-232 path. b)
 - If there is continuity in the data stream, then it is working. If the ISO-232-8E is not C) being powered properly it will not work at all.
 - d) When power is on the RED light will be on. When data is being transmitted the GREEN light will flash. When data is being received the YELLOW light will flash.

Datasheet Revision 2.6





APPLICATIONS:

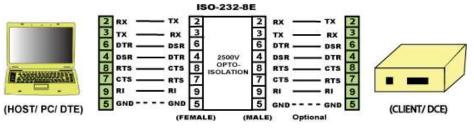


FIGURE 1: 2500V ISOLATION BETWEEN A DTE AND A DCE

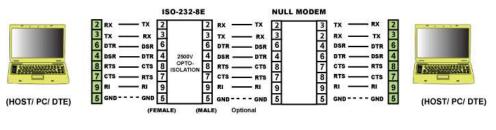


FIGURE 2: 2500V ISOLATION BETWEEN TWO DTES