

Fiber 232® Model 4107 F07 (POF) Fiber/RS232 Converter

- Provides Electrical-to-Optical, Optical-to-Electrical Conversion.
- Plastic Optical Fiber interface provides immunity to electromagnetic interferences and pulses common to industrial applications.
- Totally eliminates ground loops and noise problems associated with high-voltage applications.
- Ideal for providing isolation to sensitive test equipment/computers used in conjunction with electrostatic test simulation devices.

Model 4107 Application

The Model 4107 F07 (POF) Fiber/RS232 Converter is used to provide copper/fiber media conversion between an RS232 interface device and a plastic optical fiber (POF) interface device. While the RS232 is a versatile communication standard, conversion to a fiber optic communication standard allows data transmission that is no longer susceptible to electrostatic or electromagnetic fields. Additionally, the ports of the connected devices are protected from damage by potential differences (ground variations) that often exist between them.

F07 POF Fiber / RS232® Features:

- Converts RS232 Serial Communication Interface to **Fiber (POF) interface**.
- RS232 copper connection via **DB9 Connector**.
- Plastic Optical Fiber connection via **F07 Fiber POF Connector**.
- Provides full galvanic isolation (no metal connection) between connected devices.
- Full duplex connection between F07 fiber optic interface device and an RS232 interface device.
- Allows interference-free fiber optical transfer of data to the device having an RS232 interface.
- Data transfer rate up to 1 Mbps.
- Fiber connections via a full duplex F07 connector.
- Model 4107 is configurable for use as DCE or DTE. It is factory configured as a DCE unless otherwise specified with order. To reconfigure the unit to a different setting in the field, jumpers on board must be changed.
- LED Status indicators display data transfer activity.
- Provided with external wall mount power supply, UL Listed, RoHS, LPS.

Model 4107 F07 (POF) Fiber to RS232 Converter



SPECIFICATIONS:

Plastic Fiber: (POF)

- Cable Type:** 1 mm plastic optical filament.
- Wavelength:** 660 nm (red).
- Transmission Distance:** 75 m (250 ft.) (POF).
- Data Transfer Rate:** Up to 1 Mbps.
- Optical Fiber Connector:** F07 (POF) Full Duplex (TX, RX).

RS232 Serial Interface:

- Transmission Distance:** At 115.2 Kbps, 100 meters using low capacitance cable.
- RS232 Connector:** DB9 Female.
- External Power Supply (included with Model 4107):** 100 -240 VAC @ 50/60 Hz. UL Listed, RoHS, LPS (Cat No 529954)
- Dimensions:** 5.57" x 2.25" x 1.13" (141mm x 58mm x 29mm).
- Weight:** Approximately 0.5 Lb. (226 grams).
- Status:** Red LED indicates Fiber RX Data Activity. Green LED indicates Fiber TX Activity.

RS232 Signals			
Model 4107 DTE	Model 4107 DCE		
DB9 Pin #	DB9 Pin #	Signal	Signal Direction
2	3	RXD	← IN
3	2	TXD	→ OUT
5	5	REF/GND	

F07/F07 Plastic Core Cables	
Catalog Number	Length
989546-010	10 Feet
989546-020	20 Feet
989546-XXX	Length in Feet

MODEL 4107 APPLICATION: Providing electrical interference isolation via copper-to-fiber media conversion.

