

## Fiber 485® Models 4127 / 4129 HP Fiber / RS-485 Converters

- Allow Connection of HP Fiber Optic Linked Terminals to RS-485 Port of Controller

### Models 4127 / 4129 Application

The Fiber 485, HP Fiber / RS-485 Converters are used to connect fiber optic linked terminals to a controller having an RS-485 / RS-422 interface port. While RS-485 is a versatile communication standard, able to communicate over long distances and at fast data rates, conversion to a fiber optic communication standard also allows data transmission that is no longer susceptible to electrostatic or electromagnetic fields. Additionally, the ports of the connected terminals are protected from damage by potential differences (ground variations) that often exist between them.

### Fiber 485® Features:

- Model 4127: RS-485 / RS-422 connection via a DB-15 connector.
- Model 4129: RS-485 / RS-422 connection via an RJ-45 connector.
- Converts RS-485 / RS-422 Serial Communication Interface to **HP Versatile Link plastic core cable**.
- Copper interface features ESD and Transient Voltage protection
- Provides full galvanic isolation (no metallic connection) between connected devices.
- Full duplex connection between two devices having RS-485/RS-422 ports.
- Allows the interference-free fiber optical transfer of data to be utilized by the device having an RS-485/RS422 interface.
- Data transfer rate up to 1 Mbps.
- Fiber connections via two standard Versatile Link connectors.
- Configurable for use at DCE or DTE (specify with order).
- Maximum Link distance: greater than 500 meters (1640 feet) with 200 mm Hard Clad Silicon fiber cable.
- Provided with external wall-mount power supply, UL approved.



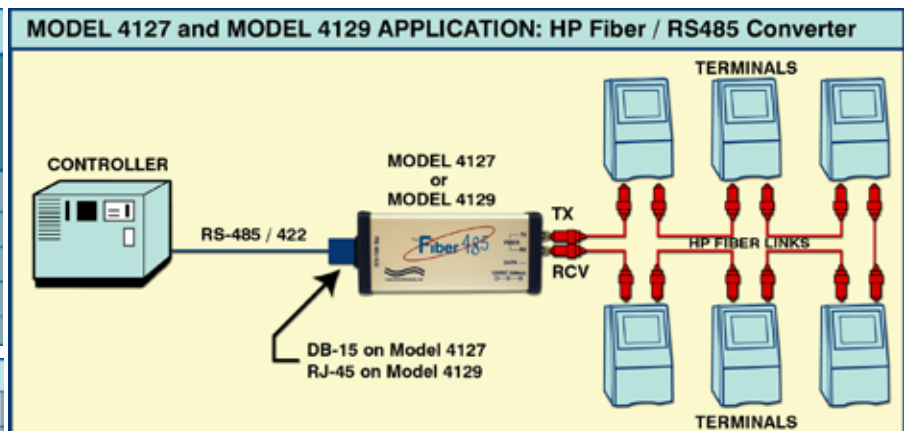
Fiber 485® HP Fiber / RS-485 Converters

### Fiber 485® Specifications:

- Data Transfer Rate: Up to 1 Mbps
- Fiber Transmission Distance: 75 m (250 ft.) using TC 1000 W type plastic fiber cable.
- RS-485/422 Transmission Distance: Greater than 300 m (1000 ft.).
- Optical Fiber Connectors: HP/Agilent Versatile Link
- RS-485/RS-422 Connector: DB-15 female on Model 4127, RJ-45 female on Model 4129
- Optical Cable Type: 1mm plastic optical film
- Optical Wavelength: 660 nm (red)
- External Power Supply: 120 VAC, 60 Hz
- Dimensions: 5.5" x 2.25" x 1.0" (139mm x 57mm x 25mm).
- Weight: 0.5 Lb. (226 grams)
- Status Display: Red LED

RS-485 / 422 SIGNALS			
Model 4127	Model 4129	SIGNAL	SIGNAL DIRECTION
DB-15 Pin #	RJ-45 Pin #		
4	4	RX+	← IN
11	6	RX-	← IN
2	1	TX+	→ OUT
9	7	TX-	→ OUT
7	5	REF/GND	

HP VERSATILE LINK PLASTIC CORE CABLES	
Length	Catalog No.
10 Feet	986625-010
20 Feet	986625-020
30 Feet	986625-030
40 Feet	986625-040



**Custom Length HP Fiber Cables Available**  
**ORDER: Catalog Number 986625 - Length (in feet)**

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