

## WARRANTY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and its subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of two full years from the date of the original shipment. Should a problem occur, a Return Material Authorization Number (RMA) must be obtained from Liteway Inc. at (516) 931-2800 and the item returned to Liteway, Inc. 166 Haverford Road, Hicksville, NY 11801, USA, prepaid. Liteway Inc. will then, at its option repair or replace the defective item.

Liteway, Inc. maximum liability under this warranty is limited to the cost of the defective item only. No contingent liabilities of any kind are either assumed or implied.

Any items returned to Liteway, Inc. that have been misused, abused, damaged, modified, connected or adjusted in any way contrary to the instructions furnished by Liteway, Inc. or repaired by unauthorized personnel will not be covered by this warranty. Any non-warranty repairs required will be quoted at the current rate for such services.



### Important Notices



#### **CAUTION! AVOID DIRECT EXPOSURE TO BEAM.**

All -7,-8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. Laser diodes produce invisible radiation that may be harmful to human eyes. Never look directly into the optical port of any fiber optic unit designed to operate with single-mode optical fiber.

#### **NOT FOR LIFE SUPPORT SYSTEMS**

Liteway, Inc. does not authorize or warrant any of its products or accessories for use in critical life support systems or applications of any kind.

## OPERATING INSTRUCTIONS

### Fiber Optic

### Optical Coupler

### Model OE-1001



The OP-1001 is an amplified analog optical to electrical converter that is utilized to view optical signals present in a fiber optic cable. It is useful for research and development applications as well as routine troubleshooting.

### Technical Specifications

Bandwidth (-3dB)	50 KHZ to 1.5 GHz
Rise time	< 1 nsec for -3, -7 models < 2 nsec for -1 models
Optical Input Power Max	0 dBm (1000uW) @850nm -3 dBm (500uW) @ 1310/1550 nm
Optical Noise Level (typical)	-20 dBm (10uW) rms @ 850nm -23 dBm (5uW) rms @ 1310/1550nm
Dynamic Range	20 dB usable
Electrical Output Level	1V peak to peak at max optical
Output Impedance	50 Ohms
Operating Wavelength	660,850, 1310 or 1550nm
Indicators	Power, Signal
Electrical Signal Connector	BNC
Temperature Range	-35° to +75°C
Power Requirements	11-24 VAC/DC @250ma
Physical Size (mm)	5.0"(127)L x 1.0" (25.4)W x 3.0"(7)D

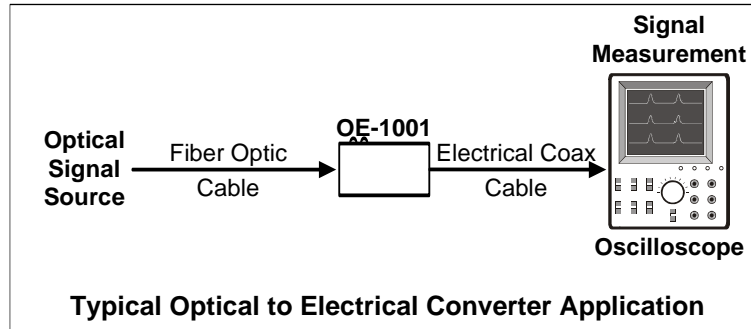
All specifications are subject to change without prior notice.

**LuxLink™**  
www.luxlink.com

166 Haverford Road  
Hicksville, NY 11801  
USA 516-931-2800

# Installation Instructions

The below diagram shows a typical use of the OE-1001 electrical to optical converter.



Two wavelength ranges are available. The sensitivity of these ranges are as follows;

Models OE-1001-3 & -7	
$\lambda$	Sensitivity
1550nm	> 60 mV/mW
1310nm	> 50 mV/mW
850nm	> 10 mV/mW

Model OE-1001-1	
$\lambda$	Sensitivity
850nm	> 30 mV/mW
660nm	> 15 mV/mW

## Power Terminal Block Connections

Pin	Function
1	Alarm output for use with optional Alarm Sensing Unit ALM-1000. No other connections should be made to this terminal
2	+11 to 24 DC or AC Volts input
3	AC or DC return (Common to Housing)

Be certain to check all connections, settings and voltages before applying power

## Indicator Lights

Integral indicators are provided to monitor repetitive signals as well as the presence of operating power making system troubleshooting simple.

Indicator	Lights when
Pwr	Proper power is present.
Alrm	The loss of signal alarm is activated and there is no video present.
Sig	A data signal is being received.

The **Alarm** switch is used to turn the alarm function on and off.