WARRANTY

All fiber optic transmission systems, products and accessories manufactured by Liteway, Inc. and it's subsidiaries are fully tested prior to shipment and are warranted against defective materials and workmanship for a period of five 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 –5, -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

Litelink®
Fiber Optic Audio
Transmission System

Models AT-1001, AR-1001



The AT/AR-1001 system consists of the AT-1001 transmitter and AR-1001 receiver. This system will transmit high quality balanced or unbalanced line level audio signals from one point to another.

Technical Specifications

50 KHz
600 ohms
3 volt pp
Balanced or Unbalanced
3% max
60dB/min
0 - 12dB
850 (-1), 1300 (-3,-7), 1550 (-9) nm
Multimode; -1, -3, Single-mode; -7, -9
1,Multimode or Single-mode
-35° to +75°C
11-24 VAC/DC @150 mA
5.0"(127)L x 1.0" (25.4)W x 3.0"(7)D

All specifications measured with 1Km of 62.5u multimode fiber and specifications are subject to change without prior notice.

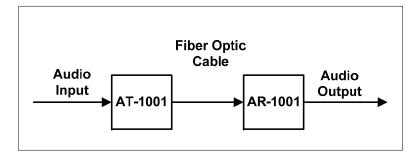


www.LiteLink.com USA 516-931-2800

Installation Instructions

The diagram below shows the typical installation of the AT-1001 and AR-1001 fiber optic transmission system.

To compensate for fiber optic cable losses there is a level adjustment on the AR-1001. In operation a standard 3 volt pp audio signal (1 volt rms maximum) is applied to the AT-1001. The transmitter then converts the audio to modulated light and sends the audio over the fiber optic cable to the receiver. At the receiver the modulated light is converted back into audio. The level adjustment can then be used to adjust the maximum output level to 3 volts pp (1 volt rms) across a 600 ohm load. The range of the level control is adequate to allow the full 0-12dB optical path loss range to be accommodated.



106600 Rev M

Signal Connector Connections

Pin	Function
1	(+) Audio Output (AR-1001 & AX-1001)
2	(-) Audio Output (AR-1001 & AX-1001)
3	Common (ground)
4	(-) Audio Input (AT-1001 & AX-1001)
5	(+) Audio Input (AT-1001 & AX-1001)

If audio input / output is of the unbalanced type, Add a jumper from the respective (-) signal to ground (pin 3). For example, a balance Tx audio to be transmitted connects to pins 4 and 5. For an unbalance Rx connect to pins 1 and 2, and connect pins 2 & 3 together.

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)

Indicator Lights

Indicator	Lights when
Pwr	Proper power is present.
Alrm	The loss of signal alarm is activated when the audio signal level is between 0 and 1 volt pp.*
Sig	More than 1volt pp of audio is present.

^{*} As a result, the alarm circuit will not operate properly if the audio signal is either intermittent or if it varies between 0 and 1 volt pp.

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



www.LiteLink.com USA 516-931-2800