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 -7,-8, and -9 Models use laser diodes. These solid-state laser diodes are located in the optical ports of these units. These 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

LuxLink®
Fiber Optic Universal Sensor Transmission System

Models; INST-2001 / INSR-2001

The ***LuxLink***® INST/INSR-2001 system consists of the INST-2001 transmitter and INSR-2001 receiver and will transmit DC voltages or standard analog current loop signals in a wide variety of industrial and instrumental applications.

Technical Specifications

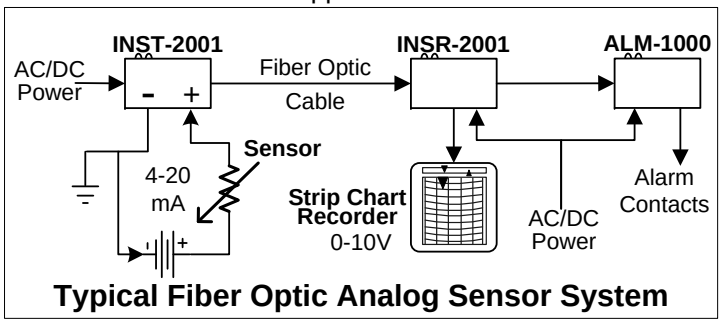
Bandwidth	DC-100 Hz (-3dB)
In/Output Level	0 to +1 or +10 volts or 0-20 mA
In/Output Impedance	10K voltage mode, 50 ohms current mode
Signal/Noise Ratio	60 dB minimum
Linearity/Accuracy	< 2.4%
Operating Wavelength	850 (-1), 1300 (-3,-7), 1550 (-9)
Optical Loss Budget	0 – 13 dB (single-mode or multimode)
Signal Connectors	Removable terminal block for V or mA, BNC for V only
Fibers Accommodated	1 multimode (-1,-3), 1 single-mode (-7,-9)
Temperature Range	-35º to +75ºC
Power Requirements	11-24 VAC/DC @150 mA
Physical Size (mm)	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.
All specifications are subject to change without prior notice.

LuxLink®
Fiber Optic Transmission Systems
www.LuxLink.com
USA 516-931-2800

Installation Instructions

The diagram below shows a typical application of the INST/INSR-2001 in a remote sensor application.



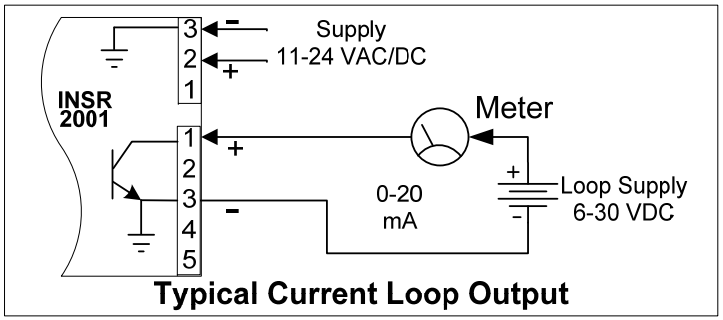
Typical Fiber Optic Analog Sensor System

DIP Switch Settings

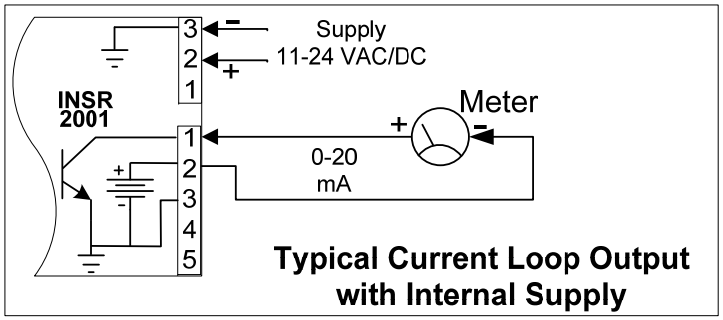
Before applying power set the 10 position DIP switch for the mode of operation desired as follows: Note that "On" is down or toward the mounting base.

Signal	1	2	3	4	5	6	7	8	9	10
0 to 1 V	Off	On	Off	Off	On	*	**	Off	Off	Off
0 to 10 V	On	Off	Off	Off	On	*	**	Off	Off	Off
0 - 20 mA	Off	Off	On	Off	On	*	**	Off	Off	Off
4 - 20 mA	Off	Off	On	On	Off	*	**	Off	Off	Off

*Switch 6 Over-range alarm enable.
**Switch 7 Under-range signal alarm enable.
Note Link alarm always enabled. Switches 8, 9, & 10 are not used



Typical Current Loop Output



Typical Current Loop Output with Internal Supply

Signal Terminal Block Connections

Pin	Function
1	+ Current Loop Input or Output
2	+12 VDC Output for powering current loop.(limited 20mA)
3*	Current Common, Enclosure Ground
4*	Voltage Common (This is also BNC shell)
5	+ Voltage Input or Output (This is also BNC center pin)

Note that positions 3 and 4 are connected together and to the case.

Power Terminal Block Connections

Pin	Function
1	Alarm output for use with optional ALM-1000 Alarm Sensing Unit. No other connections should be made to this terminal pin.
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

Indicator	Lights when
Pwr	Proper power is present.
Alrm	The loss of data alarm is activated and any failure mode is present.
Link	The transmitter and receiver are linked.
Hi Limit	An input signal has exceeded the maximum upper (+) limit. This applies to the voltage or current mode.
Lo Limit	An input signal has reversed polarity (negative). This applies only to the voltage mode.

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