

## Wide-Band Analog

## INST/INSR-1001

### For Cost-effective Analog Instrumentation Applications

The **LuxLink**<sup>®</sup> INST/INSR-1001 system consists of the INST-1001 transmitter and INSR-1001 receiver. Both units utilize intensity modulation to transmit wide band analog signals for a host of laboratory and instrumentation applications.

Both multimode and single-mode versions are available and installation only requires a simple one-minute calibration adjustment. Integral indicators are provided on both units to continuously indicate the presence of repetitive signals as well as the presence of operating power making system troubleshooting simple.

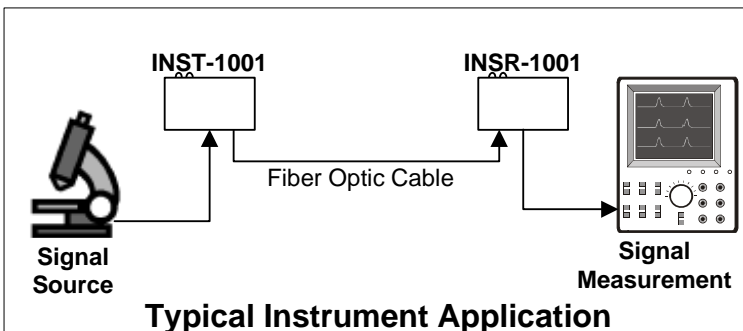


## Technical Specifications

System Bandwidth (minimum)	20 Hz to 10 MHz (+0,-3dB)
Input/Output Impedance	50 ohms
Input Level	1 Volt peak to peak
Output Level	1 Vpp,(3 Vpp into 10K Load)
Signal/Noise Ratio*	60 dB minimum (ref 1Vpp)
Linearity *	3.0% maximum
Phase Shift*	3.0° maximum
System Delay*	25 ns + 1ns/foot of fiber
Rise/Fall time	35 ns minimum
Operating Wavelength	850, 1310 or 1550nm
Optical Loss Budget	0-13 dB (multimode) 0-13 dB (single-mode)
Optical Connectors	ST (multimode) FCPC (single-mode)
Signal Connector	BNC
Power Connector	Removable terminal block
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217)	>120,000 hours
Power Requirements	11-24 VAC/DC @150 mA
Physical Size (mm)	5.0"(127)x3.0"(76)x1.0"(25.4)

\* Measured with 1Km of 62.5u multimode fiber.

Note that all specifications are subject to change without prior notice.



## Important Features

- **10 MHz Signal Bandwidth**
- **Very Cost-effective**
- **Signal & Power Indicators**
- **Multimode or Single-mode versions**
- **Stand-alone, DIN or Rack Mountable (same unit)**

### Ordering Information

Transmitter, INST-1001-X  
Receiver, INSR-1001-X

"X" = Wavelength/Fiber

- 1 = 850nm Multimode
- 3 = 1310nm Multimode
- 7 = 1310nm Single-mode
- 9 = 1550nm Single-mode

For stand-alone operation order a PS-1205 power supply for each unit.

For rack mounted operation all operating power is provided by power supply used with the rack-mounting panel.