

Low Noise Analog

INST/INSR-1101

For Low Noise Analog Instrumentation Applications

The **LuxLink**[®] INST/INSR-1101 system consists of the INST-1101 transmitter and INSR-1101 receiver. Both units utilize intensity modulation to transmit low noise 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.

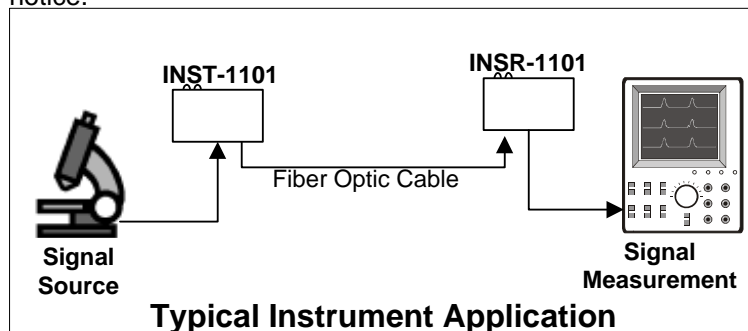


Technical Specifications

System Bandwidth (minimum)	20 Hz to 20 KHz (+0,-3dB)
Input/Output Impedance	600 ohms
Input Level	1 Volt peak to peak
Output Level	1 Vpp (2 Vpp into 10K Load)
Noise Level	1 millivolt pp typical
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	0-10 dB (multimode) 0-10 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

- **20 KHz Signal Bandwidth**
- **1 mv pp Noise Level**
- **Signal & Power Indicators**
- **Multimode or Single-mode versions**
- **Stand-alone, DIN or Rack Mountable (same unit)**

Ordering Information

Transmitter, INST-1101-X
Receiver, INSR-1101-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.

LuxLink[®]

Fiber Optic Transmission Systems

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