

ULTRA-WIDEBAND ANALOG

INST/INSR-1701

For Cost-effective Wideband Analog Applications

The **LuxLink™** INST/INSR-1701 system consists of the INST-1701 transmitter and INSR-1701 receiver. This link will transmit ultra-wideband analog signals at frequencies up to 1.5 GHz.

Single-mode 1310 & 1550 versions are available. 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.

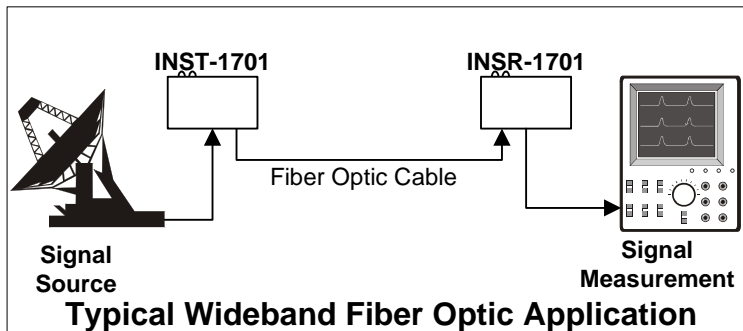
For 1V pp input levels utilize the INST-1721 model.



Technical Specifications

System Bandwidth single mode	300 KHz -1.5 GHz (+0,-3dB)
System Bandwidth multi mode	300 KHz – 500KHz/Km
Input / Output Impedance	50 Ohms
Input Level	0.1 Volt pp maximum
Output Level	1.0 Volt pp maximum
Signal / Noise Ratio	48 dB minimum
Optical Noise Level (typical)	-23 dBm(5uW)rms
Linearity	3.0% maximum
Phase Shift	3.0° maximum
Rise / Fall time	0.5 ns minimum
Dynamic Range	20 dB usable
Operating Wavelength	1310nm or 1550nm
Optical Output Power	-16 dBm typical
Rx Optical Power Input	-3 dBm maximum
Optical Loss Budget	0-10 dB
Optical Connectors	FC/PC (ST/PC multimode)
Signal Connector	BNC
Operating Temperature	-35° to +75°C
Power Requirements	11-24 VAC/DC @350mA
Physical Size (mm)	5.0" (127) x 3.0" (76) x 1.0" (25.4)

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



Important Features

- **1.5 GHz Analog Bandwidth**
- **Signal/Power Indicators**
- **Standard Single-mode Fiber Compatibility**
- **Stand-alone or Rack Mountable (same unit)**
- **Din Rail mount option**

Ordering Information

Transmitter INST-1701-X
Receiver INSR-1701-X

"X" = Wavelength/Fiber

-3 = 1310nm Multi-mode
-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.