Wide-Band Analog　　　　　　　　　　　INST/INSR-1301

For Cost-effective Analog Instrumentation Applications

The *LuxLink*® INST/INSR-1301 system consists of the INST-1301 transmitter and INSR-1301 receiver. Both units utilize intensity modulation (IM) 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　　　　　　　　Important Features

System Bandwidth	20 Hz to 30 MHz (+0,-3dB)
Input / Output Impedance	50 ohms
Input Level	1 Volt peak to peak
Output Level	1 Volt pp (3 Vpp if 10K load)
Signal /Noise Ratio	60 dB minimum
Linearity	3.0% maximum
Phase Shift	3.0° maximum
System Delay	25 ns + 1ns/foot of fiber
Rise / Fall time	15 ns minimum
Operating Wavelength	850, 1310 or 1550nm
Optical Loss Budget	0-13dB (multimode)
	0-13dB (single-mode)
Optical Connectors	ST (multimode)
	FCPC (single-mode)
Signal Connector	BNC
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)

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

- *30 MHz Signal Bandwidth*

- *Very Cost-effective*

- *Signal & Power Indicators*

- *Multimode or Single-mode versions*

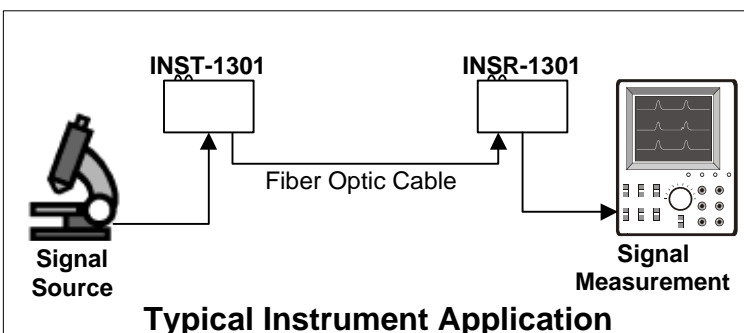- *Stand-alone, DIN or Rack Mountable (same unit)*

Ordering Information

Transmitter, INST-1301-X
Receiver, INSR-1301-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.

INST-1301　　　　**INSR-1301**

Fiber Optic Cable

Signal Source　　　　**Signal Measurement**

Typical Instrument Application

LuxLink®
Fiber Optic Transmission Systems

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