

Instrument Signal Transmission

INST/INSR-2001

For 0-10 Volt or 0-20mA Analog Instrumentation Applications

The **LuxLink®** INST/INSR-2001 system consists of the INST-2001 transmitter and INSR-2001 receiver. This system transmits the most common analog industrial sensor signals (0 to +10 Volts or 0-20mA) from point-to-point using interference-free fiber optic transmission technology. Both units utilize analog to digital techniques thereby eliminating any input adjustments.

Both multi-mode and single-mode versions are available. Integral indicators are provided on both units to continuously indicate an established link, power and under and over range indications, making system troubleshooting simple.



Technical Specifications

System Bandwidth	DC to 100Hz (-3dB)
System Response Time	10 ms typical
Input/Output Levels	0 to +1 or +10 volts or 0 to 20 mA
Accuracy / Linearity	< 2.4%
Signal/Noise Ratio	60 dB minimum
Input/Output Impedance	10K ohms (voltage mode) 50 ohms (current mode)
Operating Wavelength	850, 1310 or 1550nm
Optical Loss Budget	0-13 dB (multi-mode) 0-13 dB (single-mode)
Optical Connectors	ST (multi-mode) FCPC (single-mode)
Signal Connectors	Removable terminal block for V or mA, BNC for V only
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217D)	>120,000 hours
Power Requirements*	11-24 VAC/DC @300 mA
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 Feature

- **DC Coupled**
- **Stand-alone, DIN or Rack Mountable (same unit)**
- **Protocol Conversion**
- **Link, Over/under-range and Power Indicators**
- **Multimode and Single-Mode versions available**

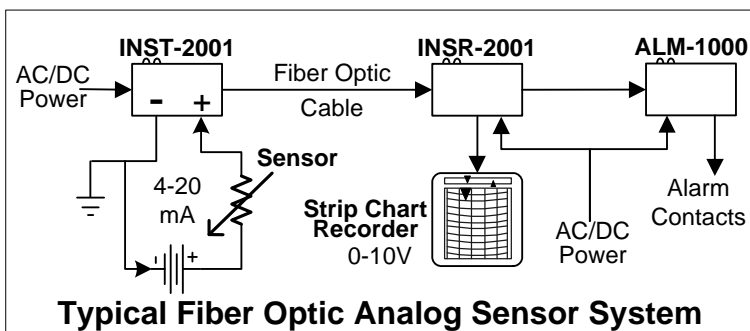
Ordering Information

Transmitter INST-2001-X
Receiver INSR-2001-X

"X" = Wavelength/Fiber
-1 = 850nm Multi-mode
-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.



Typical Fiber Optic Analog Sensor System

LuxLink®

Fiber Optic Transmission Systems

www.LuxLink.com
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