

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 industrial sensor signals (0 to +10 Volts or 0-20mA) from point-to-point using interference-free fiber optic transmission technology. Design for solid performance at a low cost. If you need increased accuracy, bandwidth or input range, see the INST/INSR-3001. For digital current loop communication, see the DX-7501.

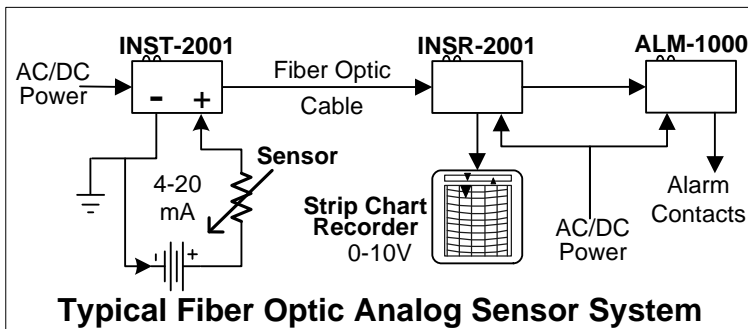
Both multi-mode and single-mode versions are available. Integral indicators are provided on both units to continuously indicate an established link, power, under and over range conditions, making system troubleshooting simple.



Technical Specifications

System Bandwidth	DC to 100Hz (-3dB)
System Response Time	10 ms
Protocols Accepted	0 to +10V, 0 to +1V or 0 to 20 mA, or
Accuracy / Linearity	< 2.4%
Signal/Noise Ratio	60 dB minimum
Impedance	10K ohms (voltage mode) 50 ohms (current mode)
Operating Wavelength	850, 1310 or 1550nm
Optical Output Power	-16 dBm (multi-mode) -16 dBm (single-mode)
Optical Loss Budget	0-13 dB (multi-mode) 0-13 dB (single-mode)
Optical Connectors	ST (multi-mode) FCPC (single-mode)
Signal Connector	Removable terminal block for V or mA BNC for V only
Operating Temperature	-35° to +75°C
Power Requirements*	11-24 VAC/DC @300ma.
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**
- **Low Cost**
- **Protocol Conversion**
- **Link, Over-range & Power Indicators**
- **Multi-mode & 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.

LuxLink™
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