

Digital Current Loop

DX-7501

For 0-20, or 30 mA Digital Current Loop Applications

The **LuxLink®** DX-7501 is a data transceiver designed to transmit and receive digital current loop signals in a wide range of diverse applications. The unit is designed to operate in simplex or full duplex modes. The DX-7501 can easily be user configured for active or passive 20 or 30 mA current loop operation and will operate continuously at all data rates from DC to 100 Kb/sec.

Both multi-mode and single-mode versions are available and installation is totally adjustment free. In addition, integral indicators are provided to continuously indicate the presence of data signals as well as the presence of operating power making system troubleshooting simple.



Technical Specifications

Data Transmission Rate	DC to 115.2 Kb/s
Protocols Supported	Current Loop 0-20mA or 30mA
Protocol modes	Active and Passive
Operating Modes	Simplex, Duplex
Rise/Fall Times (typ.)	1.0 microsecond
Operating Wavelength	850nm, 1310nm, 1550nm
Optical Loss Budget	0-15 dB (multimode) 0-18 dB (single-mode)
Optical Connectors	ST (multimode) FCPC (single-mode)
Signal Connectors	Removable Terminal Block
Operating Temperature	-35° to +75°C
Humidity	<95% non condensing
MTBF (per MIL HBK 217D)	>120,000 hours
Power Requirements*	10-24 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.

Important Features

- **DC to 100 Kb/s**
- **Fully Adjustment Free**
- **Data Signal & Power Indicators**
- **Stand-alone, DIN or Rack Mountable (same unit)**

Ordering Information

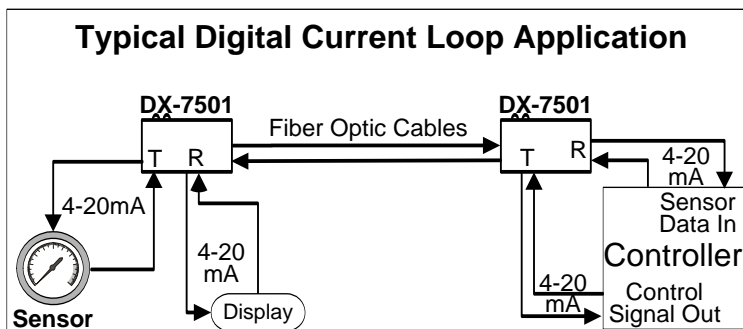
Transceiver, DX-7501-X

"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 the power supply used with the rack panel.



LuxLink®

Fiber Optic Transmission Systems

www.LuxLink.com
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