

# DC-POWERED SIGNAL CONDITIONER

## PROVIDES TRANSDUCER EXCITATION AND SELECTABLE ANALOG OUTPUTS; WORKS WITH LD320 SERIES TRANSDUCERS

**LDX-4**



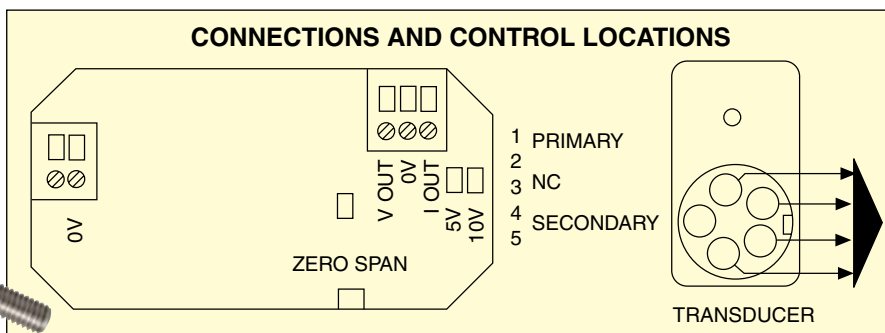
LDX-4, shown smaller than actual size.



LD320



DP2000-P digital display.



- ✓ Operates on 10 to 30 Vdc
- ✓ +5V, ±10V, or 20 mA Selectable Outputs
- ✓ Adjustable Zero and Span
- ✓ High-Accuracy Oscillator/Demodulator Circuits Provide 3V @ 5 kHz

The LDX-4 is a DC-powered signal conditioning amplifier and power supply for AC LVDTs. Its compact, rugged case can withstand industrial installations and protect laboratory-grade electronics. Complete zero and span adjustments allow use with any LVDT with an output between 45 and 450 mV/V full scale. Selectable outputs of ±5V or ±10V interface with recorders, displays, and other instruments. For the ±5V output range, a second 0 to 20 mA signal can be used to retransmit the signal over long distances.

### SPECIFICATIONS

**Supply Voltage:** 10 to 30 Vdc  
**Supply Current (Voltage Output):** 140 mA max with 10 Vdc supply voltage; 60 mA max with 30 Vdc supply voltage  
**Supply Current (Current Output):** 180 mA max with 10 Vdc supply voltage; 70 mA max with 30 Vdc supply voltage  
**Noise on Power Supply (Typical):** 20 mV p-p @ 100 kHz  
**Input Protection:** Overvoltage, reverse connection  
**Transducer Energization:** 3 Vrms @ 5 kHz  
**Transducer Range:** 45 to 450 mV/V full scale

**Output Voltage (Selectable):** ±5 Vdc or ±10 Vdc full scale

**Load Resistance:** 1 kΩ minimum

**Analog Output Current:** 20 mA full scale into 1500 Ω maximum (only with 5 V range selected)

**Offset Range:** 0 to 100%

**Gain Temperature Coefficient:** <200 ppm/°C

**Output Temperature Coefficient:** <200 ppm/°C output

**Noise:** <20 mV p-p @ 10 to 100 kHz

**Non-Linearity:** <0.1% BSL

**Temperature Range:** 0 to 60°C (-18 to 140°F)

**Weight (Approx.):** 300 g (11 oz)

**Dimensions:** 40 W x 65 H x 120 mm L (1.57 x 2.56 x 4.72")

**To Order Visit [omega.com/ldx-4](http://omega.com/ldx-4) for Pricing and Details**

| MODEL NO. | DESCRIPTION                                          |
|-----------|------------------------------------------------------|
| LDX-4     | 10 to 30 Vdc powered signal conditioner for AC LVDTs |

*Comes complete with operator's manual.*

**Ordering Example:** LDX-4, 10 to 30 Vdc powered signal conditioner for AC LVDTs.