

# AC-POWERED SIGNAL CONDITIONERS FOR AC LVDTs PROVIDE TRANSDUCER EXCITATION AND DC VOLTAGE OR CURRENT OUTPUT



DP25-E meter, \$545, see page D-24.

LDX-3A, \$485, shown smaller than actual size.

LDX-3A  
**\$485**



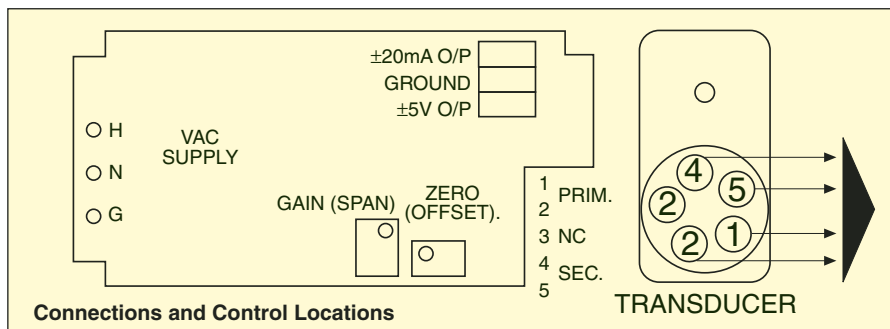
LD200, \$260, transducer, see page J-16.

DISPLACEMENT

- ✓ Works Well with LD200 and LD300 Series Transducers
- ✓ Oscillator/Demodulator Provides 0.05% FS Linearity
- ✓ Selectable Outputs of  $\pm 5$  V or  $\pm 20$  mA
- ✓ Interfaces with Standard Laboratory Instruments
- ✓ Adjustable Zero, Span, and Phase Controls
- ✓ Rugged Metal Case
- ✓ Transducer Drive: 3 Vrms, Selectable at 2.5 or 5 kHz

The LDX-3A is a compact oscillator/demodulator unit with adjustable span, zero, and phase controls for use with any OMEGA® (as well as most other manufacturers') AC LVDT transducers. The device is housed in a die-cast aluminum box that provides a high degree of mechanical and environmental protection. The LDX-3A incorporates its own regulation for operation from AC power of 120 V. A 2.7 m (9') power cable is standard.

The unit can drive outputs of 0 to  $\pm 5$  V into 10 k $\Omega$ , or  $\pm 20$  mA into 100  $\Omega$  max. This, together with a 10:1 range of span controls, makes the LDX-3A a versatile single-channel conditioner for a wide range of transducers.



## SPECIFICATIONS

### MECHANICAL

**Weight:** 400 g (14 oz)  
**Mounting:** 2 fixing straps and screws  
**Accessories:** Connector, mounting hardware  
**Dimensions:** 130 H x 96 W x 35 mm D (5.1 x 3.8 x 1.4")

### ELECTRICAL

**Power Supply:** 120/250 Vac, 50 to 60 Hz  
**Transducer Drive:** 3 Vrms at 2.5 or 5 kHz @ 20 mA  
**Loading:** 4 W max  
**Fuse Rating:** 63 mA slow blow  
**Oscillator Protection:** Open and short circuit protected

**Range of Zero Control:** 0 to 100% adjustable

**Output Voltage:**  $\pm 5$  V into 10 k $\Omega$  min

**Output Current:**  $\pm 20$  mA into 100  $\Omega$  max

**Output Protection:** Open and short circuit protected

**Output Ripple:** 10 mV p-p at 10 kHz

**Output Filter:** Second-order low pass at 250 Hz or 110 Hz

**Linearity:** 0.05% FS

**Temp Range:** 0 to 60°C (32 to 140°F)

**Temp Coefficient:**

**Zero:** 0.02% FS/°C (0.011% FS/°F)

**Span:** 0.02% FS/°C (0.011% FS/°F)

**Terminations:** 5-pin DIN connector

**MOST POPULAR MODEL HIGHLIGHTED!**

## To Order (Specify Model Number)

MODEL NO.	PRICE	DESCRIPTION
LDX-3A	\$485	AC-powered signal conditioner for AC LVDTs

Comes with complete operator's manual.

**Ordering Example:** LDX-3A, signal conditioner, \$485.

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