ϵ



LX-PA SERIES RATIOMETRIC VOLTAGE

The **UniMeasure LX-PA Series** linear position transducer with analog output is a low cost, compact alternative for use in light to moderate duty applications in dry environments. The plastic bodied device is ideal for high volume OEM situations where cost is a major consideration and in applications where small size or low weight are of paramount importance.

Model LX-PA is available in eleven different measurement ranges with a maximum range of 50" (1250 mm). The output is voltage from a potentiometric voltage divider circuit. In standard form, the electrical connections are made directly to the contacts on the potentiometer of the unit. Optional electrical cable attached to the potentiometer is available in various lengths. Standard potentiometer value is 1K ohm with optional values of 2K, 5K and 10K ohm available.

SPECIFICATIONS

General	
Measurement Ranges	See Table 1
Sensing Device	Precision Potentiometer
Resolution	
Linearity	
2", 2.8", 3.8" 4.7" ranges	±1.0% Full Scale
10" to 25" ranges	±0.5% Full Scale
30" to 50" ranges	±0.25% Full Scale
Repeatability	±0.03% Full Scale
Construction	Thermoplastic Body
Cable	Ø.018 (0.46 mm) Jacketed
Stainless Steel	
Wire Rope Tension	See Table 1

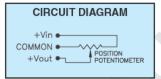
 Stainless Steel
 See Table 1

 Wire Rope Tension
 3 oz. (85 gm)

 Connections
 Solder terminals

 Dimensional Information
 See Supplemental Data¹

 Life
 Ranges to 4.7"
 1,000,000 full stroke cycles



FOOTNOTES TO SPECIFICATIONS

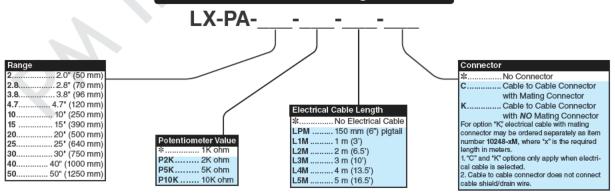
1. Supplemental Data section located at end of LX Series pages

Electrical	
Input Impedance	1000 Ω ±15%
Output Impedance	0 to 1000 Ω
Excitation Voltage (Ve)	25 Volts max. AC or DC
Environmental	
Operating Temperature	-25°C to 75°C
Storage Temperature	-50°C to 80°C
Operating Humidity	95 R.H. max. non-condensing
Vibration	15 G's 0.1 ms max.
Shock	50 G's 0.1 ms max.
Ingress Protection	NEMA 1, IP-40

TABLE 1

MODEL	RAI (inch)	NGE (mm)	NOMINAL OUTPUT (mV/in/Ve)(mV/mm/Ve)		NOMINAL WIRE ROPETENSION (OZ) (N)	
LX-PA-2	2	50	469	18.5	16	4.4
LX-PA-2.8	2.8	70	341	13.4	14	3.9
LX-PA-3.8	3.8	96	258	10.1	11	3.1
LX-PA-4.7	4.7	120	207	8.1	8	2.2
LX-PA-10	10	250	88	3.5	16	4.4
LX-PA-15	15	380	64	2.5	14	3.9
LX-PA-20	20	500	49	1.9	11	3.1
LX-PA-25	25	625	39	1.5	8	2.2
LX-PA-30	30	750	32	1.3	14	3.9
LX-PA-40	40	1000	24	1.0	11	3.1
LX-PA-50	50	1250	20	8.0	8	2.2

Model Number Configuration



NOTE

*—Asterisk items are standard configuration.
 No option designator is required.

2) Shaded options available at additional cost.

Example LX-PA-20-L1M

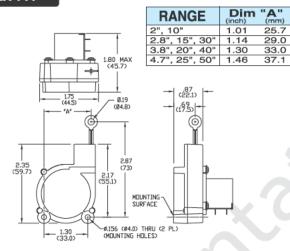
UniMeasure 4175 SW Research Way, Corvellis, DR 97333 | Tel: 541-757-3158 | Fax: 541-757-0858 | Email: sales@unimeasure.com



LX SERIES SUPPLEMENTAL DATA

DIMENSIONAL INFORMATION 4

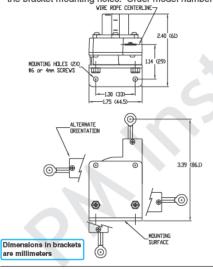
LX-PA



Dimensions in brackets are millimeters

ACCESSORY-10346 RIGHT ANGLE MOUNTING BRACKET

The Right Angle Mounting Bracket serves as a base for mounting the LX transducer perpendicular to a surface. The transducer may be mounted in any of four different wire rope exit orientations when mounted on the outside of the bracket (see figure) or any of three orientations when placed above the bracket mounting holes. Order model number: 10346.



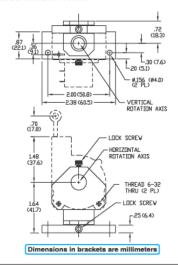




With Transducer Mounted

ACCESSORY-10156 TWO AXIS SWIVEL BASE

With a capability of 360° rotation about the vertical axis and 245° rotation about the horizontal axis, the 10156 Two Axis Swivel Base allows easy setup of the LX-PA or the LX-EP transducer. The axes may be locked in place after the transducer is oriented. Ideal for quick setups. Order model number: 10156.

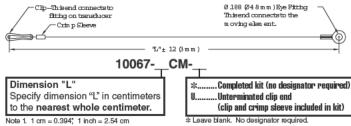






ACCESSORY-10067 AUXILIARY WIRE ROPE EXTENSION KIT

The auxiliary wire rope extension may be used to facilitate mounting the transducer remotely from the measurement point. The clip on the extension attaches to the eye fitting on the transducer. The eye fitting on the opposite end, which is identical to the fitting on the transducer, mounts to the moving element. The extension kit is also available with the clip end unterminated for situations where it is more convenient to size the wire rope length during installation. Clip and crimp fitting are included with the unterminated version.



Milessure 4175 SW Research Way, Corvallis, OR 97333 | Tel: 541-757-3158 | Fax: 541-757-0858 | Email: sales@unimeasure.com

Note 2. Shortest length "L" is 5 cm (approximately 2").