JX-P510 SERIES

0 to 5, 0 to 10, ±5, ±10 VDC ANALOG OUTPUT

The JX-P510 series transducer offers a voltage output with wide adjustability to give a 0 to 5, 0 to 10, ±5 or ±10 VDC output. The device may be powered with any voltage in the range of 4.9 to 30 VDC. Zero and span adjustment potentiometers are accessible by removing two sealing screws in the rear of the transducer housing. With the zero position set anywhere within the first 30% of total travel, the span may be adjusted to give a full 0 to 5 or 0 to 10 VDC output with the span set anywhere within the last 20% of travel. Alternatively, the zero position may be set anywhere between 40% and 60% of full travel to give an output of ±5 or ±10 VDC with the span set between 80% to 100% of the longest travel from the zero position.

The JX-P510 series measuring transducer is a low cost device for use in moderate duty applications in hostile wet or dry environments. The chemical resistant thermoplastic case of the transducer provides IP-65 (NEMA

4X) ingress protection for applications where exposure to washdown, rain, oil and other liquids may occur. An integral dust wiper prevents the entry of debris as the wire rope is retracted. The electrical connection methodology includes an optional sealed bulkhead fitting with multi-conductor electrical cable or an optional connector with mating connector. As a convenience, optional electrical connection locations on the transducer body are offered. The wire rope exit direction may be specified at time of order or may be user adjusted at time of installation.

SPECIFICATIONS

GENERAL	
Measurement Range	See Range Table below
Sensing Device	Precision Potentiometer
Resolution	Essentially Infinite
Linearity	
2", 2.8", 3.8", 4.7" Ranges	±1.0% Full Scale
10" to 25" Ranges	±0.5% Full Scale
30" to 80" Ranges	±0.25% Full Scale
Repeatability	±0.02% Full Scale
Construction	
Wire Rope	Ø.018 (0.46 mm) Jacketed Stainless Stee
Wire Rope Tension	See Supplemental Data ^[1]
Weight	6.7 oz. (190 gm)
Connections	Electrical cable, or plastic connector
Life	•
Ranges to 4.7"	2,000,000 full stroke cycles
Ranges 10" to 25"	500,000 full stroke cycles
Ranges 30" to 80"	250,000 full stroke cycles
ENVIRONMENTAL	
Operating Temperature	25°C to 75°C
Storage Temperature	50°C to 80°C
Operating Humidity	100% R.H. NEMA 4,
	90% R.H. non-condensing NEMA 12
Vibration	15 G's 0.1 ms max.
Shock	50 G's 0.1 ms max
Ingress Protection	IP-65 (NEMA 4X) or IP-52 (NEMA 12)
5	

FLECTRICAL Output .. 0 to 5, 0 to 10, ±5, ±10 VDC Excitation Voltage 4.9 to 30 VDC . 25 mA max **Excitation Current** Output Impedance..... Output Load 5KO min ADJUSTMENT RANGE-0 TO 5 OR 0 TO 10 VDC 0 to 30% of Range Zero... . 80% to 100% of Range ADJUSTMENT RANGE-±5 OR ±10 VDC 40% to 60% of Range Zero. Span.. . 80% to 100% of Longest Possible Travel from Zero Position Reversed Polarity **ZERO & SPAN ACCESS**

FOOTNOTES TO SPECIFICATIONS

Supplemental Data section located at end of JX Series pages.

MODEL NUMBER CONFIGURATION

JX-P510-

















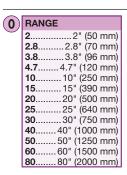
INGRESS PROTECTION

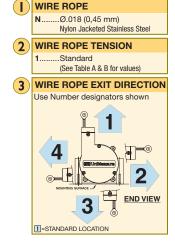


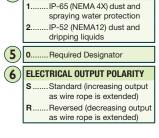
Basic Configuration

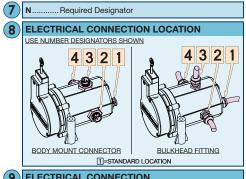
(FOR ALL RANGES)

JX-P510-50-N11-20S-N1C







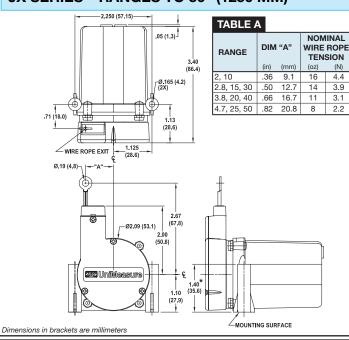


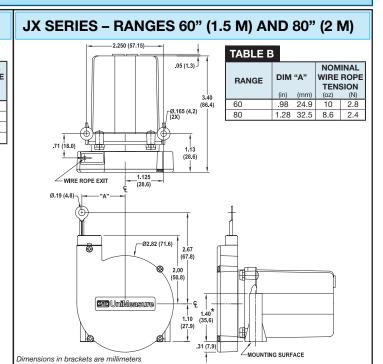




DIMENSIONAL INFORMATION

JX SERIES - RANGES TO 50" (1250 MM)





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.

