The UniMeasure JX-P420 series linear position 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 NEMA 4 (IP-65) ingress protection for applications where exposure to washdown, rain, oil and other liquids may occur. The sealed case is achieved through the use of o-rings and a low friction shaft seal. An integral dust wiper insures that the wire rope stays clear of debris as it is extracted and retracted. The standard electrical connection includes a sealed bulkhead fitting and multi-conductor electrical cable. An optional connector and mating connector are also available. As a convenience, optional connector 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.



The JX-P420 series transducer is a loop powered device with a 4 to 20 mA current output that requires a two wire connection. The transducer, power supply, and current monitor are connected in series. Zero and span adjustment potentiometers are accessible by removing two sealing screws in the rear of the transducer housing. Zero and span allow for adjustment for a full 4 to 20 mA output at between 50% and 100% of maximum linear travel.

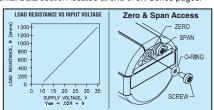
	SPECII
General	
Measurement Range	See Range Table below
Sensing Device	Precision Potentiometer
Resolution	Essentially Infinite
Linearity	•
2", 2.8", 3.8", 4.7" ranges	±1.0% Full Scale
10" to 25" ranges	±0.5% Full Scale
30" to 80" ranges	±0.25% Full Scale
Repeatability	±0.02% Full Scale
Construction	Thermoplastic Body
Wire Rope	Ø.018 (0.46 mm) Jacketed Stainless Steel
Wire Rope Tension	.See Supplemental Data <sup>1</sup>
Weight	6.7 oz. (190 gm)
Connections	Electrical cable, or plastic connector
Life	
Ranges to 4.7"	
Ranges 10" to 25"	
Ranges 30" to 80"	250,000 full stroke cycles
Environmental	
Operating Temperature	
Storage Temperature	
Operating Humidity	
	90% R.H. non-condensing NEMA 12
Vibration	15 G's 0.1 ms max.

1) Shaded options available at additional cost.

CIFICAT	TIONS —	
	Shock	50 G's 0.1 ms max.
	Ingress Protection	NEMA 4X (IP-65) or NEMA 12 (IP-52)
	Electrical	
	Output	4 to 20 mA
	Load Resistance (Total Loop)	See Graph Below
	Excitation Voltage	9 to 35 VDC
	Minimum Supply Voltage	(.02 x Load Res.) + 9 VDC
	Insulation Resistance	100 Megohms min. at 100 VDC
	Zero Set Adjustment Range	0 to 30% of Range
	Span Set Adjustment Range	80% to 100% of Range
Steel	Protection	Fused & Reversed Polarity

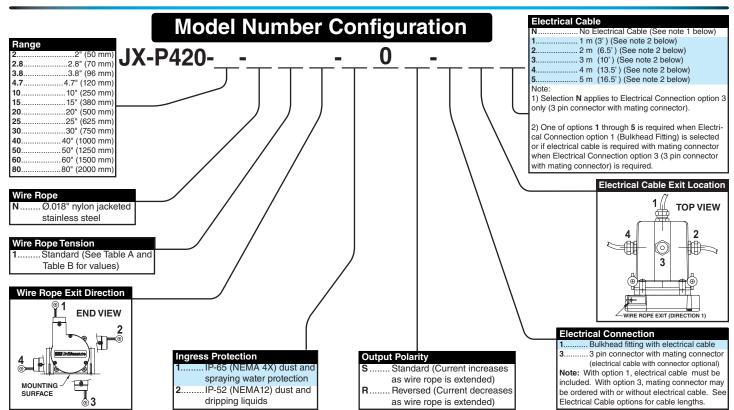
## FOOTNOTES TO SPECIFICATIONS

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

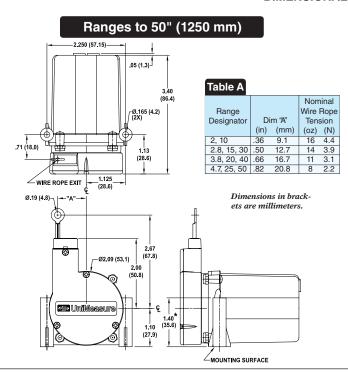


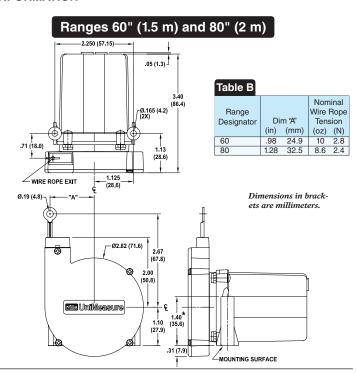
Example

JX-P420-25-N11-20S-31N



## DIMENSIONAL INFORMATION





## 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. The clip and crimp sleeve are included as loose parts for user termination.

Dimension "L"
Specify dimension "L" in centimeters to the nearest whole centimeter.

Note 1. 1 cm = 0.394", 1 inch = 2.54 cm Note 2. Shortest length "L" is 5 cm (approximately 2")