

# LP402 Series

Dual Output Sensor, Loop Power, 4-20 mA, Velocity, Dynamic Acceleration



PROTECTION & RELIABILITY INSTRUMENTS



## Product Features

Offers Continuous Protection Plus Dynamic Outputs for Diagnostics

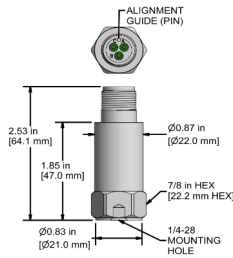
IEPE Sensor Power Not Required

- ▶ 4-20 mA Velocity and Acceleration Outputs
- ▶ Analytical Tool
- ▶ Outputs to PLC, DCS, SCADA

### LP402-XXX-1B

3 Pin Connector

Connector Pin	Polarity
A	(+) Loop Power mA Output
B	(-) Common
C	(+) Dynamic Acceleration Output

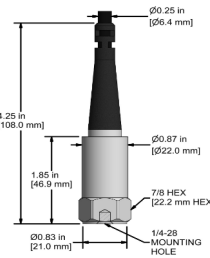


Built To Order

### LP402-XXX-2C

Integral Cable

Conductor	Polarity
Red	(+) Loop Power mA Output
Black	(-) Common
White	(+) Dynamic Acceleration Output
Shield	Cable Drain Wire

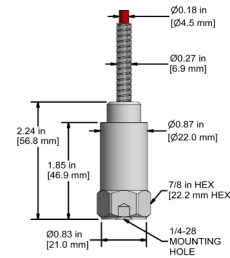


Built To Order

### LP402-XXX-3C

Armored Integral Cable

Conductor	Polarity
Red	(+) Loop Power mA Output
Black	(-) Common
White	(+) Dynamic Acceleration Output
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	LP402	M/LP402	<b>Physical</b>		
Sensitivity ( $\pm 10\%$ )		100mV/g	Sensing Element	PZT Ceramic	
Frequency Response ( $\pm 3\text{dB}$ )	120-900,000 CPM		Sensing Structure	Shear Mode	
Tolerance: 4 mA		( $\pm 5\%$ )	Weight	3.7 oz	105 grams
Tolerance: 20 mA		( $\pm 10\%$ )	Case Material	316L Stainless Steel	
<b>Electrical</b>			Mounting	1/4-28	
Settling Time	<60 Seconds		Connector (Non-Integral)	3 Pin MIL-C-5015	
Voltage Source (IEPE)	12-28 VDC		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Case Isolation	>10 <sup>8</sup> ohm		Mounting Hardware	1/4-28 Stud M6x1 Adapter Stud	
<b>Environmental</b>			Calibration Certificate	CA10 (dynamic)	
Temperature Range	-40 to 185°F	-40 to 85°C			
Electromagnetic Sensitivity	CE				
Sealing	Welded, Hermetic				
Submersible Depth	200 ft.	60 m			

## Ordering Information

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<b>Stud Type</b> Blank = 1/4-28 M = M6x1	<b>Measurement Range</b> 0 = 0-0.5 IPS (0-12.7 mm/sec) 1 = 0-1 IPS (0-25.4 mm/sec) 2 = 0-2 IPS (0-50.8 mm/sec) 3 = 0-0.4 IPS (0-10 mm/sec) 4 = 0-0.8 IPS (0-20 mm/sec)	<b>Range Type</b> P = Peak R = RMS	<b>Frequency Range <math>\pm 3</math> dB</b> 1 = 600-60000 CPM (10-1000 Hz) 2 = 180-150000 CPM (3-2500 Hz)	<b>Style</b> 1E = 2 Pin MIL C-5015 2E = Integral Cable 3E = Armor Jacket	<b>Integral Options</b> <table border="1"> <thead> <tr> <th>Armor Length (Integral)</th> <th>Cable Length (Integral)</th> </tr> </thead> <tbody> <tr> <td>010 = 10 ft/3 m</td> <td>010 = 10 ft/3 m</td> </tr> <tr> <td>020 = 20 ft/6 m</td> <td>020 = 20 ft/6 m</td> </tr> <tr> <td>030 = 30 ft/9 m</td> <td>030 = 30 ft/9 m</td> </tr> <tr> <td>050 = 50 ft/15 m</td> <td>050 = 50 ft/15 m</td> </tr> <tr> <td>100 = 100 ft/30 m</td> <td>100 = 100 ft/30 m</td> </tr> </tbody> </table>		Armor Length (Integral)	Cable Length (Integral)	010 = 10 ft/3 m	010 = 10 ft/3 m	020 = 20 ft/6 m	020 = 20 ft/6 m	030 = 30 ft/9 m	030 = 30 ft/9 m	050 = 50 ft/15 m	050 = 50 ft/15 m	100 = 100 ft/30 m	100 = 100 ft/30 m
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100 = 100 ft/30 m	100 = 100 ft/30 m																	
*Custom Lengths Available Upon Request																		

Lifetime Warranty on Materials & Workmanship

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