

# AC102 Series

Multi-Purpose Accelerometer, 100 mV/g, Top Exit, 2 Pin MIL Connector



VIBRATION ANALYSIS HARDWARE



## Product Features

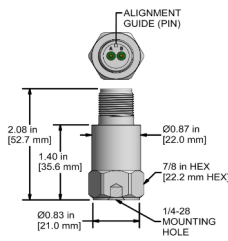
Affordably Priced, Hermetically Sealed Sensors  
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶  $\pm 50$  g, peak Dynamic Range
- ▶ Standard 2 Pin MIL Connection or Integral Cable

### AC102-1A

2 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common

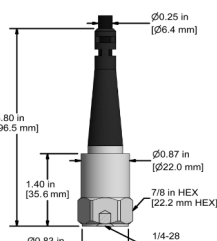


Stock Product

### AC102-2C

CB103 Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

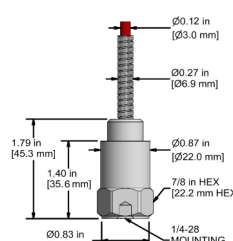


Built To Order

### AC102-3C

CB206 Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire

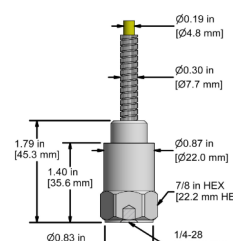


Built To Order

### AC102-6C

CB611 Heavy Duty Armored Integral Cable

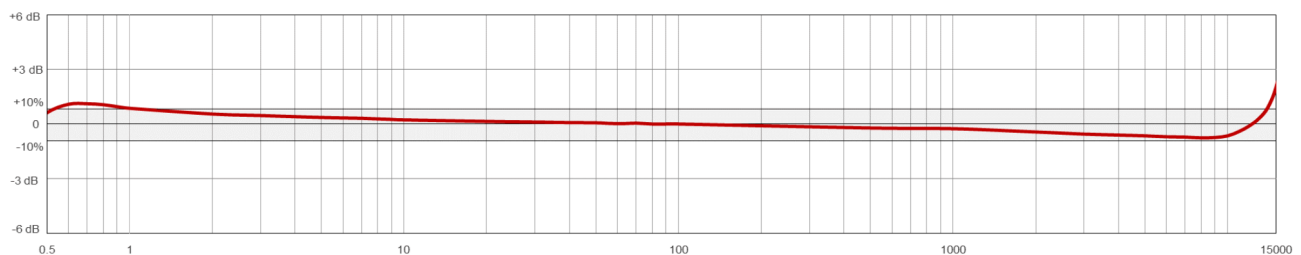
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC102	M/AC102	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )		100 mV/g	Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 3$ dB)	30-900,000 CPM	0.5-15000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ( $\pm 10\%$ )	120-600,000 CPM	2.0-10000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		$\pm 50$ g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			Submersible Depth	200 ft.	60 m
Settling Time		<2.5 seconds	<b>Physical</b>		
Voltage Source (IEPE)		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		14 $\mu$ g/ $\sqrt$ Hz	Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz		2.3 $\mu$ g/ $\sqrt$ Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		2 $\mu$ g/ $\sqrt$ Hz	Mounting		1/4-28
Output Impedance		<100 ohm	Connector (Non-Integral)		2 Pin MIL-C-5015
Bias Output Voltage		10-14 VDC	Resonant Frequency	1,380,000 CPM	23000 Hz
Case Isolation		>10 <sup>8</sup> ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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