

AC102 Series

Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

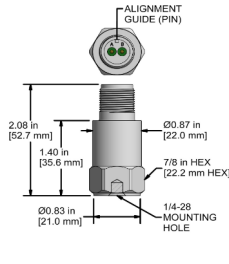
Affordably Priced, Hermetically Sealed Sensors

Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
 - ▶ ± 80 g, peak Dynamic Range
 - ▶ Standard 2 Pin MIL Connection or Integral Cable
- Note: Integral Cable Options are only for Permanent Monitoring Applications

AC102-1A 2 Pin Connector

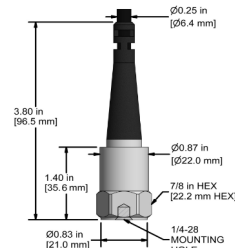
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC102-2C CB103 Integral Cable

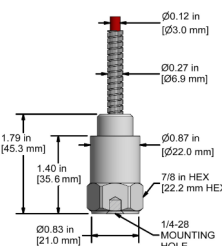
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC102-3C CB206 Armored Integral Cable

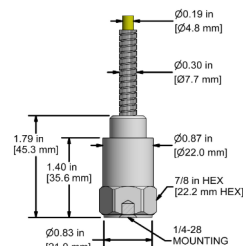
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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	<u>Environmental</u>		
Sensitivity ($\pm 10\%$)	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (± 3 dB)	30-900,000 CPM	0.5-15,000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response ($\pm 10\%$)	120-600,000 CPM	2.0-10,000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak		Sealing	Welded, Hermetic	
<u>Electrical</u>			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		<u>Physical</u>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	14 μ g/ \sqrt Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2.3 μ g/ \sqrt Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz	2 μ g/ \sqrt Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting	1/4-28	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,380,000 CPM	23,000 Hz
			Mounting Torque	2 to 5 ft. lbs	2.7 to 6.8 Nm