

AC102 Series

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



Product Features

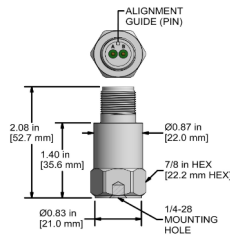
Affordably Priced, Hermetically Sealed Sensors
Perfect for Thousands of Applications

- ▶ 100 mV/g Sensitivity
- ▶ ± 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

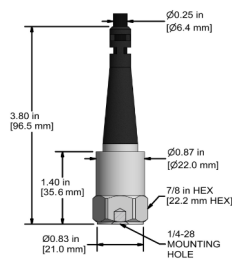


Stock Product

AC102-2C

Integral Cable

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

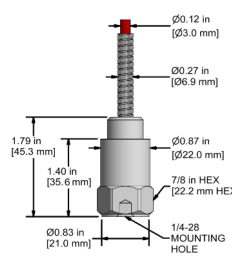


Built To Order

AC102-3C

Armored Integral Cable

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

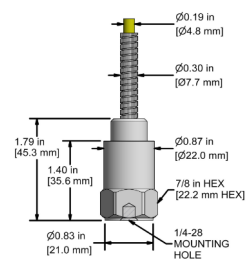


Built To Order

AC102-6C

Heavy Duty Armored Integral Cable

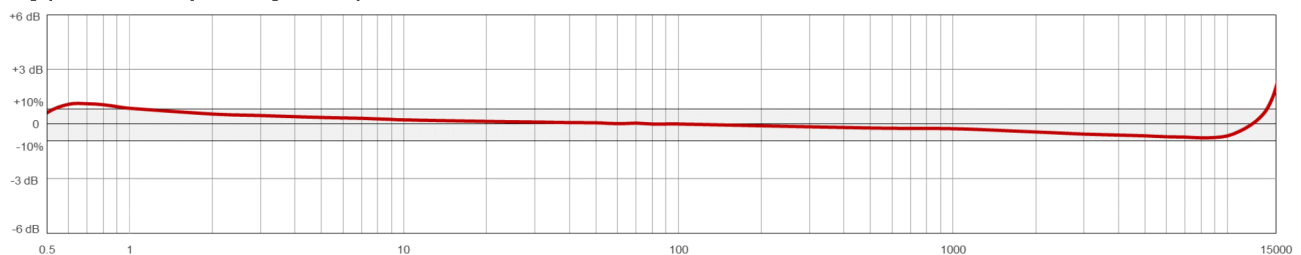
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



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	0.5-15000 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	± 50 g. peak		Sealing	Welded, Hermetic	
<u>Electrical</u>			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		<u>Physical</u>		
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 $\mu\text{g}/\sqrt{\text{Hz}}$		Weight	3.2 oz	90 grams
Spectral Noise @ 100 Hz	2.3 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 $\mu\text{g}/\sqrt{\text{Hz}}$		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 ⁸ 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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