

# AC102 Series

Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Product Features

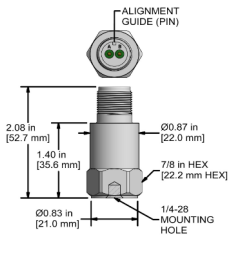
CTC's Best Selling, Multi-Purpose Sensor Ideally Suited for Thousands of Applications

Qualifies for Free Annual Recalibration

- ▶ Wide frequency response range and ±80 g dynamic range enables the user to identify bearing faults at both slower and higher speeds

### AC102-1A 2 Pin Connector

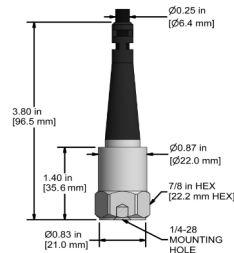
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC102-2C CB103 Integral Cable

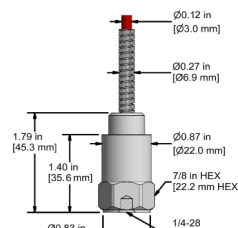
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC102-3C CB206 Armored Integral Cable

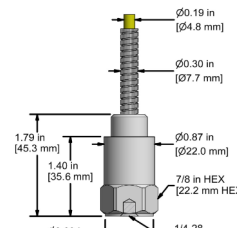
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC102-6C CB611 Heavy Duty Armored Integral Cable

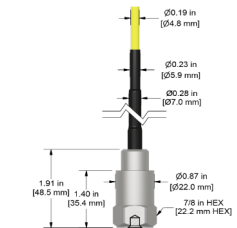
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC102-6N CB111 FEP Jacketed 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/ or M8/AC102	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	30-900,000 CPM	0,5-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	120-600,000 CPM	2,0-10000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 80 g, peak *Vsource ≤ 5V, 12Vbias		Sealing	Welded, Hermetic	
<b>Electrical</b>			Submersible Depth	200 ft.	60 m
Settling Time	<2.5 seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		<b>Physical</b>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	14 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Weight	3.2 oz	90 grams
Spectral Noise @ 1000 Hz	2 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 <sup>8</sup> ohm				