

# AC150 Series

Low Cost Accelerometer, Top Exit Connector / Cable, 100 mV/g



VIBRATION ANALYSIS HARDWARE



## Product Features

Low Cost Accelerometer - Perfect for Permanent Mounting

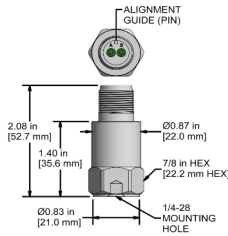
Excellent Choice for Budget Concious Data Collection

- ▶ ±50 g, Peak Dynamic Range
- ▶ 1-10000 Hz (60-600,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable

### AC150-1A

2 Pin Connector

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

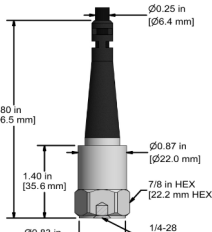


Stock Product

### AC150-2C

Integral Cable

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

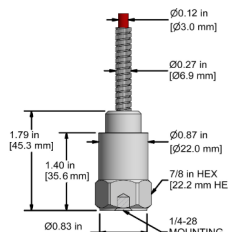


Built To Order

### AC150-3C

Armored Integral Cable

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

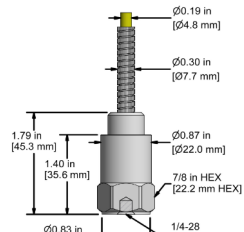


Built To Order

### AC150-6C

Heavy Duty Armored Integral Cable

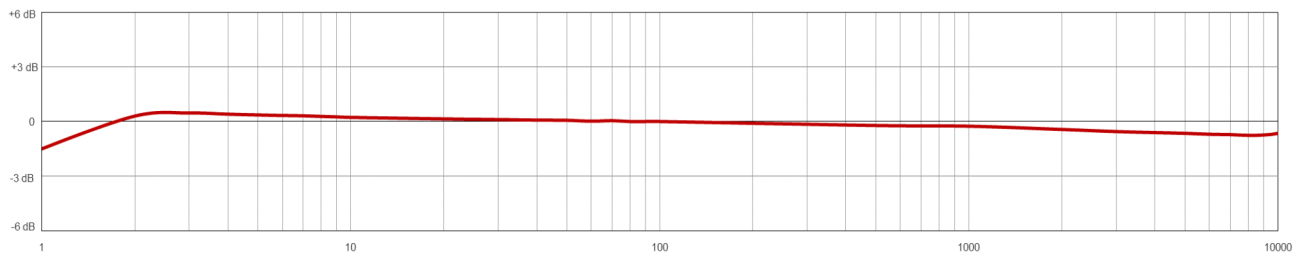
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC150	M/AC150	<b>Environmental</b>		
Sensitivity (+20%)	100 mV/g		Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	60-600,000 CPM	1.0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 50 g, peak		Electromagnetic Sensitivity	CE	
<b>Electrical</b>			Sealing	Welded, Hermetic	
Settling Time	<2.5 seconds		Submersible Depth	200 ft.	60 m
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	1/4-28	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 <sup>8</sup> ohm		Resonant Frequency	1,380,000 CPM	23000 Hz
			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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