

# AC150 Series

Low Cost, Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



## Product Features

Low Cost Accelerometer - Perfect for Permanent Mounting

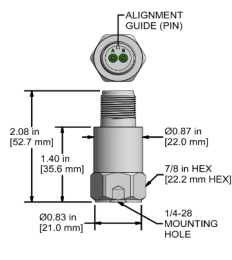
Excellent Choice for Budget Conscious Data Collection

- ▶ ± 80 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

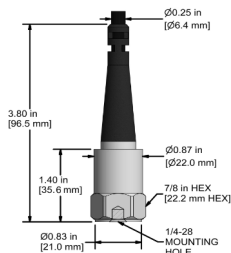


Stock Product

### AC150-2C

CB103 Integral Cable

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

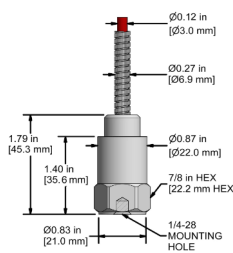


Built To Order

### AC150-3C

CB206 Armored Integral Cable

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

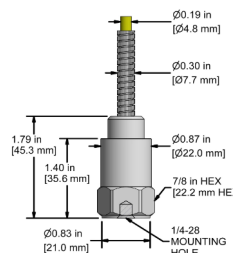


Built To Order

### AC150-6C

CB611 Heavy Duty Armored Integral Cable

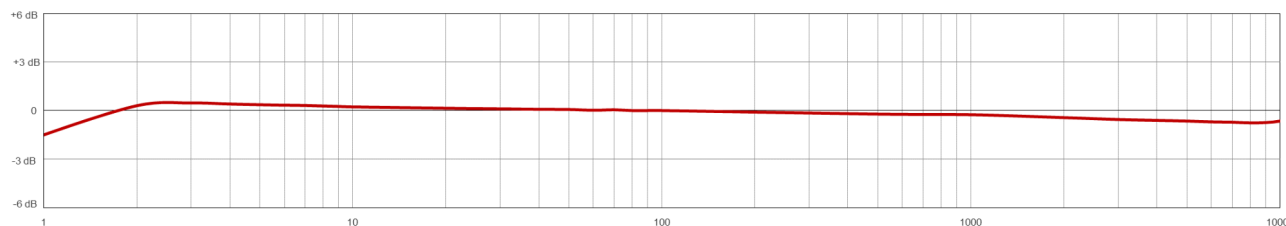
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC150	M/ or M8/AC150	<b>Environmental</b>		
Sensitivity (±15%)	100 mV/g		Operating 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	± 80 g, peak		Electromagnetic Sensitivity	CE	
	*Vsource ≥ 22V, 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		Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

## Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

www.ctconline.com | sales@ctconline.com | 585-924-5900