

# AC204 Series

Low Frequency Accelerometer, Side Exit 2 Pin Connector, 100 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



## Product Features

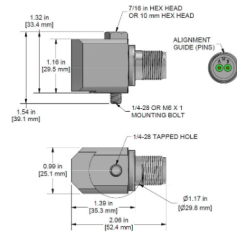
Designed for Low-Speed Rotors, Wind Turbine Main Bearings, Gear Box Inputs, and May Also be Used for High Frequency Detection

May be Used With Any Application That Requires Low and High Frequency Measurements

- ▶ 0.1 Hz to 8 kHz Frequency Response (± 3dB)
  - ▶ Standard 2 Pin MIL Connection or Integral Cable
- Note: Integral Cable Options are Only for Permanent Monitoring Applications

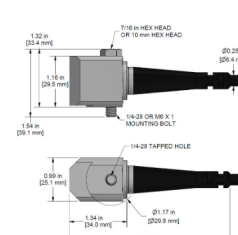
### AC204-1D 2 Pin Connector

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



### AC204-2D CB103 Integral Cable

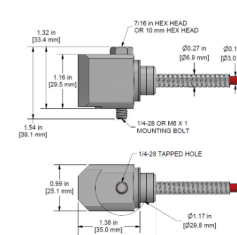
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC204-3D CB206 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	AC204	M/AC204	<b>Environmental</b>		
Sensitivity (±10%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection	5000 g, peak	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
<b>Electrical</b>			Sealing	Welded, Hermetic	
Settling Time	2 seconds		SIL Rating	SIL 2	
Voltage Source	18-30 VDC		<b>Physical</b>		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.3 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	5.7 ounces	162 grams
Spectral Noise @ 1000 Hz	0.1 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	< 100 ohm		Connector (Non-Integral)	2 Pin MIL-C-5015	
Bias Output Voltage	10-14 VDC		Resonant Frequency	1,020,000 CPM	17000 Hz
Case Isolation	> 10 <sup>8</sup> ohm		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

## Typical Frequency Response

