

AC214 Series

Low Frequency Accelerometer, Top Exit 2 Pin Connector, 1,000 mV/g, ±5%



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.

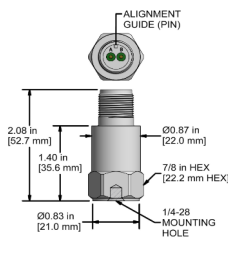
May be used with any application that requires low and high frequency measurements.

- ▶ 1000 mV/g Sensitivity
- ▶ 0.1 Hz to 10 kHz Frequency Response (± 3dB)
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC214-1D 2 Pin Connector

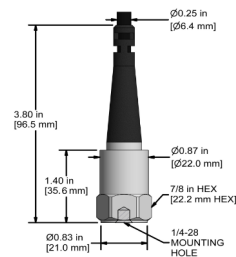
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC214-2D CB103 Integral Cable

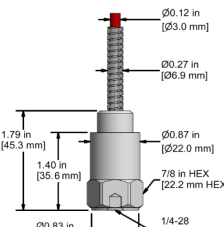
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC214-3D CB206 Armored Integral Cable

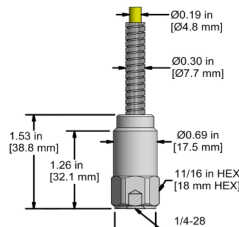
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC214-6D CB611 Heavy Duty Armored Integral Cable

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



Built To Order

Specifications	Standard	Metric
Part Number	AC214	M/ or M8/AC214
Sensitivity (±5%)	1000 mV/g	
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz
Frequency Response (±10%)	18-480,000 CPM	0,3-8000 Hz
Dynamic Range	± 7 g, peak *Vsource ≥ 22V, 12Vbias	
Settling Time	< 2 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	1.3 µg/√Hz	
Spectral Noise @ 100 Hz	0.2 µg/√Hz	
Spectral Noise @ 1000 Hz	0.1 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	> 10 ⁸ ohm	

Electrical

Specifications	Standard	Metric
<u>Environmental</u>		
Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Maximum Shock Protection	5000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
SIL Rating	SIL 2	
<u>Physical</u>		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.25 oz	92 g
Case Material	316L Stainless Steel	
Mounting Thread	1/4-28 Blind Tapped Hole	
Connector (Non-Integral)	2 Pin MIL-C-5015	