

AC214 Series

Low & High Frequency Accelerometer, Top Exit Connector, 1000 mV/g



VIBRATION ANALYSIS HARDWARE

REGULATORY APPROVALS



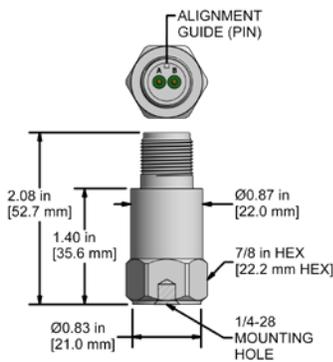
PRODUCT FEATURES

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.

AC214-1D 2 Pin Connector

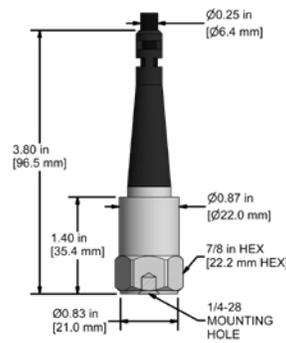
Connector Pin	Polarity
A	(+) Signal / Power
B	(-) Common



STOCK PRODUCT

AC214-2D Integral Cable

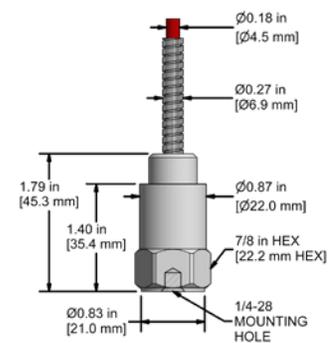
Conductor	Polarity
Red	(+) Signal / Power
Black	(-) Common
Shield	Cable Drain Wire



BUILD TO ORDER

AC214-3D Armored Integral Cable

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

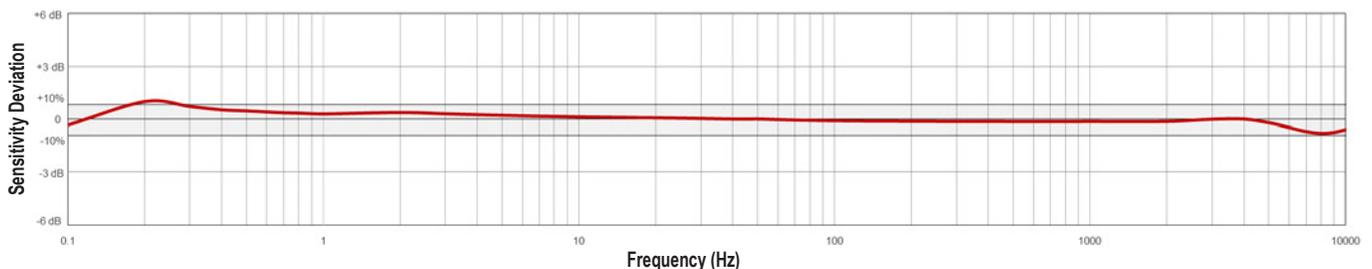


BUILD TO ORDER

Specifications	Standard	Metric
Part Number	AC214	M/AC214
Vibration		
Sensitivity (± 5%)	1000 mV/g	
Frequency Response (± 3 dB)	6 CPM to 600 kCPM	0.1 Hz to 10 kHz
Frequency Response (± 10%)	18 CPM to 480 kCPM	0.3 Hz to 8 kHz
Dynamic Range	± 7 g, peak	
Electrical		
Settling Time	< 2 seconds	
Voltage Source (IEPE)	18 Vdc to 30 Vdc	
Constant Current Excitation	2 mA to 10 mA	
Spectral Noise @ 10 Hz	1.3 µg/√Hz	
Spectral Noise @ 100 Hz	0.2 µg/√Hz	
Spectral Noise @ 1 kHz	0.1 µg/√Hz	
Output Impedance	< 100 ohm	
Bias Output Voltage	10 Vdc to 14 Vdc	
Case Isolation	> 10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58°F to 250°F	-50°C to 121°C
Maximum Shock Protection	5 kg, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic (IP68)	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.25 ounces	92 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1020 kCPM	17 kHz
Mounting Torque	2 ft-lb to 5 ft-lb	2.7 N-m to 6.8 N-m
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

TYPICAL FREQUENCY RESPONSE



UNCONDITIONAL LIFETIME WARRANTY

TOLL-FREE: 800.999.5290

www.CTOnline.com