

AC214 Series

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



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.

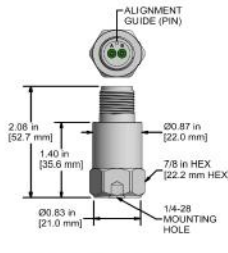
- ▶ 1000 mV/g Sensitivity
- ▶ 0.1 Hz to 10 kHz Frequency Response ($\pm 3\text{dB}$)
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC214-1D

2 Pin Connector

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

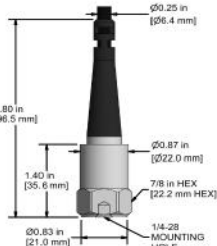


Stock Product

AC214-2D

CB103 Integral Cable

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

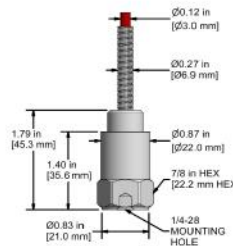


Built To Order

AC214-3D

CB206 Armored Integral Cable

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

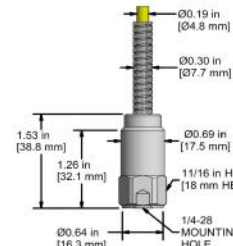


Built To Order

AC214-6D

CB611 Heavy Duty Armored Integral Cable

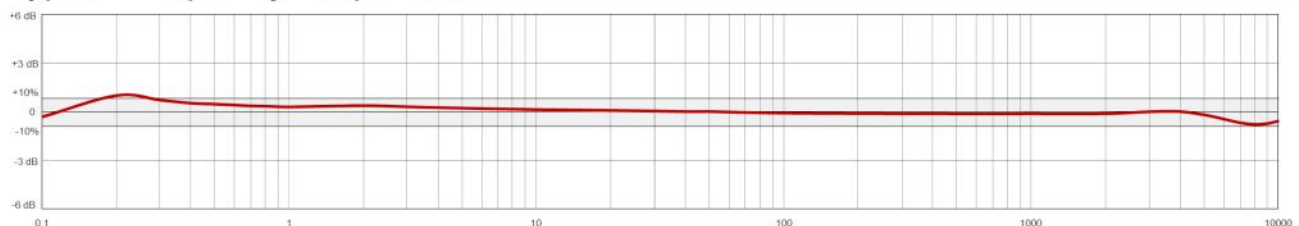
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC214	M/AC214	Environmental		
Sensitivity ($\pm 5\%$)		1000 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 3\text{dB}$)	6-600,000 CPM	0.1-10000 Hz	Maximum Shock Protection		5000 g, peak
Frequency Response ($\pm 10\%$)	18-480,000 CPM	0.3-8000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 7 g, peak	Sealing		Welded, Hermetic
Electrical			SIL Rating		SIL 2
Settling Time		< 2 seconds	Physical		
Voltage Source (IEPE)		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		1.3 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	3.25 oz	92 g
Spectral Noise @ 100 Hz		0.2 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		0.1 $\mu\text{g}/\sqrt{\text{Hz}}$	Mounting Thread		1/4-28 Blind Tapped Hole
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		> 10^8 ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware Supplied	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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AC215 Series

Low Frequency Accelerometer, Side 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.

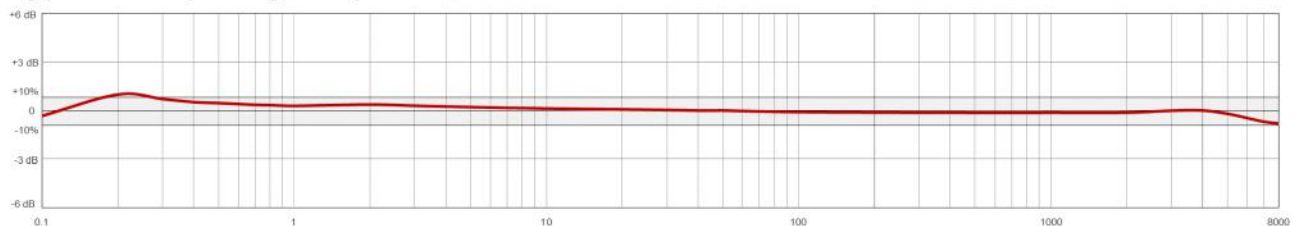
- ▶ 1000 mV/g Sensitivity
- ▶ 0.1 Hz to 8 kHz Frequency Response (± 3dB)
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC215-1D 2 Pin Connector	AC215-2D CB103 Integral Cable	AC215-3D CB206 Armored Integral Cable	AC215-6D CB611 Heavy Duty Armored Integral Cable																														
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Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC215	M/AC215	Environmental		
Sensitivity (±5%)		1000 mV/g	Operating Temperature Range	-58 to 250°	-50 to 121°C
Frequency Response (±3dB)	6-480,000 CPM	0,1-8000 Hz	Maximum Shock Protection		5000 g, peak
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 7 g, peak	Sealing		Welded, Hermetic
Electrical			SIL Rating		SIL 2
Settling Time		< 2 seconds	Physical		
Voltage Source (IEPE)		18-30 VDC	Sensing Element		PZT Ceramic
Constant Current Excitation		2-10 mA	Sensing Structure		Shear Mode
Spectral Noise @ 10 Hz		1.3 µg/√Hz	Weight	5.7 oz	162 g
Spectral Noise @ 100 Hz		0.2 µg/√Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		0.1 µg/√Hz	Connector (Non-Integral)		2 Pin MIL-C-5015
Output Impedance		< 100 ohm	Resonant Frequency	1,020,000 CPM	18000 Hz
Bias Output Voltage		10-14 VDC	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation		> 10 ⁸ ohm	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

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