

AC215 Series

Low Frequency Accelerometer, Side 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.

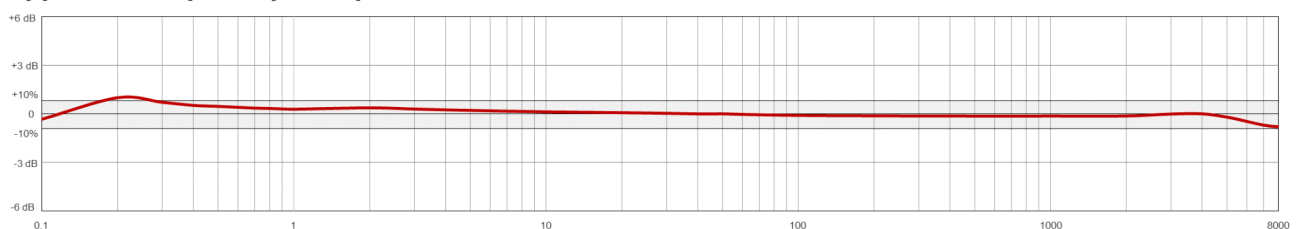
- ▶ 1000 mV/g Sensitivity
- ▶ 0.1 Hz to 8 kHz Frequency Response ($\pm 3\text{dB}$)
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

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 ($\pm 5\%$)		1000 mV/g	Operating Temperature Range	-58 to 250°	-50 to 121°C
Frequency Response ($\pm 3\text{dB}$)	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection		5000 g, peak
Frequency Response ($\pm 10\%$)	36-180,000 CPM	0.6-3000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		± 7 g, peak	Sealing		Welded, Hermetic
		*Vsource $\geq 22\text{V}$, 12Vbias	SIL Rating		SIL 2
Electrical			Physical		
Settling Time		< 2 seconds	Sensing Element		PZT Ceramic
Voltage Source (IEPE)		18-30 VDC	Sensing Structure		Shear Mode
Constant Current Excitation		2-10 mA	Weight	5.7 oz	162 g
Spectral Noise @ 10 Hz		1.3 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
Spectral Noise @ 100 Hz		0.2 $\mu\text{g}/\sqrt{\text{Hz}}$	Connector (Non-Integral)		2 Pin MIL-C-5015
Spectral Noise @ 1000 Hz		0.1 $\mu\text{g}/\sqrt{\text{Hz}}$	Resonant Frequency	1,020,000 CPM	18000 Hz
Output Impedance		< 100 ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage		10-14 VDC	Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
Case Isolation		> 10 ⁸ ohm	Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty & Free Annual Recalibration Service

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