AC212 Series

Low & High Frequency Accelerometer, Top Exit Connector, 250 mV/g

**Actual Product Size Shown**

Product Features

Designed for low speed Rotors, Wind Turbine Main Bearings, and Gear Box Inputs, but can also be used for High Frequency Detection.

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

· *250 mV/g Sensitivity, ±10% Sensitivity*

· *0.2 Hz for Low Frequency Measurements*

· *10,000 Hz for High Frequency Detection*

AC212-1D
2 Pin Connector

Connector Pin	Polarity
A	(+) Signal/Power
B	(−) Common
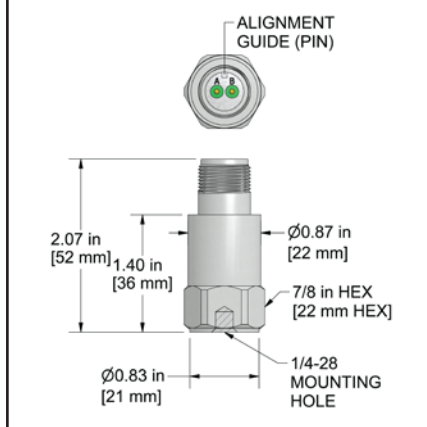
AC212-2D
Integral Cable

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

AC212-3D
Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(−) Common
Shield	Cable Drain Wire
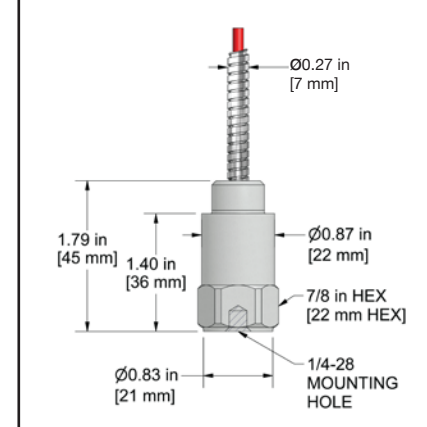
Specifications	Standard	Metric
Part Number	AC212	M/AC212
Sensitivity (±10%)	250 mV/g	
Frequency Response (±3dB)	12-600,000 CPM	0,2-10000 Hz
Frequency Response (±10%)	18-420,000 CPM	0,3-7000 Hz
Dynamic Range	± 30 g, peak	
Electrical		
Settling Time	<2 Seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	2.0 µg/√Hz	
Spectral Noise @ 100 Hz	0.52 µg/√Hz	
Spectral Noise @ 1000 Hz	0.12 µg/√Hz	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10^8 ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-58 to 250°F	-50 to 121°C
Maximum Shock Protection	5,000 g, peak	
Electromagnetic Sensitivity	CE	
Sealing	Welded, Hermetic	
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	3.25 oz	92 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	2 Pin MIL-C-5015	
Resonant Frequency	1,080,000 CPM	18000 Hz
Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Calibration Certificate	CA10	

Ordering Information

Standard								
	AC212-1D (1/4-28 Stud) *Stock Product*	**AC212-2D /** (1/4-28 Stud) *Build To Order*	☐☐☐ (length in feet)	− ☐ (termination)	**AC212-3D /** (1/4-28 Stud) *Build To Order*	☐☐☐ (maximum armor length 100 ft.)	/ ☐☐☐ (cable length in feet)	− ☐ (termination)

Metric								
	M/AC212-1D (M6x1 Adapter Stud) *Stock Product*	**M/AC212-2D /** (M6x1 Adapter Stud) *Build To Order*	☐☐☐ (length in feet)	− ☐ (termination)	**M/AC212-3D /** (M6x1 Adapter Stud) *Build To Order*	☐☐☐ (maximum armor length 100 ft.)	/ ☐☐☐ (cable length in feet)	− ☐ (termination)
			☐☐☐ M − (length in meters)	☐ (termination)		☐☐☐ M / (maximum armor length 30 m)	☐☐☐ M − (cable length in meters)	☐ (termination)

Backed by our Unconditional Lifetime Warranty

CTC

VIBRATION ANALYSIS HARDWARE