

# AC203 Series



Low & High Frequency Accelerometer, Top Exit Connector, 100 mV/g

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.

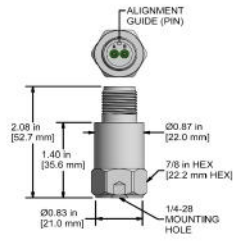
May be used with any application that requires low and high frequency measurements.

- ▶ 100 mV/g Sensitivity,  $\pm 10\%$
- ▶ 0.1 Hz to 10 kHz Frequency Response ( $\pm 3$  dB)
- ▶  $\pm 80$  g peak Dynamic Range

### AC203-1D

2 Pin Connector

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

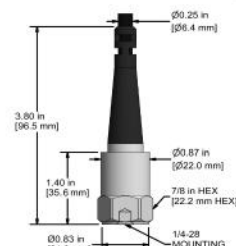


Stock Product

### AC203-2D

CB103 Integral Cable

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

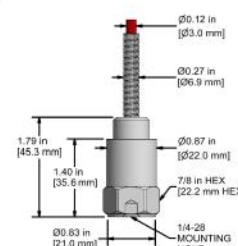


Built To Order

### AC203-3D

CB206 Armored Integral Cable

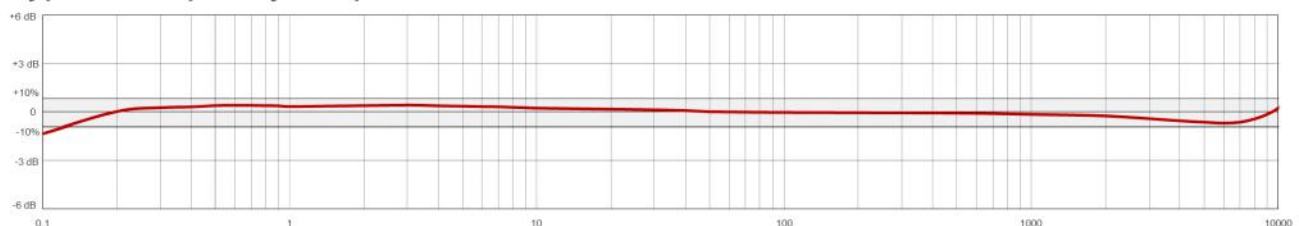
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC203	M/AC203	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )		100 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ( $\pm 3$ dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection		5000 g, peak
Frequency Response ( $\pm 10\%$ )	36-480,000 CPM	0,6-8000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		$\pm 80$ g, peak	Sealing		Welded, Hermetic
<b>Electrical</b>			SIL Rating		SIL 2
Settling Time		< 2 seconds	<b>Physical</b>		
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 $\mu$ g/ $\sqrt$ Hz	Weight	3.25 ounces	92 grams
Spectral Noise @ 100 Hz		0.2 $\mu$ g/ $\sqrt$ Hz	Case Material		316L Stainless Steel
Spectral Noise @ 1000 Hz		0.1 $\mu$ g/ $\sqrt$ 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	1,080,000 CPM	18000 Hz
Case Isolation		> 10 <sup>8</sup> 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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# AC204 Series

Low Frequency Accelerometer, Side Exit 2 Pin Connector, 100 mV/g,  $\pm 10\%$



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.

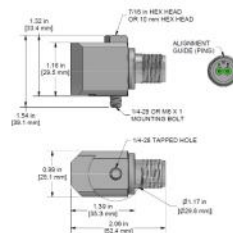
May be used with any application that requires low and high frequency measurements.

- ▶ 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

### AC204-1D 2 Pin Connector

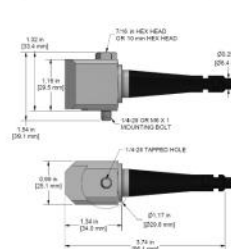
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

### AC204-2D CB103 Integral Cable

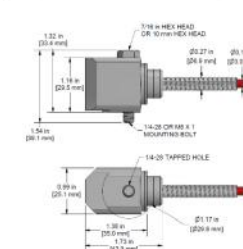
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

### AC204-3D CB206 Armored Integral Cable

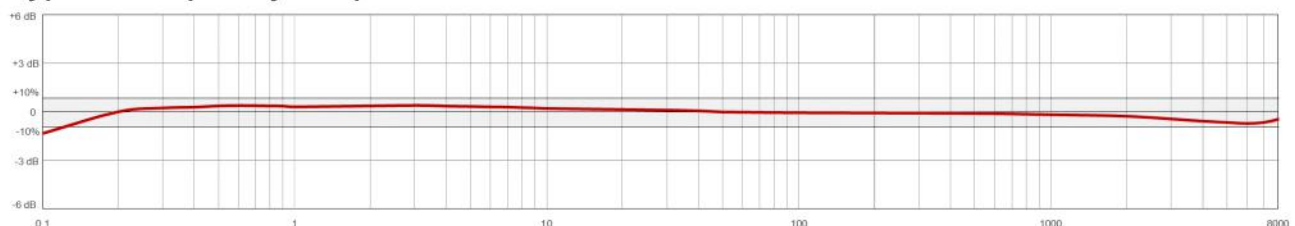
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC204	M/AC204	<b>Environmental</b>		
Sensitivity ( $\pm 10\%$ )	100 mV/g		Operating Temperature Range	-58 to 250°F	-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	$\pm 80$ g, peak		Sealing	Welded, Hermetic	
<b>Electrical</b>			SIL Rating	SIL 2	
Settling Time	< 2 seconds		<b>Physical</b>		
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	5.7 ounces	162 grams
Spectral Noise @ 100 Hz	0.2 $\mu\text{g}/\sqrt{\text{Hz}}$		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.1 $\mu\text{g}/\sqrt{\text{Hz}}$		Connector (Non-Integral)	2 Pin MIL-C-5015	
Output Impedance	< 100 ohm		Resonant Frequency	1,020,000 CPM	17000 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	

## Typical Frequency Response



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