

AC133 Series

Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±10%



VIBRATION ANALYSIS HARDWARE



Product Features

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

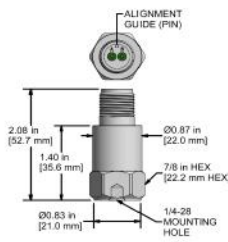
Can be used with any application that requires low and high frequency measurements.

- ▶ 500 mV/g Sensitivity, ±10% Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10,000 Hz for High Frequency Detection

AC133-1D

2 Pin Connector

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



Stock Product

AC133-2D

CB103 Integral Cable

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

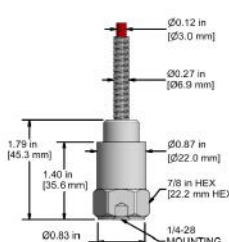


Built To Order

AC133-3D

CB206 Armored Integral Cable

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

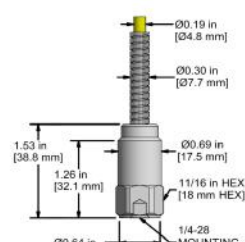


Built To Order

AC133-6D

CB611 Heavy Duty Armored Integral Cable

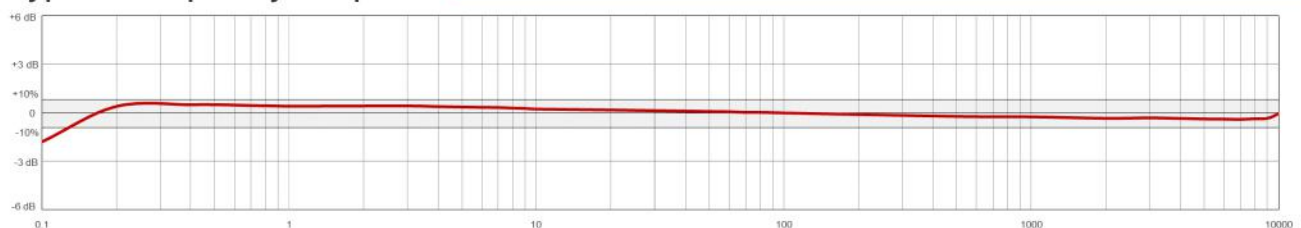
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC133	M/AC133	Environmental		
Sensitivity (±10%)	500 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16 g, peak		Sealing	Welded, Hermetic	
	*Vsource ≥ 22V, 12Vbias		Submersible Depth	200 ft.	60 m
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	1.7 µg/√Hz		Weight	3.4 oz	92 grams
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	0.12 µg/√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 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



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AC134 Series

Low Frequency Accelerometer, Side Exit 2 Pin Connector, 500 mV/g, $\pm 10\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Designed for low speed Rotors, 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.

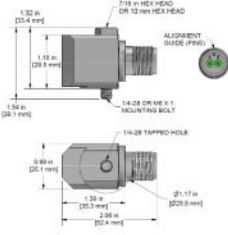
- ▶ 500 mV/g Sensitivity, $\pm 10\%$ Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
8,000 Hz for High Frequency Detection
- ▶ Standard 2 Pin MIL Connection or Integral Cable

Note: Integral Cable Options are only for Permanent Monitoring Applications

AC134-1D

2 Pin Connector

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

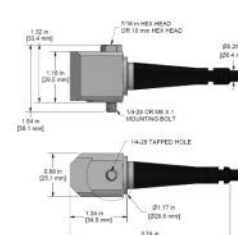


Stock Product

AC134-2D

CB103 Integral Cable

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

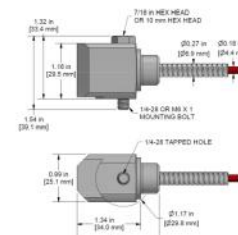


Built To Order

AC134-3D

CB206 Armored Integral Cable

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

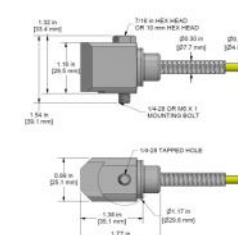


Built To Order

AC134-6D

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	AC134	M/AC134	Environmental		
Sensitivity ($\pm 10\%$)		500 mV/g	Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response ($\pm 3dB$)	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection		5,000 g, peak
Frequency Response ($\pm 10\%$)	36-180,000 CPM	0.6-3000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range	± 16 g, peak*Vsource $\geq 22V$, 12Vbias		Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 seconds		SIL Rating		SIL 2
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz	1.7 $\mu g/\sqrt{Hz}$		Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz	0.2 $\mu g/\sqrt{Hz}$		Weight	5.7 oz	160 grams
Spectral Noise @ 1000 Hz	0.12 $\mu g/\sqrt{Hz}$		Case Material		316L Stainless Steel
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 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



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AC153 Series

Low Cost, Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±20%



VIBRATION ANALYSIS HARDWARE



Product Features

Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but may also be used for High Frequency Detection

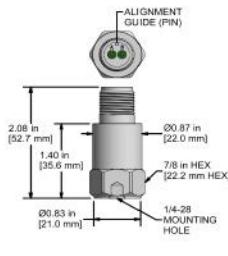
Low Cost Accelerometer

- ▶ 500 mV/g Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10 kHz for High Frequency Detection

AC153-1D

2 Pin Connector

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



Stock Product

AC153-2D

CB103 Integral Cable

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

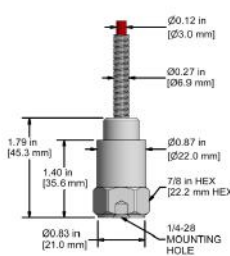


Built To Order

AC153-3D

CB206 Armored Integral Cable

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

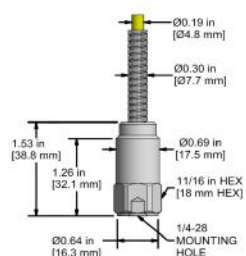


Built To Order

AC153-6D

CB611 Heavy Duty Armored Integral Cable

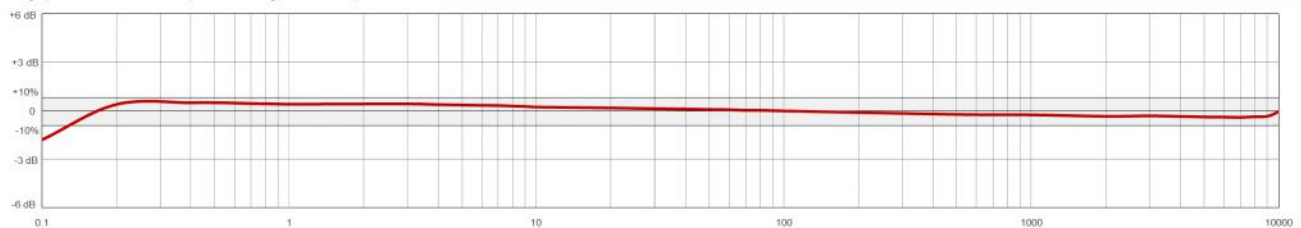
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC153	M/AC153	Environmental		
Sensitivity (±20%)	500 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	3.2 oz	92 grams
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,080,000 CPM	18000 Hz
			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



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AC156 Series

Low Cost, Low Frequency Accelerometer, Side Exit 2 Pin Connector, 500 mV/g, $\pm 20\%$



VIBRATION ANALYSIS HARDWARE



Product Features

Designed for low speed Rotors, Main Bearings, and Gear Box Inputs, but may also be used for High Frequency Detection

Low Cost Accelerometer

- ▶ 500 mV/g Sensitivity
 - ▶ 0.1 Hz for Low Frequency Measurements
10 kHz for High Frequency Detection
 - ▶ Standard 2 Pin MIL Connection or Integral Cable
- Note: Integral Cable Options are only for Permanent Monitoring Applications

AC156-1D

2 Pin Connector

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

Stock Product

AC156-2D

CB103 Integral Cable

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

Built To Order

AC156-3D

CB206 Armored Integral Cable

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

Built To Order

AC156-6D

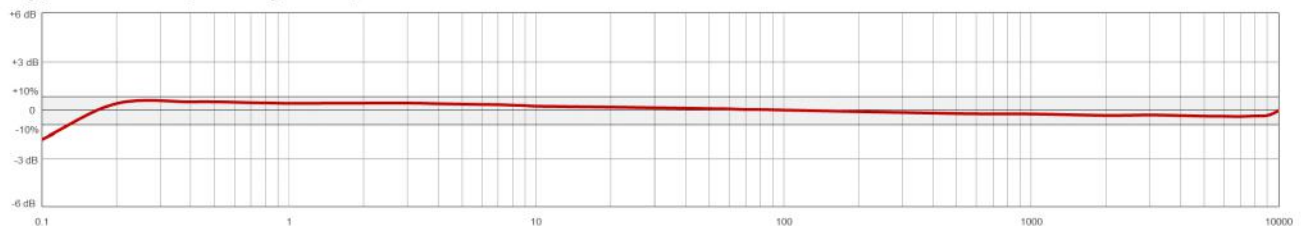
CB611 Heavy Duty Armored Integral Cable

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

Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC156	M/AC156	Environmental		
Sensitivity ($\pm 20\%$)		500 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		5,000 g, peak
Frequency Response ($\pm 10\%$)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity		CE
Dynamic Range		+ 16g, peak	Sealing		Welded, Hermetic
Electrical			Submersible Depth	200 ft.	60 m
Settling Time		<2 Seconds	SIL Rating		SIL 2
Voltage Source (IEPE)		18-30 VDC	Physical		
Constant Current Excitation		2-10 mA	Sensing Element		PZT Ceramic
Spectral Noise @ 10 Hz		1.7 $\mu\text{g}/\sqrt{\text{Hz}}$	Sensing Structure		Shear Mode
Spectral Noise @ 100 Hz		0.2 $\mu\text{g}/\sqrt{\text{Hz}}$	Weight	5.7 oz	162 grams
Spectral Noise @ 1000 Hz		0.12 $\mu\text{g}/\sqrt{\text{Hz}}$	Case Material		316L Stainless Steel
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 ⁸ ohm	Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



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AC233 Series

Premium, Low Frequency Accelerometer, Top Exit 2 Pin Connector, 500 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



Product Features

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

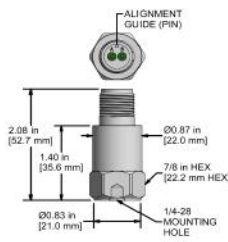
Can be used with any application that requires low and high frequency measurements.

- ▶ 500 mV/g Sensitivity, ±5% Sensitivity
- ▶ 0.1 Hz for Low Frequency Measurements
- ▶ 10,000 Hz for High Frequency Detection

AC233-1A

2 Pin Connector

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



Stock Product

AC233-2A

CB103 Integral Cable

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

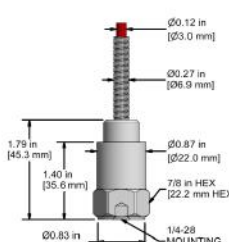


Built To Order

AC233-3A

CB206 Armored Integral Cable

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

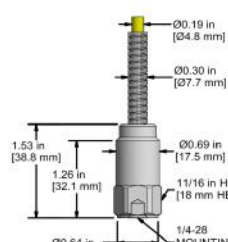


Built To Order

AC233-6A

CB611 Heavy Duty Armored Integral Cable

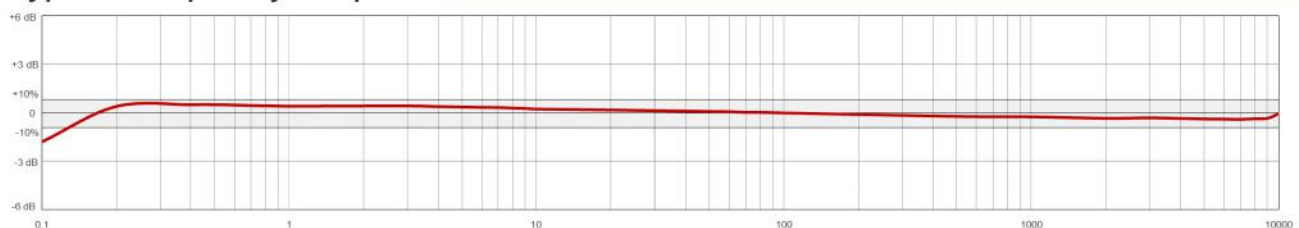
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC233	M/AC233	Environmental		
Sensitivity (±5%)	500 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	6-600,000 CPM	0,1-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0,6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16 g, peak*Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 Seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	3.4 oz	92 grams
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Case Material	316L Stainless Steel	
Output Impedance	<100 ohm		Mounting Thread	1/4-28 Blind Tapped Hole	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 ⁸ ohm		Resonant Frequency	1,080,000 CPM	18000 Hz
			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



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AC234 Series

Premium, Low Frequency Accelerometer, Side Exit 2 Pin Connector, 500 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



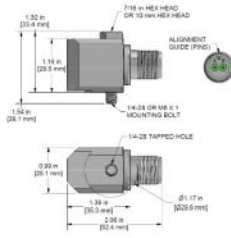
Product Features

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

- ▶ 500 mV/g Sensitivity, ±5% Sensitivity
 - ▶ 0.1 Hz for Low Frequency Measurements
8,000 Hz for High Frequency Detection
 - ▶ Standard 2 Pin MIL Connection or Integral Cable
- Note: Integral Cable Options are only for Permanent Monitoring Applications

AC234-1A

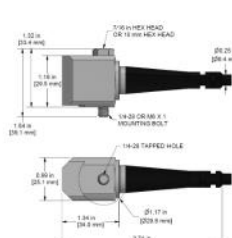
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



Stock Product

AC234-2A

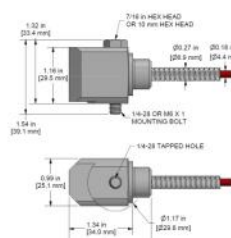
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC234-3A

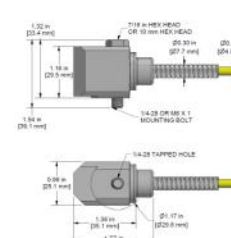
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

AC234-6A

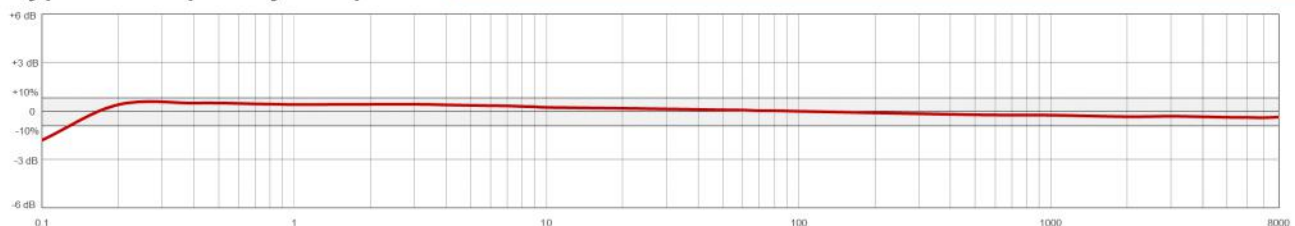
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC234	M/AC234	Environmental		
Sensitivity (±5%)	500 mV/g		Operating Temperature Range	-58 to 250°F	-50 to 121°C
Frequency Response (±3dB)	6-480,000 CPM	0.1-8000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	36-180,000 CPM	0.6-3000 Hz	Electromagnetic Sensitivity	CE	
Dynamic Range	± 16 g, peak *Vsource ≥ 22V, 12Vbias		Sealing	Welded, Hermetic	
Electrical			Submersible Depth	200 ft.	60 m
Settling Time	<2 seconds		SIL Rating	SIL 2	
Voltage Source (IEPE)	18-30 VDC		Physical		
Constant Current Excitation	2-10 mA		Sensing Element	PZT Ceramic	
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Weight	5.7 oz	160 grams
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Case Material	316L Stainless Steel	
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 ⁸ ohm		Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

Typical Frequency Response



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