

AC198 Series

Multi-Purpose Medium Accelerometer, 100mV/g, M8 Captive Bolt, Side Connector



VIBRATION ANALYSIS HARDWARE



Product Features

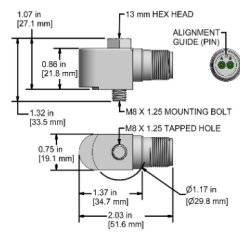
High Performance in an Affordable, Side Exit Compact Sensor

Very Low Noise and Superior RF Immunity

- ▶ 100 mV/g Sensitivity, $\pm 10\%$
- ▶ $\pm 80g$ Dynamic Range
- ▶ Standard 2 Pin MIL Connection on Non-Integral Option

AC198-1D 2 Pin Connector

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

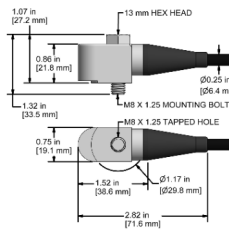


Stock Product

AC198-2D

CB103 Integral Cable

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

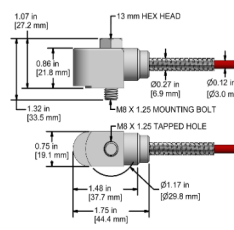


Built To Order

AC198-3D

CB206 Armored Integral cable

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

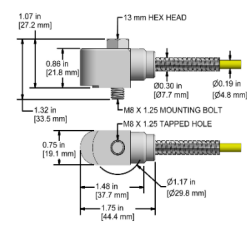


Built To Order

AC198-6D

CB611 Heavy Duty Armored Integral Cable

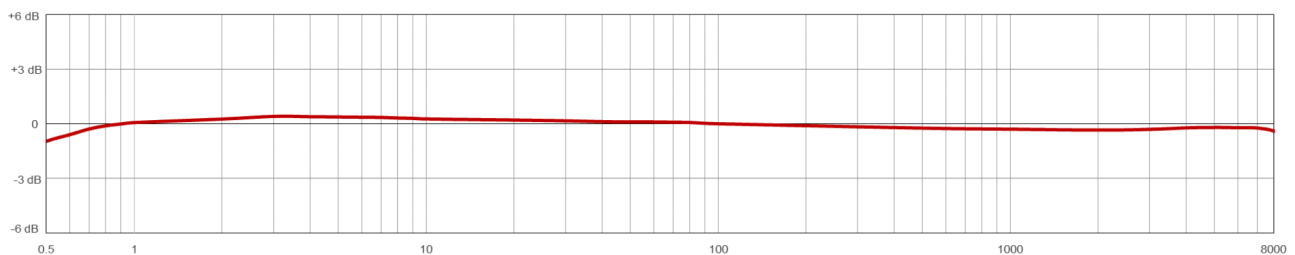
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Built To Order

Specifications	Standard	Metric	Specifications	Standard	Metric
Sensitivity ($\pm 10\%$)		100 mV/g	Environmental		
Frequency Response ($\pm 3dB$)	30-480,000 CPM	0.5-8000 Hz	Temperature Range	-58 to 250°F	-50 to 121°C
Dynamic Range		$\pm 80g$, peak	Maximum Shock Protection		5,000 g, peak
Electrical			Electromagnetic Sensitivity		CE
Settling Time	<2 Seconds		Sealing		Welded, Hermetic
Voltage Source (IEPE)	18-30 VDC		Submersible Depth	200 ft.	60 m
Constant Current Excitation	2-10 mA		Physical		
Spectral Noise @ 10 Hz	8 $\mu g/\sqrt{Hz}$		Sensing Element		PZT Ceramic
Spectral Noise @ 100 Hz	4 $\mu g/\sqrt{Hz}$		Sensing Structure		Shear Mode
Spectral Noise @ 1000 Hz	2 $\mu g/\sqrt{Hz}$		Weight	3.4 oz	96 grams
Output Impedance	<100 ohm		Case Material		316L Stainless Steel
Bias Output Voltage	10-14 VDC		Mounting		Captive Bolt
Case Isolation	>10 ⁹ ohm		Connector (Non-Integral)		2 Pin MIL-C-5015
			Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
			Mounting Hardware		M8 Captive Bolt
			Calibration Certificate		CA10

Typical Frequency Response



Backed by our Unconditional Lifetime Warranty

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