

# AC156 Series

Low Cost, Low Frequency Accelerometer, Side Exit 2 Pin Connector, 500 mV/g, ±15%



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  
8 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	AC156-2D CB103 Integral Cable	AC156-3D CB206 Armored Integral Cable	AC156-6D CB611 Heavy Duty Armored Integral Cable																														
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Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC156	M/AC156	<b>Environmental</b>		
Sensitivity (±15%)	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	
Dynamic Range	+ 16g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
<b>Electrical</b>			Sealing	Welded, Hermetic	
Settling Time	<2 Seconds		Submersible Depth	200 ft.	60 m
Voltage Source	18-30 VDC		SIL Rating	SIL 2	
Constant Current Excitation	2-10 mA		<b>Physical</b>		
Spectral Noise @ 10 Hz	1.7 µg/√Hz		Sensing Element	PZT Ceramic	
Spectral Noise @ 100 Hz	0.2 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 1000 Hz	0.12 µg/√Hz		Weight	5.7 oz	162 grams
Output Impedance	<100 ohm		Case Material	316L Stainless Steel	
Bias Output Voltage	10-14 VDC		Connector (Non-Integral)	2 Pin MIL-C-5015	
Case Isolation	>10 <sup>8</sup> 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 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

## Typical Frequency Response

