

# AC150 Series

Low Cost, Multipurpose Accelerometer, Top Exit 2 Pin Connector, 100 mV/g, ±15%



VIBRATION ANALYSIS HARDWARE



## Product Features

Low Cost Accelerometer - Perfect for Permanent Mounting

Excellent Choice for Budget-Conscious Data Collection

- ▶ ± 80 g, peak Dynamic Range
- ▶ 1-10000 Hz (60-600,000 CPM) Frequency Response
- ▶ Standard 2 Pin MIL Connection or Integral Cable

AC150-1A 2 Pin Connector	AC150-2C CB103 Integral Cable	AC150-3C CB206 Armored Integral Cable	AC150-6C CB611 Heavy Duty Armored Integral Cable	AC150-6N CB111 FEP Jacketed Integral Cable																																						
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Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC150	M/ or M8/AC150	<b>Environmental</b>		
Sensitivity (±15%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	60-600,000 CPM	1,0-10000 Hz	Maximum Shock Protection	5,000 g, peak	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Electromagnetic Sensitivity	CE	
<b>Electrical</b>			Sealing	Welded, Hermetic	
Settling Time	<2.5 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	14 µg/√Hz		Sensing Element	PZT Ceramic	
Spectral Noise @ 100 Hz	2.3 µg/√Hz		Sensing Structure	Shear Mode	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Weight	3.2 oz	90 grams
Output Impedance	<100 ohm		Case Material	316L Stainless Steel	
Bias Output Voltage	10-14 VDC		Mounting Thread	1/4-28 Blind Tapped Hole	
Case Isolation	>10 <sup>9</sup> 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 Supplied	1/4-28 Stud	M6x1 or M8x1.25 Adapter Stud
			Calibration Certificate	CA10	

## Typical Frequency Response

