

# AC244 Series

Premium, Miniature Industrial Accelerometer, High Frequency, Side Exit 2 Pin Mini-MIL Connector, 100 mV/g, ±5%



VIBRATION ANALYSIS HARDWARE



## Product Features

Premium, Mini-MIL, Low-Profile Industrial Accelerometer

100 mV/g ± 5% Sensitivity

- ▶ 2 Pin Mini-MIL Connection or Integral Cable
- Note: Integral Cable Options are Only for Permanent Monitoring Applications

AC244-1D 2 Pin Mini Mil Connector	AC244-2D CB110 Integral Cable	AC244-3D CB206 Armored Integral Cable	AC244-6D CB611 Heavy Duty Armored Integral Cable																														
<table border="1"> <thead> <tr> <th>Connector Pin</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>(+) Signal/Power</td> </tr> <tr> <td>B</td> <td>(-) Common</td> </tr> </tbody> </table>	Connector Pin	Polarity	A	(+) Signal/Power	B	(-) Common	<table border="1"> <thead> <tr> <th>Conductor</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>(+) Signal/Power</td> </tr> <tr> <td>Black</td> <td>(-) Common</td> </tr> <tr> <td>Shield</td> <td>Cable Drain Wire</td> </tr> </tbody> </table> <p><b>Built To Order</b></p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire	<table border="1"> <thead> <tr> <th>Conductor</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>(+) Signal/Power</td> </tr> <tr> <td>Black</td> <td>(-) Common</td> </tr> <tr> <td>Shield</td> <td>Cable Drain Wire</td> </tr> </tbody> </table> <p><b>Built To Order</b></p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire	<table border="1"> <thead> <tr> <th>Conductor</th> <th>Polarity</th> </tr> </thead> <tbody> <tr> <td>Red</td> <td>(+) Signal/Power</td> </tr> <tr> <td>Black</td> <td>(-) Common</td> </tr> <tr> <td>Shield</td> <td>Cable Drain Wire</td> </tr> </tbody> </table> <p><b>Built To Order</b></p>	Conductor	Polarity	Red	(+) Signal/Power	Black	(-) Common	Shield	Cable Drain Wire
Connector Pin	Polarity																																
A	(+) Signal/Power																																
B	(-) Common																																
Conductor	Polarity																																
Red	(+) Signal/Power																																
Black	(-) Common																																
Shield	Cable Drain Wire																																
Conductor	Polarity																																
Red	(+) Signal/Power																																
Black	(-) Common																																
Shield	Cable Drain Wire																																
Conductor	Polarity																																
Red	(+) Signal/Power																																
Black	(-) Common																																
Shield	Cable Drain Wire																																

Specifications	Standard	Metric	Specifications	Standard	Metric
Part Number	AC244	M/AC244	<b>Environmental</b>		
Sensitivity (±5%)	100 mV/g		Operating Temperature Range	-58 to 250 °F	-50 to 121 °C
Frequency Response (±3dB)	36-900,000 CPM	0.6-15000 Hz	Maximum Shock Protection	5,000 g, peak	
Frequency Response (±10%)	60-600,000 CPM	1.0-10000 Hz	Electromagnetic Sensitivity	CE	
Frequency Response (±5%)	120-420,000 CPM	2.0-7000 Hz	Sealing	Welded, Hermetic	
Dynamic Range	± 80 g, peak *Vsource ≥ 22V, 12Vbias		Submersible Depth	200 ft.	60 m
<b>Electrical</b>			SIL Rating	SIL 2	
Settling Time	<2.5 seconds		<b>Physical</b>		
Voltage Source	18-30 VDC		Sensing Element	PZT Ceramic	
Constant Current Excitation	2-10 mA		Sensing Structure	Shear Mode	
Spectral Noise @ 10 Hz	30 µg/√Hz		Weight	2.1 oz	60 grams
Spectral Noise @ 100 Hz	4 µg/√Hz		Case Material	316L Stainless Steel	
Spectral Noise @ 1000 Hz	2 µg/√Hz		Connector (Non-Integral)	2 Pin mini-MIL (J Series)	
Output Impedance	<100 ohm		Resonant Frequency	1,192,600 CPM	26000 Hz
Bias Output Voltage	10-14 VDC		Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Case Isolation	>10 <sup>8</sup> ohm		Mounting Hardware Supplied	1/4-28 Captive Bolt	M6x1 Captive Bolt
			Calibration Certificate	CA10	

## Typical Frequency Response

