AC312 Series



Low Voltage Accelerometer, Top Exit 3 Pin Connector, 25 mV/g, +10%



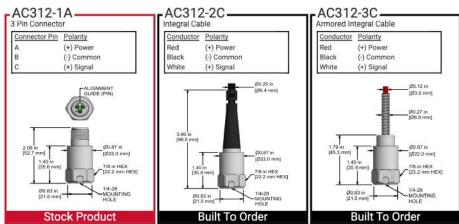


Product Features

Ultra Low Power Sensor

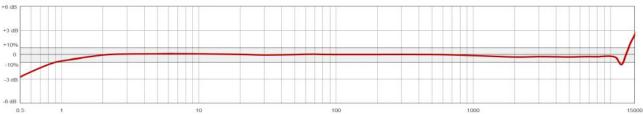
For Battery Powered Transmission Systems

- 3 Pin MIL Connector
- Supply Voltage 3-5 Volts
- Compatible with Many Wireless Transmission Systems



Specifications	Standard		Metric	Specifications	Standard		Metric
Part Number	AC312		M/AC312	Environmental			
Sensitivity (±10%)		25 mV/g		Operating Temperature Range	-58 to 250°F		-50 to 121°C
Frequency Response (±3dB)	30-900,000 CPM		0,5-15000 Hz	Maximum Shock Protection		5,000 g, peak	
Frequency Response (±10%)	60-720,000 CPM		1,0-12000 Hz	Sealing		IP68	
Dynamic Range		± 50 g, peak		Submersible Depth	200 ft.		60 m
lectrical				Physical			
Settling Time		<1.0 second		Sensing Element		PZT Ceramic	
Voltage Source (IEPE)	3	3-5 VDC (10%)		Sensing Structure		Shear Mode	
Spectral Noise @ 10 Hz		60 µg/√Hz		Weight	3.2 oz		90 grams
Spectral Noise @ 100 Hz		20 μg/√Hz		Case Material		316L Stainless Steel	
Spectral Noise @ 1000 Hz		5 μg/√Hz		Manual Three d		1/4-28 Blind Tapped	
Output Impedance		<100 ohm		Mounting Thread		Hole	
Bias Output Voltage		1.5 V ± 10%		Connector (Non-Integral)		3 Pin MIL-C-5015	
Case Isolation		>108 ohm		Resonant Frequency	1,860,000 CPM		31000 Hz
Supply Current		< 20 µA		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



AC314 Series



Low Voltage Accelerometer, Side Exit 3 Pin Connector, 25 mV/g, +10%

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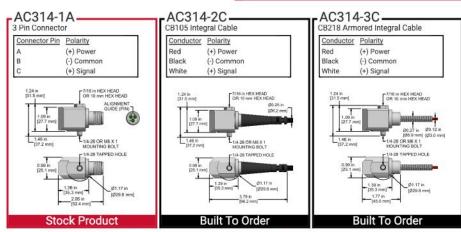


Product Features

Ultra Low Power Sensor

For Battery Powered Systems

- Compatible with Many Wireless Transmission Systems
- Supply Voltage 3-5 Volts
- 3 Pin MIL Connection or Integral Cable Note: Integral Cable Options are only for Permanent Monitoring Applications



Specifications	Standard		Metric	Specifications	Standard		Metric
Part Number	AC314		M/AC314	Environmental			
Sensitivity (±10%)		25 mV/g		Operating Temperature Range	-58 to 250°F		-50 to 121°C
Frequency Response (±3dB)	30-600,000 CPM		0,5-10000 Hz	Maximum Shock Protection		5,000 g, peak	
Frequency Response (±10%)	60-480,000 CPM		1,0-8000 Hz	Sealing		IP68	
Dynamic Range		± 50 g, peak		Physical			
Electrical				Sensing Element		PZT Ceramic	
Settling Time		< 1 second		Sensing Structure		Shear Mode	
Voltage Source (IEPE)		3-5 VDC (10%)		Weight	5.1 ounces		145 grams
Spectral Noise @ 10 Hz		60 µg/√Hz		Cons Metasial		316L Stainless	
Spectral Noise @ 100 Hz		20 μg/√Hz		Case Material		Steel	
Spectral Noise @ 1000 Hz		5 μg/√Hz		Connector (Non-Integral)		3 Pin MIL-C-5015	
Output Impedance		< 100 ohm		Resonant Frequency	1,260,000 CPM		21000 Hz
Bias Output Voltage		1.5 V ± 10 %		Mounting Torque	2 to 5 ft. lbs.		2,7 to 6,8 Nm
Case Isolation		> 10 ⁸ ohm		Manuatian Hardones Complied	1/4-28 Captive		M6x1 Captive
Supply Current		< 20 µA		Mounting Hardware Supplied	Bolt		Bolt
				Calibration Certificate		CA10	

Typical Frequency Response

