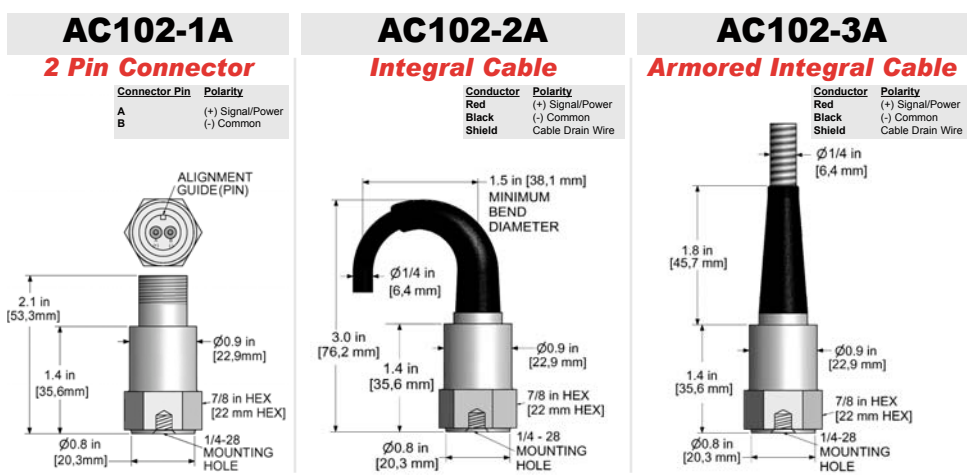


AC102 Series

Multi-Purpose Accelerometer, Top Exit Connector / Cable, 100 mV/g



Part Numbers & Ordering Information:	AC102-1A Multi purpose accelerometer, 100 mV/g, 2 pin top connector	* Custom Lengths Available Upon Request		
		AC102-2A	AC102-3A	
<p>When Ordering Metric, add "M" prefix. (Example: M/AC102-2A/010-Z)</p>	AC102-2A/010-Z	10 ft. (3 m), blunt cut end	AC102-3A/010-Z	10 ft. (3 m), blunt cut end
	AC102-2A/020-Z	20 ft. (6 m), blunt cut end	AC102-3A/020-Z	20 ft. (6 m), blunt cut end
	AC102-2A/030-Z	30 ft. (9 m), blunt cut end	AC102-3A/030-Z	30 ft. (9 m), blunt cut end
	AC102-2A/050-Z	50 ft. (15 m), blunt cut end	AC102-3A/050-Z	50 ft. (15 m), blunt cut end
	AC102-2A/100-Z	100 ft. (30 m), blunt cut end	AC102-3A/100-Z	100 ft. (30 m), blunt cut end
	AC102-2A/010-F	10 ft. (3 m), BNC plug connector	AC102-3A/010-F	10 ft. (3 m), BNC plug connector
	AC102-2A/020-F	20 ft. (6 m), BNC plug connector	AC102-3A/020-F	20 ft. (6 m), BNC plug connector
	AC102-2A/030-F	30 ft. (9 m), BNC plug connector	AC102-3A/030-F	30 ft. (9 m), BNC plug connector
	AC102-2A/050-F	50 ft. (15 m), BNC plug connector	AC102-3A/050-F	50 ft. (15 m), BNC plug connector
	AC102-2A/100-F	100 ft. (30 m), BNC plug connector	AC102-3A/100-F	100 ft. (30 m), BNC plug connector

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity	±10%	100 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response	±3 dB	30-900,000 CPM	Maximum Shock Protection	5,000 g, peak	5000 g, peak
	±10%	120-600,000 CPM	Electromagnetic Sensitivity	CE	CE
Dynamic Range		±50 g, peak	Sealing	Welded, Hermetic	Welded, Hermetic
			Submersible Depth (AC102-2A)	500 ft.	152 m
Electrical			Physical		
Settling Time (Turn on Time)			Sensing Element	PZT Ceramic	PZT Ceramic
@ Room Temp (68°F/20°C)	<2.5 Seconds	<2.5 Seconds	Sensing Structure	Shear Mode	Shear Mode
Power Requirement			Weight	3.2 oz.	90 grams
Voltage Source	18-30 VDC	18-30 VDC	Case Material	316L Stainless Steel	316L Stainless Steel
Constant Current Excitation	2-10 mA	2-10 mA	Mounting Hole	1/4-28	1/4-28
Electrical Noise (Typical)			Connector (AC102-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Broadband 2.5 Hz to 25 kHz	200 σg, rms	200 σg, rms	Integral Cable (AC102-2A)	CB103	CB103
Spectral 10 Hz	14 σg/√Hz	14 σg/√Hz	Armored Cable (AC102-3A)	CB206, Armor Jacket	CB206, Armor Jacket
100 Hz	2.3 σg/√Hz	2.3 σg/√Hz	Mechanical		
1000 Hz	2 σg/√Hz	2 σg/√Hz	Resonant Frequency	1,380,000 CPM	23000 Hz
Output Impedance, Max	<100 ohm	<100 ohm	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Bias Output Voltage	10-14 VDC	10-14 VDC	Supplied Accessories		
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	CA10

Common Applications			
Industries Served			
<ul style="list-style-type: none"> Automotive Petrochemical Steel 	<ul style="list-style-type: none"> Manufacturing Pharmaceutical Wastewater Treatment 	<ul style="list-style-type: none"> Military Power 	<ul style="list-style-type: none"> Mining Pulp and Paper
Typical Applications			
<ul style="list-style-type: none"> Air Compressors Dryer Sections <250° F (121° C) Motors Pumps, Underwater 	<ul style="list-style-type: none"> Air Handlers Fans Press Sections Roll and Process Equipment 	<ul style="list-style-type: none"> Conveyors Fourdriniers Presses and Stamping Spindles 	<ul style="list-style-type: none"> Cooling Towers Gear Boxes Pumps
Measurement Types			
<ul style="list-style-type: none"> Permanent Mount 	<ul style="list-style-type: none"> Portable 		

For optional accessories, please see the *Sensor Accessory Selection Chart*.

