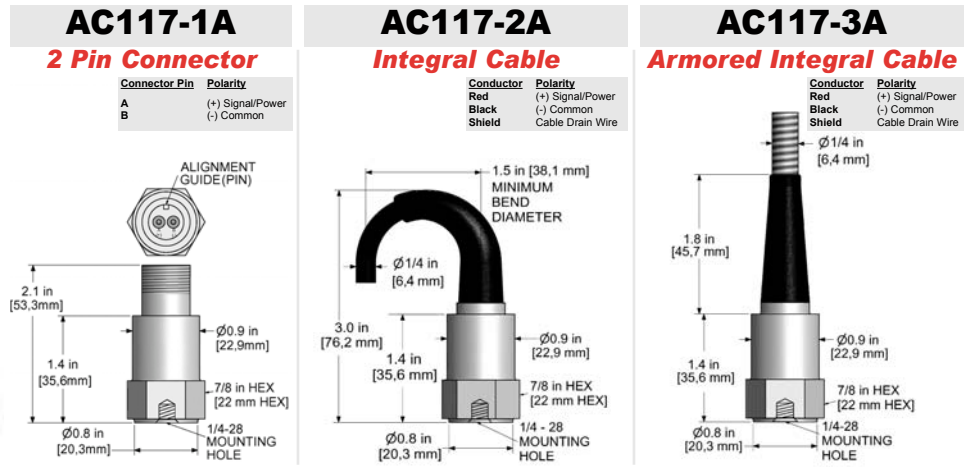


AC117 Series

Multi-Purpose Accelerometer, Top Exit Connector / Cable, 50 mV/g



<p>Part Numbers & Ordering Information:</p> <p>When Ordering Metric, add "M" prefix. (Example: M/AC117-2A/010-Z)</p>	<p>AC117-1A Multi-Purpose accelerometer, 2 pin top exit connector, 50 mV/g</p>	<p>AC117-2A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC117-2A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC117-2A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC117-2A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC117-2A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC117-2A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC117-2A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC117-2A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC117-2A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC117-2A/100-F 100 ft. (30 m), BNC plug connector</p>	<p>AC117-3A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC117-3A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC117-3A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC117-3A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC117-3A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC117-3A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC117-3A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC117-3A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC117-3A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC117-3A/100-F 100 ft. (30 m), BNC plug connector</p>
	* Custom Lengths Available Upon Request		

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity ±10%	50 mV/g	50 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response ±3 dB ±10%	60-750,000 CPM	1,0-12500 Hz	Maximum Shock Protection	5,000 g, peak	5000 g, peak
Dynamic Range	±100 g, peak	±100 g, peak	Electromagnetic Sensitivity	CE	CE
Electrical			Sealing	Welded, Hermetic	Welded, Hermetic
Settling Time (Turn on Time) @ Room Temp (68°F/20°C)	<2 Seconds	<2 Seconds	Submersible Depth (AC117-2A)	500 ft.	152 m
Power Requirement			Physical		
Voltage Source	18-30 VDC	18-30 VDC	Sensing Element	PZT Ceramic	PZT Ceramic
Constant Current Excitation	2-10 mA	2-10 mA	Sensing Structure	Shear Mode	Shear Mode
Electrical Noise (Typical)			Weight	3.2 oz.	90 grams
Broadband 2.5 Hz to 25 kHz	200 σg, rms	200 σg, rms	Case Material	316L Stainless Steel	316L Stainless Steel
Spectral 10 Hz	8 σg/√Hz	8 σg/√Hz	Mounting Hole	1/4-28	1/4-28
100 Hz	2.5 σg/√Hz	2.5 σg/√Hz	Connector (AC117-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
1000 Hz	1.7 σg/√Hz	1.7 σg/√Hz	Integral Cable (AC117-2A)	CB103	CB103
Output Impedance, Max	<100 ohm	<100 ohm	Armored Cable (AC117-3A)	CB206, Armor Jacket	CB206, Armor Jacket
Bias Output Voltage	10-14 VDC	10-14 VDC	Mechanical		
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Resonant Frequency	1,380,000 CPM	23000 Hz
			Mounting Torque	2 to 5 ft. lbs.	2,7 to 6,8 Nm
			Supplied Accessories		
			Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
			Calibration Certificate	CA10	CA10

Common Applications

Industries Served

- Automotive
- Petrochemical
- Steel
- Manufacturing
- Pharmaceutical
- Wastewater Treatment
- Military
- Power
- Mining
- Pulp and Paper

Typical Applications

- Air Compressors
- Dryer Sections <250° F (121° C)
- Motors
- Pumps, Underwater
- Air Handlers
- Fans
- Press Sections
- Roll and Process Equipment
- Conveyors
- Fourdriners
- Presses and Stamping
- Spindles
- Cooling Towers
- Gear Boxes
- Pumps

Measurement Types

- Permanent Mount
- Portable

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

