

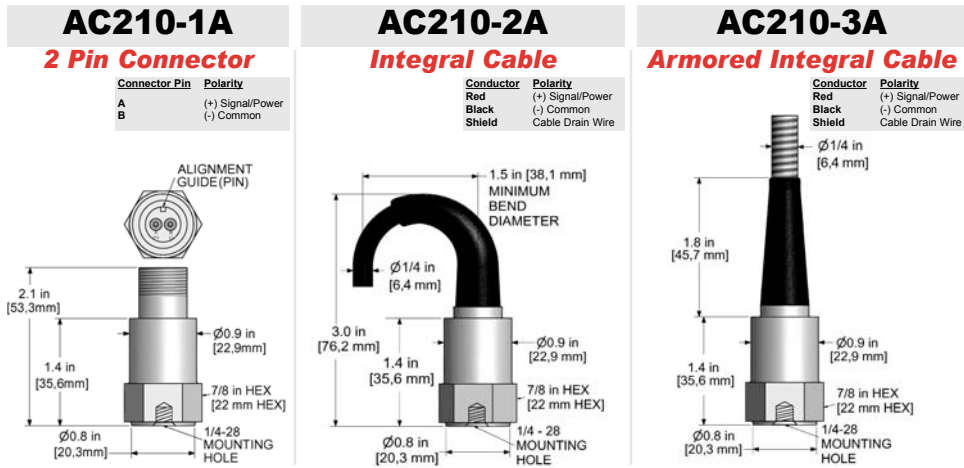
AC210 Series

Premium Series Accelerometer, Top Exit Connector / Cable, 100 mV/g



API 670

CE



<p>Part Numbers & Ordering Information:</p> <p>When Ordering Metric, add "M" prefix. (Example: M/AC210-2A/010-Z)</p>	<p>AC210-1A 80 g range accelerometer, 100 mV/g, ±5%, 2 pin top connector</p>	<p>AC210-2A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC210-2A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC210-2A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC210-2A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC210-2A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC210-2A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC210-2A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC210-2A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC210-2A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC210-2A/100-F 100 ft. (30 m), BNC plug connector</p>	<p>AC210-3A/010-Z 10 ft. (3 m), blunt cut end</p> <p>AC210-3A/020-Z 20 ft. (6 m), blunt cut end</p> <p>AC210-3A/030-Z 30 ft. (9 m), blunt cut end</p> <p>AC210-3A/050-Z 50 ft. (15 m), blunt cut end</p> <p>AC210-3A/100-Z 100 ft. (30 m), blunt cut end</p> <p>AC210-3A/010-F 10 ft. (3 m), BNC plug connector</p> <p>AC210-3A/020-F 20 ft. (6 m), BNC plug connector</p> <p>AC210-3A/030-F 30 ft. (9 m), BNC plug connector</p> <p>AC210-3A/050-F 50 ft. (15 m), BNC plug connector</p> <p>AC210-3A/100-F 100 ft. (30 m), BNC plug connector</p>
	* Custom Lengths Available Upon Request		

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity ±5%	100 mV/g	100 mV/g	Temperature Range	-58 to 250° F	-50 to 121° C
Frequency Response			Maximum Shock Protection	5,000 g, peak	5000 g, peak
±3 dB	30-900,000 CPM	0.5-15000 Hz	Electromagnetic Sensitivity	CE	CE
±10%	60-600,000 CPM	1.0-10000 Hz	Sealing	Welded, Hermetic	Welded, Hermetic
±5%	120-420,000 CPM	2.0-7000 Hz	Submersible Depth (AC210-2A)	500 ft.	152 m
Dynamic Range	±80 g, peak	±80 g, peak	Physical		
Electrical			Sensing Element	PZT Ceramic	PZT Ceramic
Settling Time (Turn on Time)			Sensing Structure	Shear Mode	Shear Mode
@ Room Temp (68°F/20°C)	<2.5 Seconds	<2.5 Seconds	Weight	3.2 oz.	90 grams
Power Requirement			Case Material	316L Stainless Steel	316L Stainless Steel
Voltage Source	18-30 VDC	18-30 VDC	Mounting Hole	1/4-28	1/4-28
Constant Current Excitation	2-10 mA	2-10 mA	Connector (AC210-1A)	2 Pin MIL-C-5015	2 Pin MIL-C-5015
Electrical Noise (Typical)			Integral Cable (AC210-2A)	CB103	CB103
Broadband 2.5 Hz to 25 kHz	113 σg, rms	113 σg, rms	Armored Cable (AC210-3A)	CB206, Armor Jacket	CB206, Armor Jacket
Spectral 10 Hz	8 σg/√Hz	8 σg/√Hz	Mechanical		
100 Hz	0.82 σg/√Hz	0.82 σg/√Hz	Resonant Frequency	1,560,000 CPM	26000 Hz
1000 Hz	0.3 σg/√Hz	0.3 σg/√Hz	Mounting Torque	2 to 5 ft. lbs.	2.7 to 6.8 Nm
Output Impedance, Max	<100 ohm	<100 ohm	Supplied Accessories		
Bias Output Voltage	10-14 VDC	10-14 VDC	Mounting Hardware	1/4-28 Stud	M6x1 Adapter Stud
Electrical Case Isolation	>10 ⁸ ohm	>10 ⁸ ohm	Calibration Certificate	CA10	CA10

Common Applications

Industries Served

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|--|---|---|--|
| <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 |
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Typical Applications

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|--|--|---|---|
| <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

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| <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*.



VIBRATION ANALYSIS HARDWARE