

AC102 SERIES

MULTI-PURPOSE ACCELEROMETER TOP EXIT CONNECTOR / CABLE, 100 mV/g

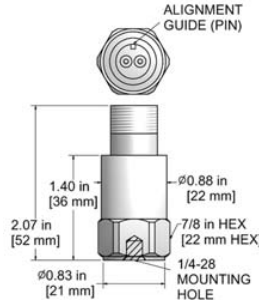
100 mV/g



AC102-1A

2 Pin Connector

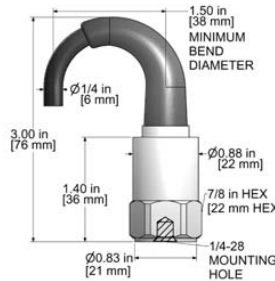
Connector Pin	Polarity
A	(+) Signal/Power
B	(-) Common



AC102-2C

Integral Cable

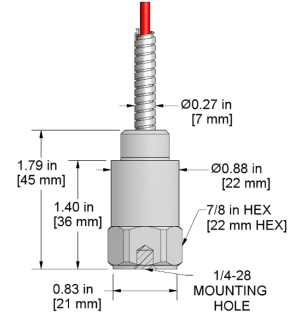
Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



AC102-3C

Armored Integral Cable

Conductor	Polarity
Red	(+) Signal/Power
Black	(-) Common
Shield	Cable Drain Wire



Part Numbers & Ordering Information:

When Ordering Metric, add "M" prefix.
(Example: M/AC102-2C/010-Z)

AC102-1A Multi purpose accelerometer, 100 mV/g, 2 pin top connector

AC102-2C/010-Z	10 ft. (3 m), blunt cut end	AC102-3C/010-Z	10 ft. (3 m), blunt cut end
AC102-2C/020-Z	20 ft. (6 m), blunt cut end	AC102-3C/020-Z	20 ft. (6 m), blunt cut end
AC102-2C/030-Z	30 ft. (9 m), blunt cut end	AC102-3C/030-Z	30 ft. (9 m), blunt cut end
AC102-2C/050-Z	50 ft. (15 m), blunt cut end	AC102-3C/050-Z	50 ft. (15 m), blunt cut end
AC102-2C/100-Z	100 ft. (30 m), blunt cut end	AC102-3C/100-Z	100 ft. (30 m), blunt cut end
AC102-2C/010-F	10 ft. (3 m), BNC plug connector	AC102-3C/010-F	10 ft. (3 m), BNC plug connector
AC102-2C/020-F	20 ft. (6 m), BNC plug connector	AC102-3C/020-F	20 ft. (6 m), BNC plug connector
AC102-2C/030-F	30 ft. (9 m), BNC plug connector	AC102-3C/030-F	30 ft. (9 m), BNC plug connector
AC102-2C/050-F	50 ft. (15 m), BNC plug connector	AC102-3C/050-F	50 ft. (15 m), BNC plug connector
AC102-2C/100-F	100 ft. (30 m), BNC plug connector	AC102-3C/100-F	100 ft. (30 m), BNC plug connector

* Custom Lengths Available Upon Request

Performance Specifications	English	Metric	Environmental	English	Metric
Sensitivity	±10%	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	Electromagnetic Sensitivity	CE	CE
	±10%	120-600,000 CPM	Sealing	Welded, Hermetic	Welded, Hermetic
Dynamic Range		±50 g, peak	Submersible Depth (AC102-2C)	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 µg, rms	200 µg, rms	Integral Cable (AC102-2C)	CB103	CB103
Spectral 10 Hz	14 µg/√Hz	14 µg/√Hz	Armored Cable (AC102-3C)	CB206, Armor Jacket	CB206, Armor Jacket
100 Hz	2.3 µg/√Hz	2.3 µg/√Hz	Mechanical		
1000 Hz	2 µg/√Hz	2 µg/√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

- 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
- Fourdriniers
- Presses and Stamping
- Spindles
- Cooling Towers
- Gear Boxes
- Pumps

Measurement Types

- Permanent Mount
- Portable

UNCONDITIONAL, LIFETIME WARRANTY



VIBRATION ANALYSIS HARDWARE

DAT10011