

AC232 Series

Premium Triaxial Accelerometer, Connector, 10 mV/g

SECTION I - VIBRATION SENSORS Accelerometers

Actual Product Size Shown



Must Use **J4A, J4C, J4N, or J4P** Connectors
Must Use **CB105, CB117, CB119** or **CB218** Cables

Product Features

Modal/ODS Triaxial Sensor

Collect 3 Axes of Data for Modal Analysis and ODS (Operating Deflection Shape)

- Premium 10 mV/g, $\pm 5\%$ Sensitivity
- Phase conforms to Cartesian Coordinate System (Right Hand Rule)

AC232-1D

4 Pin Connector

Azima DU Compatible		Azima DU Compatible	
Connector Pin	Polarity	Connector Pin	Polarity
A	Axis Y (+) Signal/Power	A	Axis 3 (+) Signal/Power
B	Axis X (+) Signal/Power	B	Axis 2 (+) Signal/Power
C	Axis Z (+) Signal/Power	C	Axis 1 (+) Signal/Power
D	(-) Common/Grid	D	(-) Common/Grid

AC232-2D

Integral Cable

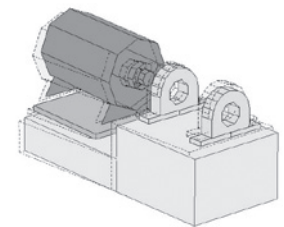
Azima DU Compatible		Azima DU Compatible	
Conductor	Polarity	Conductor	Polarity
Red	Axis Y (+) Signal/Power	Red	Axis 3 (+) Signal/Power
Green	Axis X (+) Signal/Power	Green	Axis 2 (+) Signal/Power
White	Axis Z (+) Signal/Power	White	Axis 1 (+) Signal/Power
Black	(-) Common/Grid	Black	(-) Common/Grid

AC232-3D

Armored Integral Cable

Azima DU Compatible		Azima DU Compatible	
Conductor	Polarity	Conductor	Polarity
Red	Axis Y (+) Signal/Power	Red	Axis 3 (+) Signal/Power
Green	Axis X (+) Signal/Power	Green	Axis 2 (+) Signal/Power
White	Axis Z (+) Signal/Power	White	Axis 1 (+) Signal/Power
Black	(-) Common/Grid	Black	(-) Common/Grid

Operating Deflection Shape created from vibration and phase measurements.



Specifications	Standard	Metric
Part Number	AC232	M/AC232
Sensitivity ($\pm 5\%$)	10 mV/g	
Frequency Response ($\pm 3\text{dB}$)	60-600,000 CPM	1,0-10000 Hz
Frequency Response ($\pm 10\%$)	90-420,000 CPM	1,5-7000 Hz
Frequency Response ($\pm 5\%$)	180-360,000 CPM	3,0-6000 Hz
Dynamic Range	± 500 g, peak	
Electrical		
Settling Time	<2.5 seconds	
Voltage Source (IEPE)	18-30 VDC	
Constant Current Excitation	2-10 mA	
Spectral Noise @ 10 Hz	100 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 100 Hz	19 $\mu\text{g}/\sqrt{\text{Hz}}$	
Spectral Noise @ 1000 Hz	5 $\mu\text{g}/\sqrt{\text{Hz}}$	
Output Impedance	<100 ohm	
Bias Output Voltage	10-14 VDC	
Case Isolation	>10 ⁸ ohm	

Specifications	Standard	Metric
Environmental		
Temperature Range	-65 to 250°F	-54 to 121°C
Electromagnetic Sensitivity	CE	
Sealing	IP68	
Submersible Depth (AC232-2D/3D)	200 ft.	60 m
Physical		
Sensing Element	PZT Ceramic	
Sensing Structure	Shear Mode	
Weight	7.1 oz	200 grams
Case Material	316L Stainless Steel	
Mounting	1/4-28	
Connector (non-integral)	4 Pin	
Mounting Torque	1 to 2 ft. lbs.	1,4 to 2,7 Nm
Mounting Hardware	1/4-28 Captive Bolt	M6x1 Captive Bolt
Calibration Certificate	CA10	

Ordering Information

Standard	AC232-1D (1/4-28 Captive Bolt)	AC232-2D - / (1/4-28 Captive Bolt)	AC232-3D - / (1/4-28 Captive Bolt)
	(length in feet) (termination)	(length in feet) (termination)	(maximum armor length 100 ft.) (cable length in feet) (termination)
	Stock Product	Build To Order	Build To Order
Metric	M/AC232-1D (M6x1 Captive Bolt)	M/AC232-2D - / (M6x1 Captive Bolt)	M/AC232-3D - / (M6x1 Captive Bolt)
	(length in meters) (termination)	(length in meters) (termination)	(maximum armor length 30 m) (cable length in meters) (termination)
	Stock Product	Build To Order	Build To Order

CTC multi-conductor cable

Red = Y axis
Green = X axis
White = Z axis
Black = Common



Backed by our Unconditional Lifetime Warranty

www.ctconline.com

