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TECHNOLOGY GROUP

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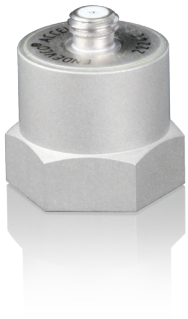
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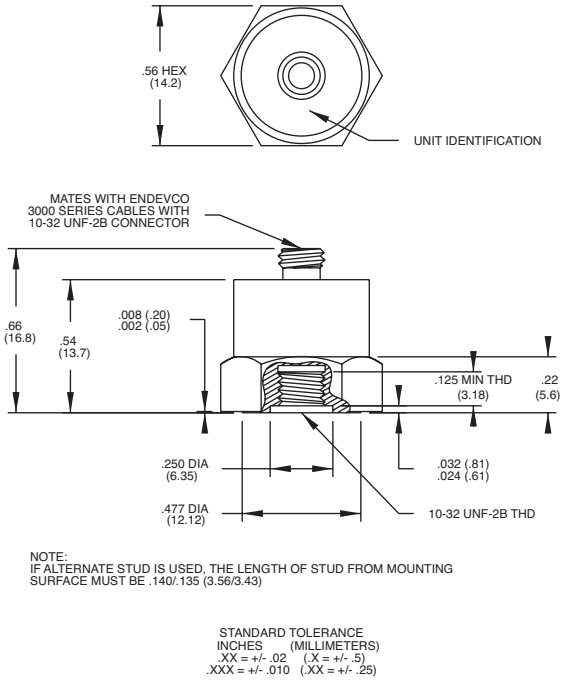
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ENDEVCO
AN AMPHENOL COMPANY

Piezoelectric accelerometer

Model 2224C





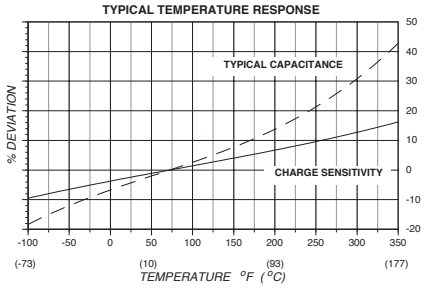
Key features

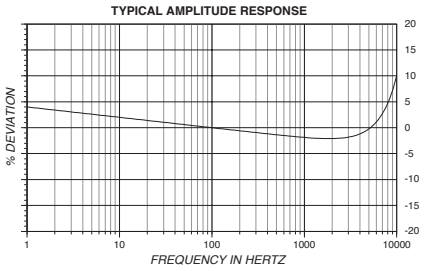
- Low cost
- Rugged
- Small size
- Top connector
- General purpose vibration measurement

Endevco model 2224C is a general purpose piezoelectric accelerometer designed for vibration measurement on small structures. The unit features a top connector for mounting convenience in limited space. The accelerometer is a self generating device that requires no external power source for operation.

Model 2224C features Endevco's Piezite® type P-8 crystal element operating in annular shear mode. This sensor exhibits low base strain sensitivity, high resonance frequency, and excellent output stability over time. Signal ground is connected to the outer case of the unit and, when used with an isolated mounting stud, the accelerometer case is electrically isolated from ground. A low-noise coaxial cable is supplied for error-free operation.

Endevco signal conditioner models 133, 2775A or Oasis 2000 computer-controlled system are recommended for use with this high impedance accelerometer.





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Piezoelectric accelerometer

Model 2224C

Specifications

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C) and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied.

Dynamic characteristics	Units	2224C
Charge sensitivity		
Typical	pC/g	12.0
Minimum	pC/g	8.5
Frequency response		See typical amplitude response
Resonance frequency	kHz	32
Amplitude response [1]		
±5 %	Hz	1 to 6000
±1 dB	Hz	.1 to 10 000
Temperature response		See typical curve
Transverse sensitivity	%	≤ 3
Amplitude linearity [2]	%	1
Per 250 g, 0 to 1000 g		
Electrical characteristics		
Output polarity		Acceleration into the base produces positive output
Resistance	GΩ	≥ 10
Capacitance	pF	800
Grounding		Signal ground common to transducer case
Environmental characteristics		
Temperature range		-67°F to +350°F (-55°C to +177°C)
Humidity		Epoxy sealed, non-hermetic
Sinusoidal vibration limit	g pk	1000
Shock limit	g pk	2000
Base strain sensitivity	equiv. g pk/μ strain	0.002
Thermal transient sensitivity	equiv. g pk/°F (/°C)	0.001 (0.002)
Electromagnetic sensitivity	equiv. g rms/gauss	0.0001
Physical characteristics		
Dimensions		See outline drawing
Weight	gm (oz)	16 (0.56)
Case material		303 stainless steel
Connector		Coaxial, 10-32 thread, mates with Endevco 3000 series cable
Mounting torque	lbf-in (Nm)	18 (2)
Calibration		
Supplied:		
Charge sensitivity	pC/g	
Capacitance	pF	
Maximum transverse sensitivity	%	
Charge frequency response	%	20 to 6 kHz
	dB	6 kHz to 40 kHz

Piezoelectric accelerometer

Model 2224C

Accessories

Product	Description	2224C	2224C-R
3090C-120 (10 ft)	Cable assembly	Included	Optional
2981-12	Mounting stud, 10-32, Hex I.D.	Included	Included
EHM464	Wrench, Hex key	Included	Optional
2981-3	Mounting stud, 10-32 to 10-32	Optional	Optional

Notes

1. Low-end response of the transducer is a function of its associated electronics.
2. Short duration shock pulses, such as those generated by metal-to-metal impacts, may excite transducer resonance and cause linearity errors. Send for TP290 for more details.
3. Maintain high levels of precision and accuracy using Endevco's factory calibration services. Call Endevco's inside sales force at 866-ENDEVCO for recommended intervals, pricing and turn-around time for these services as well as for quotations on our standard products.

Contact

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[+1 (866) 363-3826]

APPLIES TO CALIFORNIA FACILITY

Continued product improvement necessitates that Endevco reserve the right to modify these specifications without notice. Endevco maintains a program of constant surveillance over all products to ensure a high level of reliability. This program includes attention to reliability factors during product design, the support of stringent Quality Control requirements, and compulsory corrective action procedures. These measures, together with conservative specifications have made the name Endevco synonymous with reliability. 082719

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