

Piezoelectric accelerometer

Model 2229C



The model 2229C features Endevco's Piezite[®] type P-8 crystal element, operating in annular shear mode. This device exhibits excellent output sensitivity stability over time. Signal ground is isolated from the mounting surface of the unit. A low-noise, flexible, coaxial cable is supplied for error-free operation.

Endevco signal conditioner models 2771C, 2775B or Oasis 2000 computer-controlled system are recommended for use with this high impedance accelerometer.

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Piezoelectric accelerometers | Piezoresistive accelerometers | IEPE accelerometers | Variable capacitance accelerometers | Piezoresistive pressure sensors | Piezoelectric pressure sensors | High intensity microphones | Inertial sensors | Signal conditioners and supportive instrumentation | Cable assemblies



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Specifications

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Specifications		
The following performance specifications conform t unless otherwise noted. Calibration data, traceable	o ISA-RP-37.2 and are typical to National Institute of Standa	values, referenced at +75°F (+24°C), 100 Hz, ards and Technology (NIST), is supplied
Dynamic characteristics	Units	Value
		2.0
Minimum	pC/g	2.0
Frequency response	po/g	See typical amplitude response
Resonance frequency	kНz	21 (typical)
Amplitude response [1]		
±5%	Hz	1 to 5000
±1 dB	Hz	.5 to 7000
Temperature response		See typical curve
Transverse sensitivity	%	≤5
Amplitude linearity Per 500 g, 0 to 2000 g	%	
Electrical characteristics		
Output polarity		Acceleration directed into hace produces positive output
Resistance	60	
Isolation	ΜΩ	
Capacitance	pF	400
Grounding		Signal return is isolated from case
Environmental characteristics Temperature range Humidity Sinusoidal vibration limit Shock limit [2] Base strain sensitivity Thermal transient sensitivity Electromagnetic sensitivity	g pk g pk equivig pk/µstrain aquivig /°F (/°C) equiv.g/ rms/gauss	-67°F to +350°F [-55°C to +177°C] Epoxy sealed, non-hermetic 1000 2000 0.0005 0.004 (0.007) 0.001
Physical characteristics		
Dimensions		See outline drawing
Weight	oz (gm)	0.17 (4.9)
Case material	•	Stainless steel
Connector Mounting torque	lbf in (Nm)	COaxial, TU-32 INFEAD. MALES WILN ENDEVCO SUGUD CADLE
Calibration Supplied:		16 (2)
	pu/g	
Maximum transverse sensitivity	% hL	
Frequency response	%	20 Hz to 5000 Hz
	dB	5 kHz to 30 kHz



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Accessories:

Product	Description	2229C
3060D-120	Cable assembly, 10 ft	Included
2771C	In-line charge connector	Optional
2775B	Signal conditioner	Optional
4990A-X	OASIS 2000 computer-controlled system	Optional



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Notes:

1. Low-end response of the transducer is a function of its associated electronics.

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- 2. Short duration shock pulses, such as those generated by metal-to-metal impacts, may excite transducer resonance and cause linearity errors. Request the TP290 for more details.
- 3. Flexible cable, such as the supplied 3060D, should be used to minimize cable-strain errors.
- 4. 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.



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. 100119