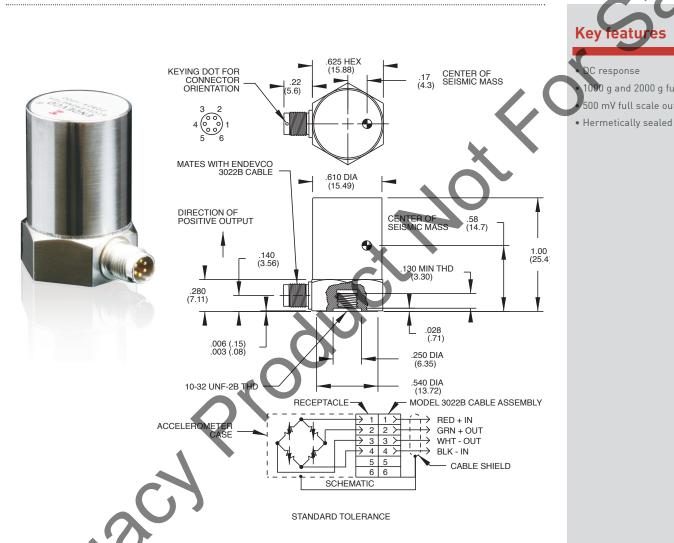


C response

000 g and 2000 g full range 00 mV full scale output

Piezoresistive accelerometer

Model 2262A



The Endevco® model A accelerometers are rugged, fluid damped transducers of the piezoresistive type. Endevco's Piezite type P-11 semiconductor strain gage elements are used in a bridge configuration, providing a low impedance output with 10 Vdc excitation. The output is high enough to drive most tape recorders, data aquisition systems, and low frequency galvanometers directly, without amplification. Viscous damping extends their useful frequency range and reduces the effect of spurious, high frequency vibrations

Typical applications for these accelerometers include transportation environmental testing and transient accelerations on structural members.

Endevco model 126, 136 or 436 recommended as signal conditioner and power supply.

ENDEVCO Tel: +1 (866) ENDEVCO [+1 (866) 363-3826] www.endevco.com



Piezoresistive accelerometer

Model 2262A

Specifications

Performance characteristics: All values are typical at +75°F (+24°C), 100 Hz and 10 Vdc excitation unless otherwise stated. Calibration data, traceable the National Institute of Standards and Technology (NIST), is supplied.

-1000

±1000

1 to 1500

1 to 1800

0.50

8000

0.7

±2 3 ±25 ±20 -2000

±2000

0 to 3000

0 to 3600 +5

10 000

0.7

0.25

	Units
Range	g pk
Sensitivity (at 100 Hz)	mV/g Typ
Amplitude response	
±5%	Hz
±1 dB	Hz
Maximum deviation (0 Hz to 2000 Hz) [1]	% Max
Mounted resonance frequency	Hz typ
Damping ratio [2]	Тур
Non-linearity and hysteresis	
(% of reading, to full range)	% Max
Transverse sensitivity	% Max
Zero measurand output [3]	mV Max
Thermal zero shift	ref. 75°F(24°C)
From 0° F to +200 $^{\circ}$ F (-18 $^{\circ}$ C to +93 $^{\circ}$ C)	mV Max
Thermal sensitivity shift	ref. 75°F(24°C)
From 0° F to +150 $^{\circ}$ F (-18 $^{\circ}$ C to +66 $^{\circ}$ C)	% Typ
Warm up time	Minutes max

Electrical

Excitation [4] [5] Input resistance Output resistance [4] [6] Insulation resistance

Physical

Case, material Electrical, connections Indentification Mounting/torque Weight

Environmental

Acceleration limits (in any direction)
Static

Sinusoidal vibration
Shock limit (half-sine pulse)
Base strain sensitivity
(at 250 microstrain)

Temperature
Operating
Storage
Humidity
Altitude

Calibration data supplied [7]

Sensitivity (at 100 Hz and 10 g pk) Frequency response

Zero measurand output Maximum transverse sensitivity Input and output resistance 10.0 Vdc maximum, 15 Vdc maximum

600 ohms 400 ohms

100 megohms minimum at 100 Vdc, all leads to case

Stainless steel (416 CRES)
Endevco model 3022B-30 (supplied)

Manufacturer's logo, model number g, serial number and range Hole for 10: 32 UNF x 1/8 inch mounting stud/18 lbf-in (2Nm)

28 grams (cable weighs 18 grams/meter)

g	1000	2000
g pk	1000	2000
g	2500	5000
equiv. q typ	0.05	0.05

0°F to +200°F (-18°C to 93°C) -20°F to +220°F (-29°C to +104°C) Unaffected. Unit is hermetically sealed

Unaffected

mV/g

20 Hz to 5000 Hz; % deviation reference 100 Hz

mV

% of sensitivity



Piezoresistive accelerometer

Model 2262A

Accessories

Product	Description	2262A-1000, -2000
2981-12	Mounting stud (10-32 UNF-2A)	Included
3022B-30	Cable assembly	Included
EHM464	Wrench, hex key	Included
2950	Triaxial mounting block	Optional
2981-4	Mounting stud (M5-0.8)	Optional
3022B-XX	Cable assembly (XX identifies cable length in inches)	Optional
2981-3	Mounting stud	Optional

- 1. The sensitivity increase at the mounted resonant frequency is less than 10%, reference 100 H
- 2. Damping ratio is 2.2/0.2, typical, at 0°F/200°F (-18°/+93°C).
- 3. Zero Measurand Output (ZMO) is the transducer output with 0 acceleration applied.
- 4. Rated excitation is 10.0 Vdc. The strain gage elements have a positive temperature coefficient of approximately 0.5% per °F. Power supply current capability (regulation) should be carefully considered when operating at low temperature extremes, especially when exciting more than one transducer from a single power
- 5. Other excitation voltages may be used to 15.0 Vdc. Specify at time of order to obtain a more accurate calibration.
- 6. Measured at approximately 1 Vdc. Bridge resistance increases with applied voltage due to heat dissipation in the strain gage elements.
- 7. 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.



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