

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

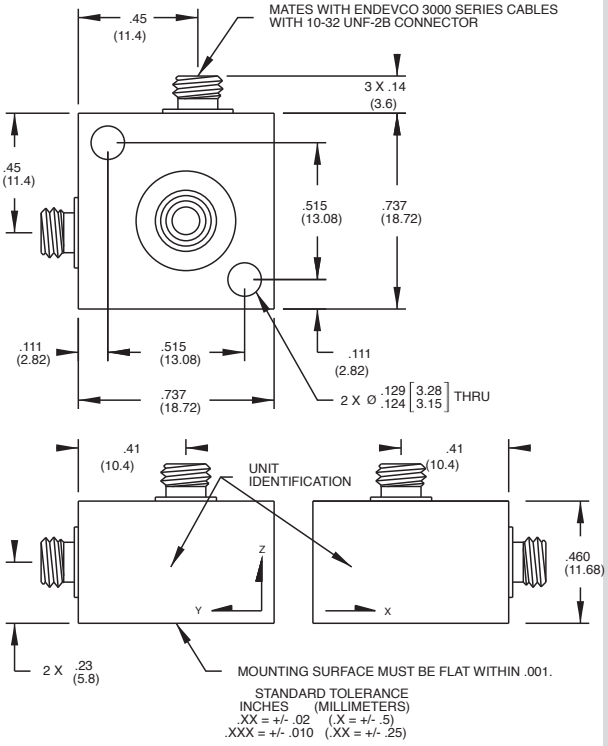
Visit our website - *Click HERE*

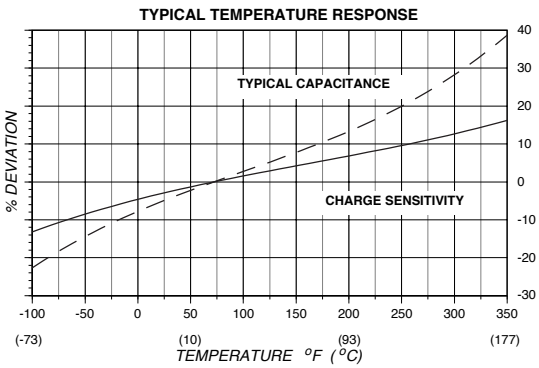
ENDEVCO
AN AMPHENOL COMPANY

Piezoelectric accelerometer

Model 2228C







Key features

- NEW! 2228C-R available as replacement sensor
- Triaxial
- Ground isolated
- Light weight (15 gm)
- Requires no external power
- Vibration measurement in three orthogonal axis

The Endevco® model 2228C is a small triaxial piezoelectric accelerometer designed specifically for vibration measurement in three orthogonal axes on small structures and objects. The transducer features three 10-32 receptacles for output connection and can be screw or adhesively mounted. Its light weight (15 gm) effectively minimizes mass loading. The accelerometer is a self-generating device that requires no external power source for operation.

The model 2228C features Endevco's Piezite® type P-8 crystal elements operating in annular shear mode. This unit exhibits excellent output sensitivity stability over time. Signal ground is isolated from the mounting surface of the unit. Low-noise, flexible coaxial cables are supplied for error-free operation.

Endevco signal conditioner models 133, 2771C, 2775B, 6634C or OASIS 2000 computer-controlled system 4990A-X are recommended for use with this high impedance accelerometer.

ENDEVCO
AN AMPHENOL COMPANY

Piezoelectric accelerometer

Model 2228C

Specifications

The following performance specifications conform to ISA-RP-37.2 (1964) and are typical values, referenced at +75°F (+24°C), 4 mA and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied

Dynamic characteristics	Units	
Charge sensitivity		
Typical	pC/g	2.8
Minimum	pC/g	2.2
Frequency response		See typical amplitude response
Resonance frequency	kHz	21
Amplitude response [1]		
±5%	Hz	1 to 4000
±1 dB (ref)	Hz	0.1 to 6000
Temperature response		See typical curve
at -67°F (-55°C) max/min	%	-12 / 0
at +350°F (+177°C) max/min	Hz	20 / 0
Transverse sensitivity	%	≤5
Amplitude linearity	%	1
Per 500g, 0 to 2000 g		

Electrical characteristics		
Output polarity		Acceleration applied in the direction of the axis arrow produces positive output
Resistance	GΩ	≥10
Resistance at +350°F (+177°C)	GΩ	≥5
Isolation	MΩ	≥10
Signal ground to each signal ground and to mounting surface		
Capacitance	pF	400
Grounding		Each sensor is isolated from the anodized aluminum 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 [2]	g pk	2000
Salt spray		Will meet ML-E-5272C, para 4.6.1 when used with sealed connector
Electromagnetic sensitivity	equiv. g rms/gauss	0.01

Physical characteristics		
Dimensions		See outline drawing
Weight	gm (oz)	15 (0.53)
Case material		Aluminum alloy case, hard adonized, nickel alloy sensors
Connector		Mates with Endevco 3060 series cable
Mounting torque	lbf-in (Nm)	8 (1)

Calibration		
Supplied:		
Charge sensitivity	pC/g	
Capacitance	pF	
Maximum transverse sensitivity	%	
Charge frequency response	%	20 to 4000 Hz
	dB	thru resonance (Z axis only)

Piezoelectric accelerometer

Model 2228C

Accessories

Product	Description	2228C	2228C-R
3060D-120 [3]	Cable assembly, three each [3], 10 ft	Included	Optional
EH156	4-40 x 5/8 socket head cap screws two each	Included	Included
EHW53	No. 4 flat washer, two each	Included	Included
EHM464	Hex wrench	Included	Optional
2771C	In-line charge convertor	Optional	Optional
133	Signal conditioner	Optional	Optional
2775B	Signal conditioner	Optional	Optional
4990A-1	OASIS 2000 computer-controlled system	Optional	Optional
6634C	Signal conditioner	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. Read TP290 for more details.
3. Flexible cable, such as the supplied 3060D, should be used to minimize cable-strain errors.
4. Adhesives such as petro-wax, hot-melt glue, and cyanoacrylate epoxy (super glue) may be used to mount the accelerometer temporarily to the test structure. An adhesive mounting kit (P/N 31849) is available as an option from Endevco. To remove an epoxy-mounted accelerometer, first soften the epoxy with an appropriate solvent and then twist the unit off with the supplied removal wrench. Damage to sensors caused by inappropriate removal procedures are not covered by Endevco's warranty.
5. 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

ENDEVCO

www.endevco.com

Tel: +1 (866) ENDEVCO

[+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. 090119

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP