

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

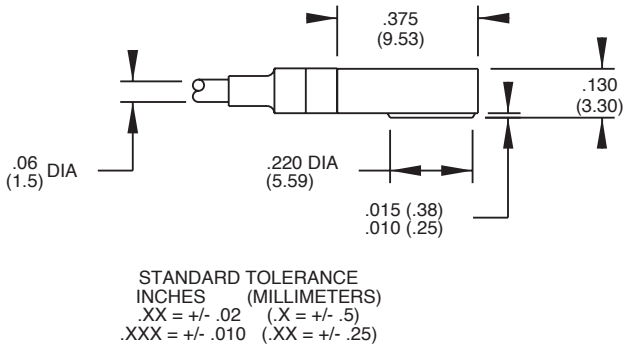
All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Visit our website - *Click HERE*

ENDEVCO
AN AMPHENOL COMPANY

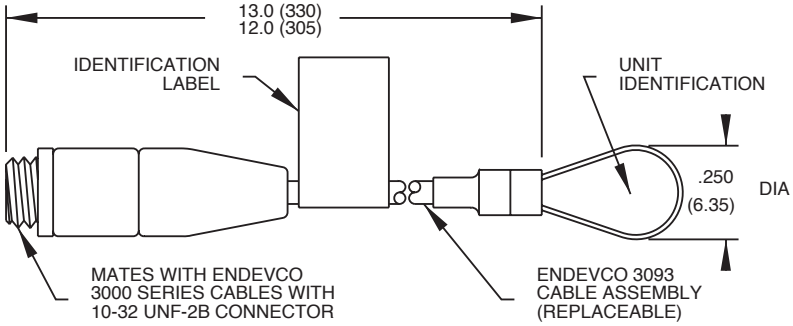
Piezoelectric accelerometer

Model 2222C



STANDARD TOLERANCE
INCHES (MILLIMETERS)
.XX = +/- .02 (.X = +/- .5)
.XXX = +/- .010 (.XX = +/- .25)





Key features

- Light weight (0.5 gm)
- Adhesive mounting
- Ground isolated
- Small structure vibration measurement

Description

The Endevco® model 2222C is a miniature piezoelectric accelerometer for vibration measurement on mini-structures and small objects. Its light weight (0.5 gm without the low-noise replaceable cable) effectively minimizes mass loading. The accelerometer is a self-generating device that requires no external power source for operation

The model 2222C features Endevco's Piezite® type P-8 crystal element operating in the radial shear mode. This sensor exhibits excellent output sensitivity stability over time. Signal ground is isolated from the mounting surface of the unit by a hard anodized surface. A specially designed low noise coaxial cable is supplied for error-free operation. Unit and cable removal tools are included in the package to ensure proper removal in the field.

Piezoelectric accelerometer | Model 2222C

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

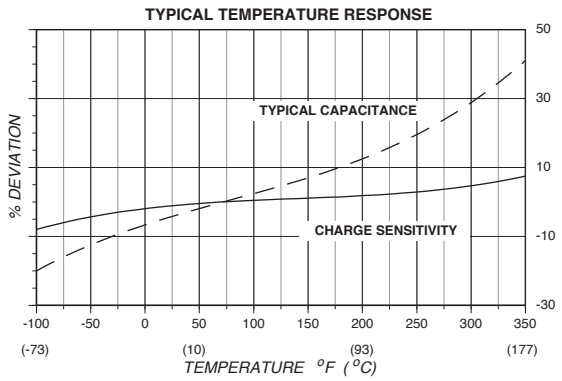
Specifications

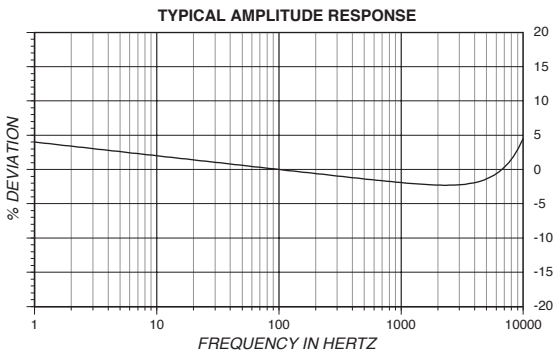
Dynamic characteristics	Units	
Charge sensitivity		
Typical	pC/g	1.4
Minimum	pC/g	1.0
Frequency response		See typical amplitude response
Resonance frequency (typical)	kHz	32
Minimum	kHz	25
Amplitude response [1]		
±10%	Hz	1 to 8,000
±1 dB (ref)	Hz	1 to 10,000
Temperature response		See typical curve
-67°F (-55°C) max/min	%	-15/0
+350°F (+177°C) max/min	%	+15/0
Transverse sensitivity	%	≤ 5
Amplitude linearity	%	1
Per 200g, 0 to 2000 g		
Electrical characteristics		
Output polarity		Acceleration applied in the direction of the arrow on the unit produces positive output
Resistance *(with 3093M10-12 cable)*	GΩ	≥10
at +350°F (+177°C) *(with 3093M10-12 cable)*	GΩ	≥0.5
Isolation	MΩ	≥1 at 100 Vdc
Capacitance	pF	470
Grounding		Signal return isolated from mounting surface
Environmental characteristics		
Temperature range		-100˚F to +350˚F (-73˚C to +177˚C)
Humidity [2]		Sealed by silicone compound
Sinusoidal vibration limit [3]	g pk	1000
Shock limit [4]	g pk	10,000
Base strain sensitivity	equiv. g/μ strain	0.04
Thermal transient sensitivity	equiv. g pk/˚F (/˚C)	0.05 (0.09)
Physical characteristics		
Dimensions		See outline drawing
Weight *(sensor)*	gm (oz)	0.5 (0.018)
Weight *(cable-12" long)*	gm (oz)	3.7 (0.13)
Case material		material Aluminum, hard anodized
Connector		3093-12 cable assembly
Mounting [5]		Adhesive
Calibration data		
Supplied:		
Charge frequency response	%	20 Hz to 10,000 Hz
Charge sensitivity	pC/g	
Maximum transverse sensitivity	%	
Capacitance	pF	

Accessories			
Product	**Description**	**2222C**	**2222C-R**
2943B	Removal tool	Included	Optional
3093M10-12	Cable assembly, attached, 1 ft	Included	Included
3090C-120	Cable assembly, 10 ft	Included	Optional
16205	Cable wrench	Included	Optional
32279	Mounting wax	Optional	Optional
2771C	In-line charge convertor for use with constant current source	Optional	Optional
2961	Triaxial mounting block	Optional	Optional
3090C-XXX	Cable assembly	Optional	Optional
3095A-XXX	Cable assembly	Optional	Optional

Notes

1. Low-end response of the transducer is a function of its associated electronics.
2. Removing cable exposes accelerometer interior to environment. See Piezoelectric Instruction Manual before replacing cable assembly.
3. When exposed to high g and large displacement, the cable must be tied down as close to the accelerometer as possible to prevent cable whip and subsequent cable failure.
4. Short duration shock pulses, such as those generated by metal-to-metal impacts, may excite transducer resonance and cause linearity errors. See TP290 for more details.
5. 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. 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.
6. 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.





ENDEVCO
AN AMPHENOL COMPANY
10869 NC Highway 903, Halifax, NC 27839 USA
endevco.com | sales@endevco.com | 866 363 3826

© 2022 PCB Piezotronics - all rights reserved. PCB Piezotronics is a wholly-owned subsidiary of Amphenol Corporation. Endevco is an assumed name of PCB Piezotronics of North Carolina, Inc., which is a wholly-owned subsidiary of PCB Piezotronics, Inc. Accumetrics, Inc. and The Modal Shop, Inc. are wholly-owned subsidiaries of PCB Piezotronics, Inc. IMI Sensors and Larson Davis are Divisions of PCB Piezotronics, Inc. Except for any third party marks for which attribution is provided herein, the company names and product names used in this document may be the registered trademarks or unregistered trademarks of PCB Piezotronics, Inc., PCB Piezotronics of North Carolina, Inc. (d/b/a Endevco), The Modal Shop, Inc. or Accumetrics, Inc. Detailed trademark ownership information is available at www.pcb.com/trademarkownership.

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