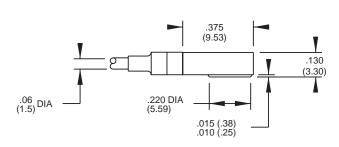
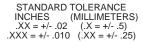
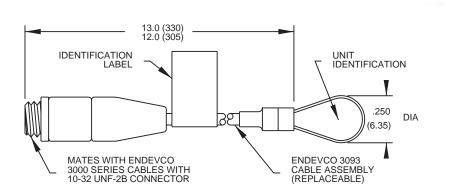


Piezoelectric accelerometer

Model 2222C







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 $+75^{\circ}F$ ($+24^{\circ}C$), 4 mA and 100 Hz, unless otherwise noted. Calibration data, traceable to National Institute of Standards and Technology (NIST), is supplied

Units	
Offics	
pC/g	1.4
pC/g	1.0
	See typical amplitude response
kHz	32
kHz	25
Hz	1 to 8,000
Hz	1 to 10,000
	See typical curve
%	-15/0
%	+15/0
%	≤ 5
%	1
	A last the least the second second
	Acceleration applied in the direction of the arrow on the unit
	produces positive output
	≥10
	≥0.5
	≥1 at 100 Vdc
ρF	470
	Signal return isolated from mounting surface
	-100°F to +350°F (-73°C to +177°C)
	Sealed by silicone compound
g pk	1000
	10,000
	0.04
	0.05 (0.09)
31 7 7 7	
	See outline drawing
()	
•	0.5 (0.018)
gm (oz)	3.7 (0.13)
	material Aluminum, hard anodized
	3093-12 cable assembly
	Adhesive
%	20 Hz to 10,000 Hz
pC/g	·
%	
	pC/g kHz kHz Hz Hz Hz % % % % % g ρ k g ρ k g p k equiv. g/μ strain equiv. g p k/° F (/° C) gm (oz) gm (oz)

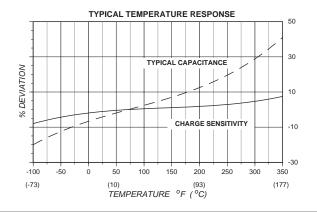
Piezoresistive accelerometer | Model 2221F

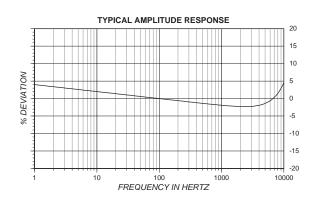
Accessories			
Description	2222C	2222C-R	
Removal tool	Included	Optional	
Cable assembly, attached, 1 ft	Included	Included	
Cable assembly, 10 ft	Included	Optional	
Cable wrench	Included	Optional	
Mounting wax	Optional	Optional	
In-line charge convertor for use with constant current source	Optional	Optional	
Triaxial mounting block	Optional	Optional	
Signal conditioner	Optional	Optional	
Cable assembly	Optional	Optional	
Cable assembly	Optional	Optional	
	Removal tool Cable assembly, attached, 1 ft Cable assembly, 10 ft Cable wrench Mounting wax In-line charge convertor for use with constant current source Triaxial mounting block Signal conditioner Cable assembly	Removal tool Included Cable assembly, attached, 1 ft Included Cable assembly, 10 ft Included Cable wrench Included Mounting wax Optional In-line charge convertor for use with constant current source Optional Triaxial mounting block Optional Signal conditioner Optional Cable assembly Optional	

Options	
Options	Description
M7	Connector: 6-40 UNF-2A thread, ships with 3091F-120 cable

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.







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