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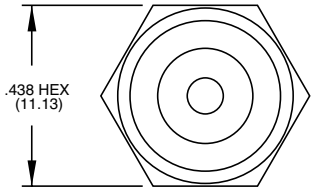
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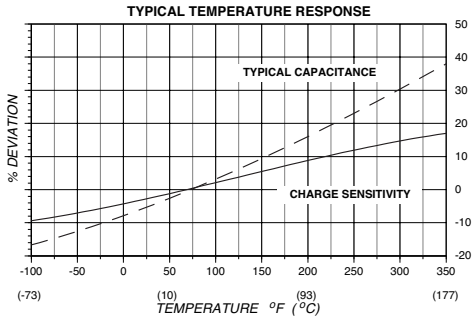
ENDEVCO
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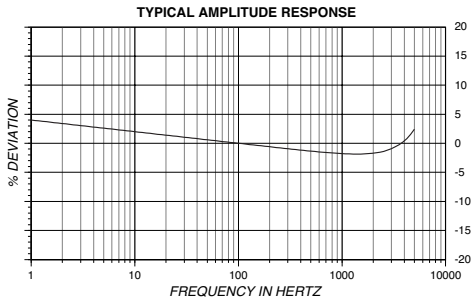
# Piezoelectric accelerometer

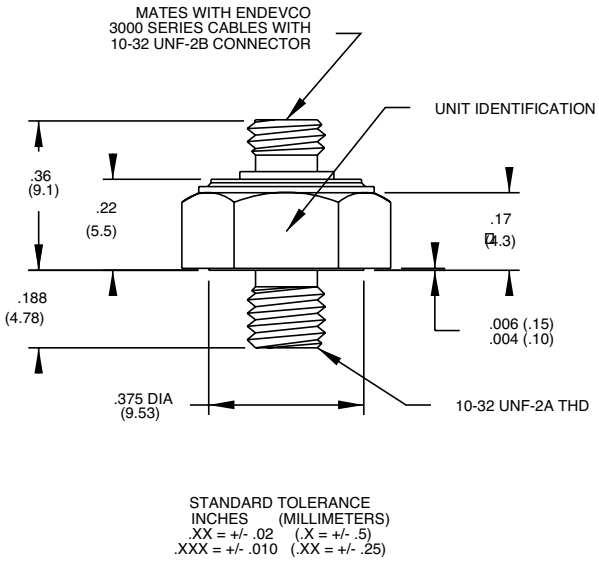
## Model 2229C




The Endevco® model 2229C is a miniature, stud mounted piezoelectric accelerometer designed specifically for vibration measurement on small structures and objects. The transducer features a top-mounted 10-32 receptacle for installation convenience in tight space. Its light weight (4.9 gm) effectively minimizes mass loading. The accelerometer is a self-generating device that requires no external power source for operation.

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.**

## Key features

- Ground isolated
- Top connector
- Stud mounted
- Requires no external power
- Vibration measurement on small structures

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# Piezoelectric accelerometer

## Model 2229C

## Specifications

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

| Dynamic characteristics | Units | Value |
|---|---|---|
| **Charge sensitivity** | | |
| **Typical** | pC/g | 2.8 |
| **Minimum** | pC/g | 2.2 |
| **Frequency response** | | See typical amplitude response |
| **Resonance frequency** | kHz | 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** | % | 1 |
| **Per 500 g, 0 to 2000 g** | | |

| Electrical characteristics | | |
|---|---|---|
| **Output polarity** | | Acceleration directed into base produces positive output |
| **Resistance** | GΩ | ≥ 10 |
| **Isolation** | MΩ | 10 |
| **Capacitance** | pF | 400 |
| **Grounding** | | Signal return is isolated from 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 |
| **Base strain sensitivity** | equiv. g pk/μ strain | 0.0005 |
| **Thermal transient sensitivity** | equiv. g/°F (/°C) | 0.004 (0.007) |
| **Electromagnetic sensitivity** | equiv. g/ rms/gauss | 0.001 |

| Physical characteristics | | |
|---|---|---|
| **Dimensions** | | See outline drawing |
| **Weight** | oz (gm) | 0.17 (4.9) |
| **Case material** | | Stainless steel |
| **Connector** | | Coaxial, 10-32 thread. Mates with Endevco 3060D cable |
| **Mounting torque** | lbf-in (Nm) | 18 (2) |

| Calibration | | |
|---|---|---|
| **Supplied:** | | |
| **Charge sensitivity** | pC/g | |
| **Capacitance** | pF | |
| **Maximum transverse sensitivity** | % | |
| **Frequency response** | % | 20 Hz to 5000 Hz |
| | dB | 5 kHz to 30 kHz |

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# Piezoelectric accelerometer

## Model 2229C

**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 |

**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. 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.

## Contact

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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

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