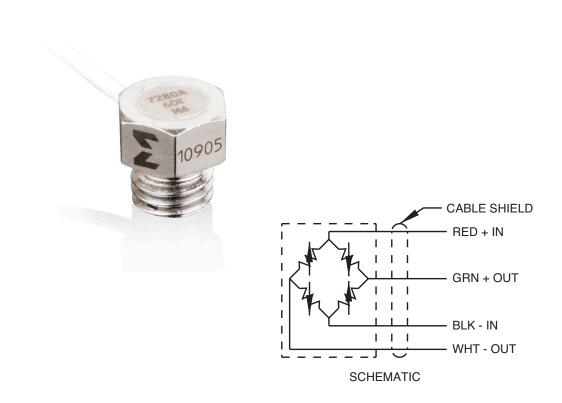


Piezoresistive accelerometer

Model 7280AM4



The Endevco® model 7280AM4 is a family of rugged lightly damped piezoresistive accelerometers designed for high amplitude acceleration, vibration and shock applications. The model 7280AM4 features minimal mass loading, broad frequency response, and minimum zero shift during a shock event.

The model 7280AM4 uses a unique micro-machined, piezoresistive sensor with light gas damping to attenuate resonant amplitudes, and mechanical stops to reduce breakage under overload conditions. The monolithic sensor incorporates the latest MEMS technology for ruggedness, stability and reliability to 4X full scale range. The accelerometer features a four-active arm bridge circuit. The M4 modification provides in integral ¼-28 mounting stud in a light 2.1 gram package. This increases the housing stiffness, which is important for short duration shock measurements.

See model 7280A for integral 4-40 screw mount configuration.

US patent 6,988,412 applies to this unit

Key features

- 20 000 g and 60 000 g ranges
- Lightly damped for exceptional survivability
- DC response
- Low power consumption
- -55°C to +121°C operating temperature
- Minimal zero shift after shock
- Pyrotechnic and penetration

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Piezoelectric accelerometers | Piezoresistive accelerometers | IEPE accelerometers | Variable capacitance accelerometers | Piezoresistive pressure sensors | Piezoelectric pressure sensors | High intensity microphones | Inertial sensors | Signal conditioners and supportive instrumentation | Cable assemblies



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Accessories

Product	Description	
32103	Triaxial mounting block	Optional
136	DC amplifier, 3 channel benchtop	Optional
4430A	Ultra low noise bridge signal conditioner	Optional

Model number definition

7280A M4-XXX-YY-ZZZ

 Cable length in inches (omit for default length of 92 inches) for lengths <= 10 ft specify 1 ft increments (60", 72" 120") for lengths > 10 ft specify 5 ft increments (180", 240") Excitation voltage (omit for default voltage of 10 Vdc) example: 7280AM4-XXX-2.5-ZZZ has an excitation voltage of 2.5 Vdc
Modifier
——— Basic model number

Notes:

 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.

This product is subject to International Traffic in Arms Regulations (ITAR), and as such a license is required for shipments outside the U.S. and other restrictions may apply.

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. 091819