ISOTRON® Accelerometer

Model 25A

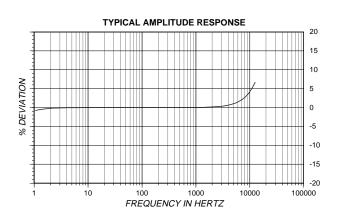
- World's Smallest ISOTRON
- Light Weight (0.2 gm)
- Flexible, Replaceable Cable
- Low Impedance Output
- Excellent for Printed Circuit Board and Disk Drive Testing

DESCRIPTION

The ENDEVCO[®] Model 25A ISOMIN[™] is an extremely small, adhesive mounted piezoelectric accelerometer with integral electronics, designed specifically for measuring vibration on very small objects. The unit weighs only 0.2 gm, reducing unwanted mass loading effects. The unit comes with two pre-installed fine gage (34 AWG) wires as output leads. These leads can be easily repaired in the field, or a new lead assembly may be reinstalled at the factory. A heavier gage (28 AWG) cable is also provided for extension purpose. The Model 25A is ideal for measuring vibration in scaled models, small electronic components, and biomedical research. An optional triaxial mounting block (Model 2950M16) is available for setting up three-axis measurement.

The Model 25A features ENDEVCO's PIEZITE[®] Type sensing element operating in shear mode. The internal electronics inside the accelerometer converts high impedance input into low impedance voltage output through the same cable that supplies the required 4 mA constant current power. Signal ground is isolated from the mounting surface of the unit by a hard anodized surface. A removal tool is included for proper removal in the field.

ENDEVCO Signal Conditioner Models 133, 4416B, 2792B, 2793, 2775A (set to 4 mA \pm 0.5 mA), are recommended for use with this accelerometer.

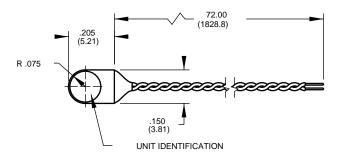


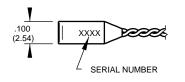




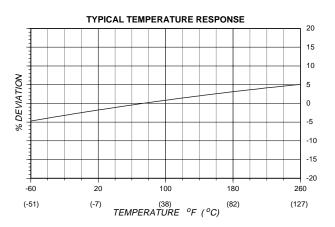
ENDEVCO MODEL

25A





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









ENDEVCO MODEL 25A

ISOTRON® Accelerometer

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.

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Biased Decoupling Output Output Output	TRANSVERSE SENSITIV FREQUENCY RESPONS ACCESSORIES Model 3024-120 (10 ft) P/N 31275 OPTIONAL ACCESSORI Model 2950M16 P/N 31849 P/N 32227 NOTES 1. Excessive current sup accelerometer. 2. Short duration shock p to-metal impacts, may earity errors. Send fo 3. Depending on the dyn	E CABLE ASSEMBLY, TWIS REMOVAL TOOL MOUNTING WAX ES TRIAXIAL MOUNTING BL ADHESIVE MOUNTING K MOUNTING WAX ply may cause permanent bulses, such as those gene excite transducer resonan TP290 for more details. amic and environmental re	OCK IT damage to erated by metal- ice and cause lin- equirements,	 temporarily to the test structure. An adhesive mounting kit (P. 31849) is available as an option from Endevco. When remove an epoxy-mounted accelerometer, first soften the epoxy with appropriate solvent, then twist the unit off with the supplied removal tool. Failure to heed this caution may cause perman damage to the transducer, which is not covered under warran 4. Small gage wires are soldered to the terminals at the factory. They are to be spliced together with the supplied cable assent in the field for extension purpose. Maintain high levels of precision and accuracy using Endevcc factory calibration services. Call Endevco's inside sales force 800-982-6732 for recommended intervals, pricing and turnaround time for these services as well as for quotations on oustandard products.
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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.

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