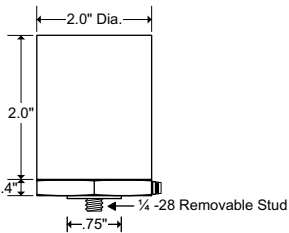


Models 1030

High Output Seismic Accelerometer



DESCRIPTION AND FEATURES

Originally designed specifically for the U.S. Geological Survey, this sensor provides ultra-low frequency and ultra-low noise with very high output.

The Model 1030 is ideal for making high resolution structural and floor vibration measurements for sensitive equipment such as electron microscopes, micro-lithography for semiconductor fabrication, micro-machining and more.

- 5000 mV/g Minimum Output
- Ultra-Low Noise
- Ultra-Low Frequency
- Removable 1/4-28 Mounting Stud

APPLICATIONS

- Seismic/Mining
- Building/Structural
- Bridges
- Experimental
- Wafer Fabrication
- Precision Printing
- Microscopes
- Intrusion Detection

OPERATING SPECIFICATIONS

Dynamic

Sensitivity, minimum @ 50 Hz	.....5,000 mV/g 510 mV/(m/s ²)
Frequency Range $\pm 5\%$	..... 0.1 Hz - 180 Hz
Frequency Range $\pm 10\%$	..... 0.07 Hz - 200 Hz
Frequency Range ± 3 dB	..... 0.03 Hz - 240 Hz
Turn-On Time	..... < 120 Seconds
Amplitude Range ± 0.7 g
Mounted Resonance	..... 600 Hz
Transverse Sensitivity	..... < 5%

Electrical

Noise Broadband 2.5 Hz to 25 kHz	..... 2.8 μ g (rms)
Noise Spectral 10 Hz	..... 0.09 μ g/vHz
Noise Spectral 100 Hz	..... 0.03 μ g/vHz
Output Impedance (nominal)	..... 1000 Ω
Isolation	..... Isolated, > 100 Meg Ω
Bias Volts (nominal)	..... 7 VDC
Power Requirements	..... 15-30 VDC
Current Regulating Diode	..... 2-6 mA cc

Environmental

Temperature Range	..... -40 to 250°F / -40 to 121°C
Base Strain	..... 0.001 g peak/ μ strain
Shock Limit	..... 80 g

Physical

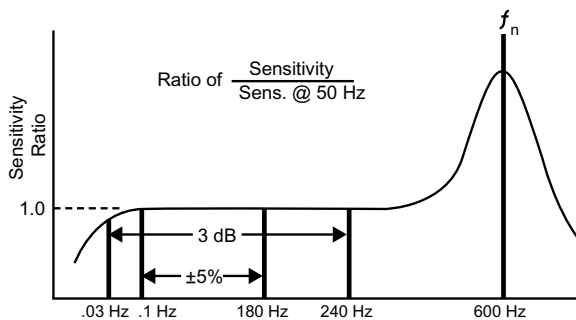
Dimensions	..... 2.5" h x 2" flats (6.4 x 5.1 cm)
Weight	..... 430 grams
Case Material	..... Hard Anodized Aluminum
Design	..... Piezoelectric Bender
Seal	..... Epoxy
Mounting	..... 1/4-28 Removable Stud
Mounting Torque	..... 35 in-lb (3.9 N-m)
Connector	..... Side Coaxial (SMA)

ORDERING INFORMATION AND ACCESSORIES

Model 1030, Mfr. Part No. 9353370

Sensors include

- NIST Traceable Calibration
- 1/4-28 Mounting Stud
- User Manual
- 1-Year Warranty



WORLDWIDE HEADQUARTERS:
 195 Clarksville Rd •
 Princeton Jct, NJ 08550 • USA
 T: +1.609.716.4000 • F: +1.609.716.0706
 E-MAIL: sales.systems@mistrasgroup.com

CANADA T: +1.403.556.1350
CHINA T: +86.10.5877.3672
FRANCE T: +331.498.26040
GERMANY T: +49.040.2000.4025
GREECE T: +30.210.2846.801

HOLLAND T: +31.010.245.0325
INDIA T: +91.22.2586.2444
JAPAN T: +81.33.498.3570
MIDDLE EAST T: +44(0)1954.231.612
RUSSIA T: +7495.789.4549

SCANDINAVIA T: +46(0)31.252040
S. AMERICA T: +55.11.3082.5111
UK T: +44(0)1954.231.612