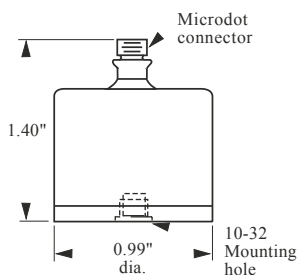


Model 731-207 Ultra low frequency seismic accelerometer



Features

- Compact construction to fit in tight spaces
- Ultra-high sensitivity
- Ultra low-noise electronics for clear signals at very low vibration levels
- Reverse wiring protection



Dynamic

Sensitivity, $\pm 10\%$, 25°C.....	10 V/g
Acceleration range.....	0.5 g peak
Amplitude nonlinearity.....	1%
Frequency response, nominal:	
$\pm 5\%$	0.6 - 650 Hz
$\pm 10\%$	0.5 - 850 Hz
± 3 dB.....	0.2 - 1,300 Hz
Resonance frequency, mounted, nominal.....	2.4 kHz
Transverse sensitivity, max.....	1% of axial
Temperature response:	
-0°C.....	-18%
+80°C.....	+8%

Electrical

Power requirement: voltage source.....	18 - 30 VDC
current regulating diode.....	2 - 10 mA
Electrical noise, equiv. g, nominal:	
Broadband 2.5 Hz to 25 kHz.....	2 μ g
Spectral 2 Hz.....	0.28 μ g/ $\sqrt{\text{Hz}}$
10 Hz.....	0.09 μ g/ $\sqrt{\text{Hz}}$
100 Hz.....	0.03 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max.....	500 Ω
Bias output voltage, nominal.....	10 VDC
Grounding.....	case grounded

Environmental

Temperature range.....	0 to 80°C
Vibration limit.....	50 g peak
Shock limit.....	250 g peak
Electromagnetic sensitivity @60 Hz.....	20 μ g/gauss
Base strain sensitivity.....	0.0005 g/ μ strain
sealing.....	hermetic design

Physical

Weight.....	50 grams
Case material.....	316L stainless steel
Mounting.....	10-32 UNF
Output connector.....	10-32 coaxial

Accessories supplied: Calibration data; SF1 mounting stud

Accessories available: R1-2-J93-10 cable assembly, magnetic mounting bases, SF5 cementing studs, SF4 isolation mounting base, signal conditioners