

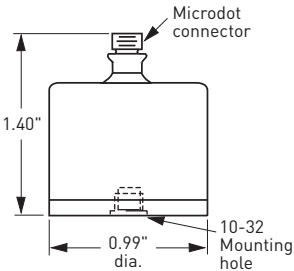


Model 731-207 Ultra low frequency seismic accelerometer



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/√Hz
10 Hz	0.09 μ g/√Hz
100 Hz	0.03 μ g/√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

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