

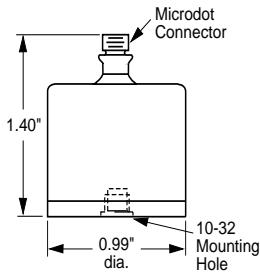


Model 731-207

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
- Miswiring protection



DYNAMIC

Sensitivity, $\pm 10\%$, 25°C	10 V/g
Acceleration Range	0.5 g peak
Amplitude Nonlinearity	1%
Frequency Response:	
$\pm 5\%$	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	see graph

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	0.12 μ g/ $\sqrt{\text{Hz}}$
10 Hz	0.06 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

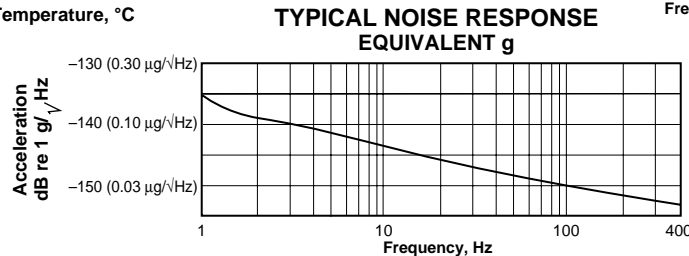
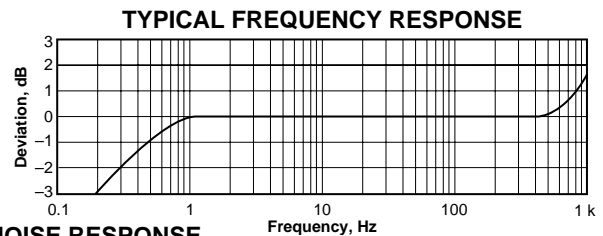
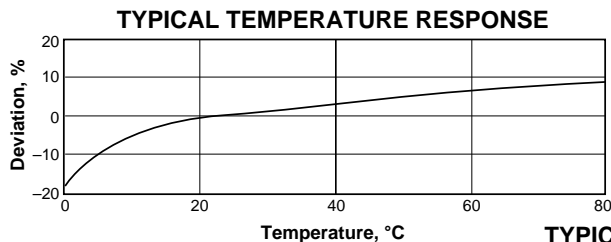
Temperature Range	0 to 80°C
Vibration Limit	50 g peak
Shock Limit	250 g peak
Electromagnetic Sensitivity @ 60 Hz	20 μ g/gauss
Base Strain Sensitivity	0.0005 g/ μ strain
Sealing	hermetic design

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.



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