

Compact, ultra low-frequency accelerometer

731-207

SPECIFICATIONS

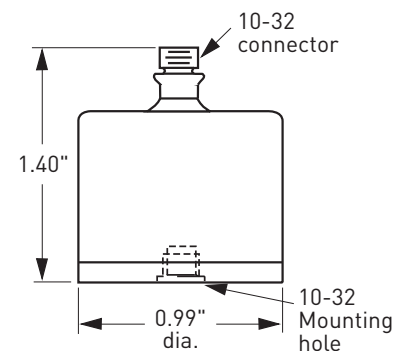
Sensitivity, $\pm 10\%$, 25°C		10 V/g
Acceleration range		0.5 g peak
Amplitude nonlinearity		1%
Frequency response, nominal:		
	$\pm 5\%$	0.6 - 650 Hz
	$\pm 10\%$	0.5 - 850 Hz
	± 3 dB	0.2 - 1,300 Hz
Resonance frequency, mounted, nominal		2.4 kHz
Transverse sensitivity, max		1% of axial
Temperature response:		
	0°C	-14%
	+70°C	+14%
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
Temperature range		0° to +70°C
Vibration limit		50 g peak
Shock limit		250 g peak
Electromagnetic sensitivity at 60 Hz		20 μ g/gauss
Sealing		hermetic
Base strain sensitivity		0.0005 g/ μ strain
Weight		50 grams
Case material		316L stainless steel
Mounting		10-32 UNF
Output connector		10-32 coaxial
Recommended cabling		J93

Accessories supplied: SF1 mounting stud; calibration data (level 3)



Key features

- Ultra high sensitivity
- Ultra low noise
- Ideal for seismic applications
- Manufactured in ISO 9001 facility



Note: Due to continuous process improvement, specifications are subject to change without notice. This document is cleared for public release.