

# Compact, ultra low-frequency accelerometer

## 731-207

### SPECIFICATIONS

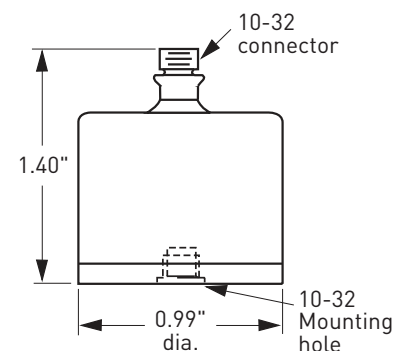
<b>Sensitivity, <math>\pm 10\%</math>, 25°C</b>		10 V/g
<b>Acceleration range</b>		0.5 g peak
<b>Amplitude nonlinearity</b>		1%
<b>Frequency response, nominal:</b>	$\pm 5\%$	0.6 - 650 Hz
	$\pm 10\%$	0.5 - 850 Hz
	$\pm 3$ dB	0.2 - 1,300 Hz
<b>Resonance frequency, mounted, nominal</b>		2.4 kHz
<b>Transverse sensitivity, max</b>		1% of axial
<b>Temperature response:</b>	0°C	-14%
	+80°C	+14%
<b>Power requirement:</b>		
Voltage source		18 - 30 VDC
Current regulating diode		2 - 10 mA
<b>Electrical noise, equiv. g, nominal:</b>		
Broadband	2.5 Hz to 25 kHz	2 $\mu$ g
Spectral	2 Hz	0.28 $\mu$ g/ $\sqrt{\text{Hz}}$
	10 Hz	0.09 $\mu$ g/ $\sqrt{\text{Hz}}$
	100 Hz	0.03 $\mu$ g/ $\sqrt{\text{Hz}}$
<b>Output impedance, max</b>		500 $\Omega$
<b>Bias output voltage, nominal</b>		10 VDC
<b>Grounding</b>		case grounded
<b>Temperature range</b>		0° to +80°C
<b>Vibration limit</b>		50 g peak
<b>Shock limit</b>		250 g peak
<b>Electromagnetic sensitivity at 60 Hz</b>		20 $\mu$ g/gauss
<b>Sealing</b>		hermetic
<b>Base strain sensitivity</b>		0.0005 g/ $\mu$ strain
<b>Weight</b>		60 grams
<b>Case material</b>		316L stainless steel
<b>Mounting</b>		10-32 UNF
<b>Output connector</b>		10-32 coaxial
<b>Recommended cabling</b>		J93

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



### Key features

- Ultra high sensitivity
- Ultra low noise
- Compact construction
- 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.