

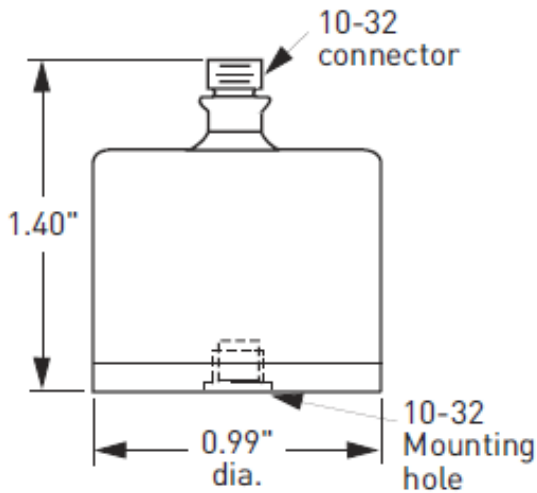
# Ultra low frequency seismic accelerometer 731-207



## Key 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

## Certifications



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

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**Wilcoxon Sensing Technologies**  
An Amphenol Company

# Ultra low frequency seismic 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 70° 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>	50 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

## Contact

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## 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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