

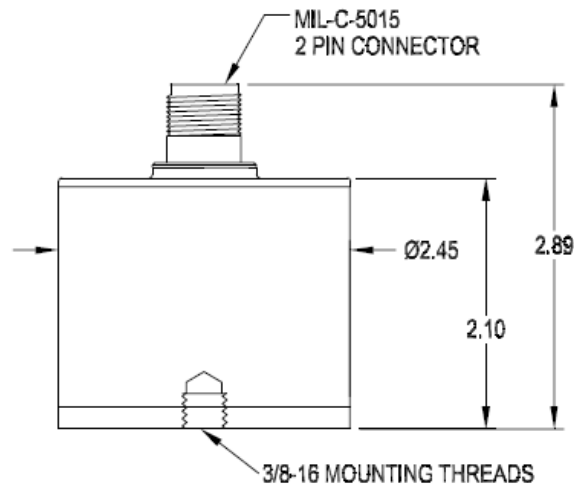
Ultra-quiet, ultra low frequency seismic accelerometer 731A



Key features

- Ultra high sensitivity
- Ultra low-noise electronics for clear signals at sub micro-g levels
- Low frequency capable
- Low pass filtered to eliminate high frequencies
- Reverse wiring protection

Certifications



Connections	
Function	Connector pin
ground	shell
power/signal	A
common	B

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-quiet, ultra low frequency seismic accelerometer

731A

SPECIFICATIONS

Sensitivity, $\pm 10\%$, 25° C	10 V/g
Acceleration range	0.5 g peak
Amplitude nonlinearity	1%
Frequency response:	
$\pm 10\%$	0.10 - 300 Hz
± 3 dB	0.05 - 450 Hz
Resonance frequency	750 Hz
Transverse sensitivity, max	1% of axial
Temperature response:	
-10° C	-12%
+65° C	+5%
Power requirement:	
Voltage source	18 - 30 VDC
Current regulating diode	2 - 10 mA
Electrical noise, equiv. g:	
Broadband	2.5 Hz to 25 kHz
Spectral	2 Hz
	10 Hz
	100 Hz
	0.5 μ g
	0.03 μ g/ $\sqrt{\text{Hz}}$
	0.01 μ g/ $\sqrt{\text{Hz}}$
	0.004 μ g/ $\sqrt{\text{Hz}}$
Output impedance, max	100 Ω
Bias output voltage	9 VDC
Grounding	case isolated
Temperature range	-10 to 65° C
Vibration limit	10 g peak
Shock limit	fragile
Electromagnetic sensitivity at 60 Hz	20 μ g/gauss
Sealing	hermetic
Base strain sensitivity	0.0001 g/ μ strain
Sensing element design	PZT ceramic / flexure
Weight	775 grams
Case material	316L stainless steel
Mounting	3/8 - 16 tapped hole
Output connector	2-pin, MIL-C-5015 style
Mating connector	R6 type
Recommended cabling	J9 / J9T2A

Contact

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Accessories supplied:

- Calibration data (level 3)
- SF7 mounting stud

Options: Power unit/
amplifier P31

Note: Special handling required due to sensitivity; wooden protective case included.

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