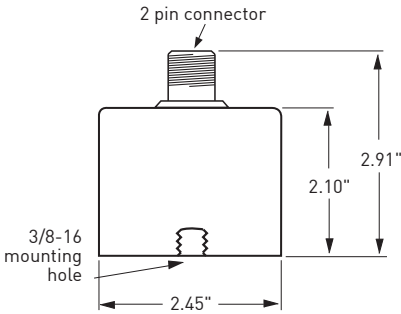


# Model 731A Ultra-quiet, ultra low frequency, seismic accelerometer



**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



**Dynamic**

Sensitivity, ±10%, 25°C.....	10 V/g
Acceleration range .....	0.5 g peak
Amplitude nonlinearity.....	1%
Frequency response:	
±10%.....	0.10 - 300 Hz
±3 dB .....	0.05 - 500 Hz
Resonance frequency.....	815 Hz
Transverse sensitivity, max.....	1% of axial
Temperature response:	
-10°C.....	-12%
+65°C.....	+5%

**Electrical**

Power requirement:	voltage source .....	18 - 30 VDC
	current regulating diode .....	2 - 10 mA
Electrical noise, equiv. g:		
Broadband	2.5 Hz to 25 kHz.....	0.5 µg
Spectral	2 Hz .....	0.03 µg/√Hz
	10 Hz .....	0.01 µg/√Hz
	100 Hz .....	0.004 µg/√Hz
Output impedance, max. ....		100Ω
Bias output voltage.....		9 VDC
Grounding.....		case isolated

**Environmental**

Temperature range .....	-10 to 65°C
Vibration limit.....	10 g peak
Shock limit .....	fragile
Electromagnetic sensitivity @ 60 Hz.....	20 µg/gauss
Sealing .....	Hermetic
Base strain sensitivity .....	0.0001 g/µstrain

**Physical**

Sensing element design .....	PZT ceramic / flexure
Weight .....	670 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

Connector pin	Function
Shell	ground
A	power/ signal
B	common

Note: Special handling required due to sensitivity  
 Accessories supplied: SF7 mounting stud; calibration data (level 3)  
 Options: Power unit/amplifier P31

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