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

**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 - 450 Hz
- Resonance frequency: 750 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: 1000Ω
- 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: 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

**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

**Note:** Special handling required due to sensitivity, wooden protective case included

Accessories supplied: SF7 mounting stud; calibration data (level 3)
Options: Power unit/amplifier P31

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Due to continued research and product development, Wilcoxon Research reserves the right to amend this specification without notice.