

Wilcoxon Research 731 series - seismic accelerometers

Ultra-high sensitivity

Ultra-low frequency monitoring

Ultra-low noise electronics for a clear signal at sub micro-g levels

Combine a supersensitive piezoelectric accelerometer, an ultra low-noise amplifier, and excellent electrical/mechanical isolation, and the result will be unmatched performance in measuring low-level vibration.

Seismic monitoring

- ▶ Earthquakes
- ▶ Tremors
- ▶ Geophysics

Structural monitoring

- ▶ Buildings
- ▶ Bridges
- ▶ Railways
- ▶ Dams
- ▶ Historic property

Construction monitoring

- ▶ Urban sites
- ▶ Demolition blasts
- ▶ Piling operations

Machine tool monitoring

- ▶ Chip manufacturing
- ▶ Ground measurements

Surveillance

- ▶ Building security
- ▶ Foot step detection

Other applications

- ▶ Tunnel monitoring
- ▶ Mine safety
- ▶ Neutral wind detection
- ▶ Blast detection
- ▶ Isolation tables
- ▶ Wave motion

731A

Sensitivity: 10V/g

Frequency response

±10%:.....0.10 – 300 Hz

± 3 dB:.....0.05 – 500 Hz

Noise floor

Broadband: 2.5 Hz to 25 kHz:.....0.5 µg

Spectral: 2 Hz:.....0.03 µg/√Hz

0 Hz:.....0.01 µg/√Hz

100 Hz:.....0.004 µg/√Hz

Connector: 2-pin, MIL-C-5015 style



731-207

Sensitivity: 10V/g

Frequency response

± 10%:.....0.5 – 850 Hz

± 3 dB:.....0.2 – 1,300 Hz

Noise floor

Broadband: 2.5 Hz to 25 kHz:.....2 µg

Spectral: 2 Hz:.....0.28 µg/√Hz

10 Hz:.....0.09 µg/√Hz

100 Hz:.....0.03 µg/√Hz

Connector: 10-32 coaxial

