



GEOPULSE

RUGGED SHORT-PERIOD SEISMOMETER

KEY FEATURES

- THREE-COMPONENTS GEOPHONE
- RUGGED DESIGN
- EASY CLIP CONNECTORS
- LOW POWER CONSUMPTION
- SENSITIVITY 28.8 V/M/S
- DIFFERENTIAL OUTPUT
- ALUMINUM SPIKES
- LOW SELF-NOISE
- EXCELENT THERMAL STABILITY

For affordable geophysical and seismic measurements.

The GeoPulse 1s is an affordable short-band seismometer designed for both active and passive seismology, offering outstanding value for its performance.

Utilizing 4.5Hz geophones, the GeoPulse enhances frequency response through an inverse-filter function. Its low noise components and compensation circuitry guarantee high dynamic range and stability.

Engineered for tough conditions, its rugged design and IP68 rating make it perfect for field use. The metallic spike simplifies ground installation.

GeoPulse is also available in uniaxial (vertical) configuration.





SPECIFICATIONS

Connector: Split Spring Connector
Warranty: 1 year
Cable Length: 1 meter
Coil Resistance: 375 ohms
Casing: Land Case
Sensitivity: 28.8 V/m/s
Damping: 0.60
Moving Mass: 11.3 g
Natural Frequency: 4.5 Hz
Maximum Motion: 4 mm
Distortion: $\leq 0.2\%$
Operating Temperature: -40 to +100°C
Dimensions: 25.4 mm × 36 mm



APPLICATIONS

- Seismic & Geophysical Surveys – Used in MASW, HVSR, refraction, and reflection seismology for subsurface mapping.
- Structural & Earthquake Monitoring – Tracks ground vibrations, SHM, and pile integrity.
- Environmental & Industrial Use – Monitors blasting, construction, railway, and traffic-induced vibrations.
- Microseismic & Research – Applied in induced seismicity, soil dynamics, and earthquake studies.

Ideal for stable ground coupling and accurate low-frequency vibration detection.

CONTACT US

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