



HGS (INDIA) LIMITED



HG-5UHS Geophone Element



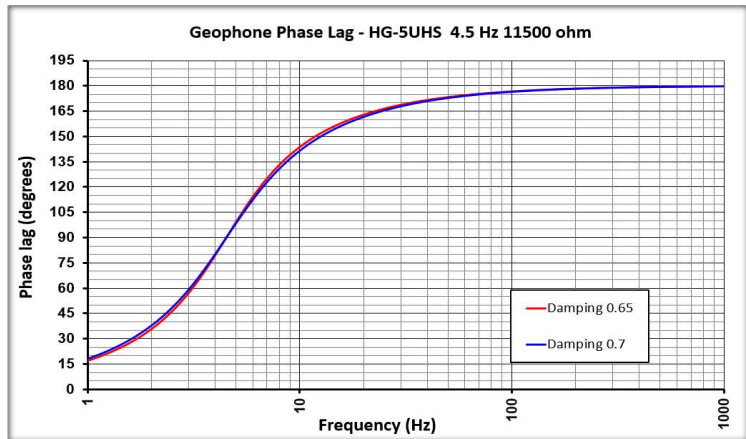
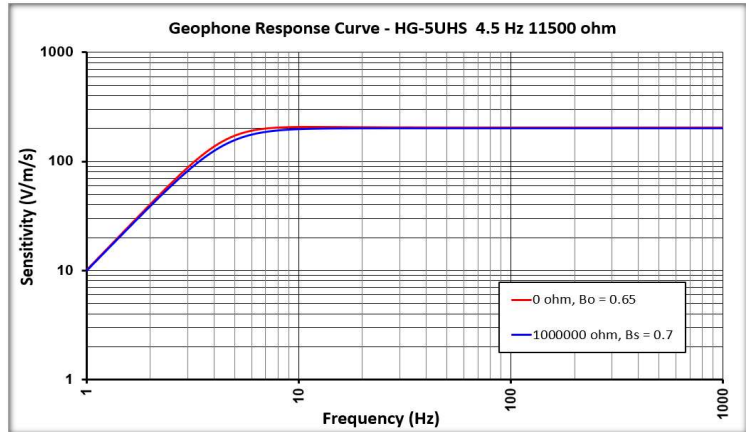
Based on the technology transfer for manufacturing the SM[®] range of geophones from Sensor[®] Nederland BV, HGS (India) Limited (erstwhile Geosource India Limited) offers the HG-5UHS (Ultra High Sensitivity) geophone with low natural frequency of 4.5Hz compared to conventional geophone. Ideal as a low frequency single point receiver.

Applications: 2D and 3D seismic exploration

- Features:
- Low distortion geophone with sensitivity typically 204 V/m/s
 - Ultra High Sensitivity geophone used in earthquake monitoring systems and land nodal systems
 - Rugged design with rotating-coil contacts
 - Small form factor compared to other Ultra High Sensitivity geophones

Specifications - HG-5UHS 4.5Hz 11500 Ohm

Natural frequency Tolerance Maximum tilt angle for specified fn Distortion Maximum tilt angle for distortion specification Damping Tolerance Requires $\geq 1M$ ohm system input impedance Sensitivity Tolerance Moving mass Max coil excursion p.p. Coil Resistance Tolerance Physical Characteristics Diameter Height Weight Operating temperature range Warranty Period*	Value 4.5 Hz ± 0.5 Hz Vertical 10° Horizontal 0° $\leq 0.15\%$ Vertical 10° Horizontal 0° 0.65 $\pm 5\%$ Requires $\geq 1M$ ohm system input impedance 204 V/m/s $\pm 5\%$ 13.5 g 3 mm 11500 Ω $\pm 5\%$ Physical Characteristics Diameter 26.7 mm Height 39.3 mm Weight 105 g Operating temperature range -40°C to 100°C Warranty Period* 1 year
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*Warranty excludes damage caused by high voltage and physical damage to the element case.

All parameters are specified at $+20^\circ\text{C}$.

Version 1.0

Ordering Information

Description	Part No.	Work direction
HG-5UHS U 4.5Hz 11500 Ohm	SG000607	Upright
HG-5UHS H 4.5Hz 11500 Ohm	SG000618	Horizontal

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