



HGS (INDIA) LIMITED



HG-5HS 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-5HS (High Sensitivity) geophone with low natural frequency compared to conventional geophone. The HG-5HS geophone offers the best in class frequency bandwidth up to 160 Hz. Ideal as a low frequency single point receiver.

Applications: 2D and 3D seismic exploration with bandwidth from 4.5 Hz to 160 Hz.

Features:

- High Sensitivity geophone used in earthquake monitoring systems and land nodal systems
- Rugged design with rotating-coil contacts

Specifications - HG-5HS 4.5 Hz 3000 Ohm

Frequency	Value
Natural frequency	4.5 Hz
Tolerance	± 0.5Hz
Maximum tilt angle for specified Fn	Vertical 5° Horizontal 0°
Spurious frequency	>160Hz Typical

Distortion	
Distortion with 17.78 mm/s p.p. coil-to-case velocity	≤0.3%
Distortion measurement frequency	12 Hz
Maximum tilt angle for distortion specification	Vertical 5° Horizontal 0°

Damping	
Open circuit (typical)	0.3
Tolerance	±7.5%

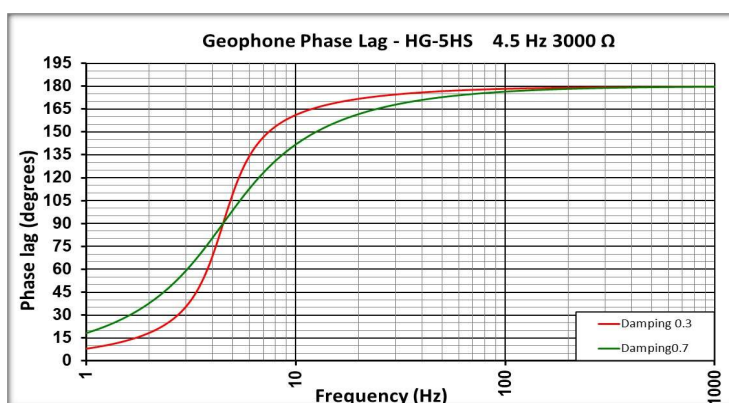
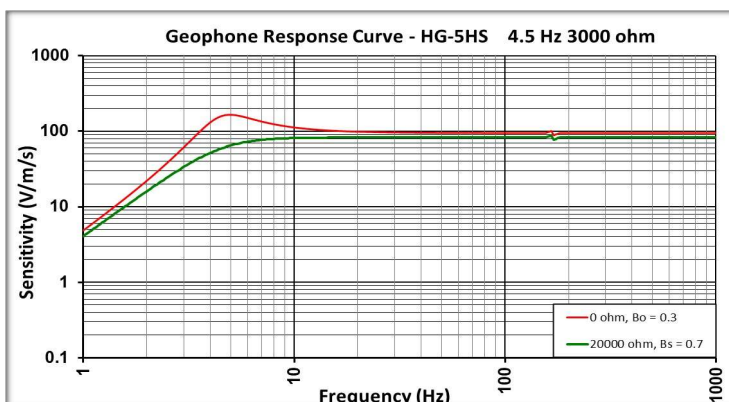
Sensitivity	
Sensitivity (open Circuit)	95 V/m/s
Tolerance	± 5%
Moving mass	17.4 g
Maximum coil excursion p.p .	3 mm

Coil Resistance	
Standard	3000 Ω
Tolerance	± 5%

Physical Characteristics	
Diameter	26.7 mm
Height	39.3 mm
Weight	106 g
Operating temperature range	-40°C to 100°C

Warranty Period* 2 Years
 *Warranty excludes damage caused by high voltage and physical damage to the element case.

All parameters are specified at +20°C.



Ordering information

Description	Part No.	Work direction
HG-5HS U 4.5 Hz 3000 Ohm	SG000621	Upright
HG-5HS H 4.5 Hz 3000 Ohm	SG000622	Horizontal

Version 1.1

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