



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 geophone with low natural frequency and high sensitivity compared to conventional geophone.

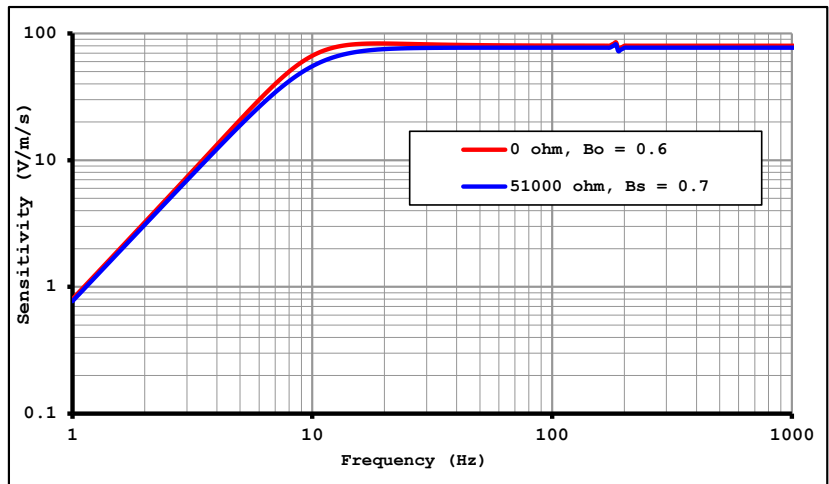
Applications: 2D and 3D seismic exploration with bandwidth from 5 Hz to 180 Hz.

Features:

- Low distortion geophone
- High Sensitivity versions used in earthquake monitoring systems
- Rugged design with rotating-coil contacts

Specifications - HG-5HS

Frequency	Value
Natural frequency	5 Hz
Tolerance	± 7.5%
Maximum tilt angle for specified Fn	10°
Spurious frequency	>180Hz
Distortion	
Distortion with 17.78 mm/s p.p. coil-to-case velocity	≤0.1%
Distortion measurement frequency	12 Hz
Max. tilt angle for distortion specification	10°
Damping	
Open circuit (typical)	0.6
Damping calibration-shunt resistance	51000 Ω
Damping with calibration shunt	0.7
Tolerance with calibration shunt	± 7.5%
Sensitivity	
Sensitivity	80 V/m/s
Tolerance	± 5%
Moving mass	12.9 g
Max coil excursion p.p .	3 mm
Coil Resistance	
Standard	1850 Ω
Tolerance	± 5%
Physical Characteristics	
Diameter	26.7 mm
Height	37.5 mm
Weight	105 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 in the working position unless stated otherwise.

Ordering information

Description	Part No.	Working position
HG-5HS U 5 Hz 1850 Ohm	SG000430	Upright
HG-5HS H 5 Hz 1850 Ohm	SG000431	Horizontal

Version 1.1

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