



## HGS (INDIA) LIMITED



### HG-5 Geophone Element



Based on the technology transfer for manufacturing the SM<sup>®</sup> range of geophones from Sensor<sup>®</sup> Nederland BV, HGS (India) Limited (erstwhile Geosource India Limited) offers the HG-5 geophone with low natural frequency compared to conventional geophone. The HG-5 geophone offers the best in class frequency bandwidth up to 150 Hz at a distortion  $\leq 0.1\%$ . Ideal as a low frequency single point receiver. .

Applications: 2D and 3D seismic exploration with bandwidth from 5 Hz to 150 Hz.

- Features:
- Low distortion geophone
  - Rugged design with rotating-coil contacts
  - Ideal for 12 geophones in series

## Specifications - HG-5 U 5 Hz 475 Ohm

<b>Frequency</b>	Value
Natural frequency	5 Hz
Tolerance	± 7.5%
Maximum tilt angle for specified Fn	Vertical 10°

Spurious frequency >150Hz

**Distortion**

Distortion with 17.78 mm/s p.p. coil-to-case velocity	≤0.1%
Distortion measurement frequency	12 Hz
Maximum tilt angle for distortion specification	Vertical 10°

**Damping**

Open circuit (typical)	0.25
Tolerance	± 7.5%

**Sensitivity**

Sensitivity (open Circuit)	28.8 V/m/s
Tolerance	± 5%
Moving mass	13.7 g
Maximum coil excursion p.p .	3 mm

**Coil Resistance**

Standard	475 Ω
Tolerance	± 5%

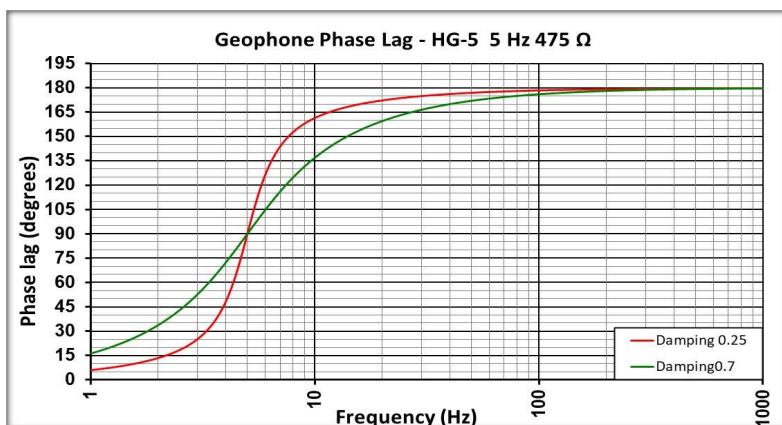
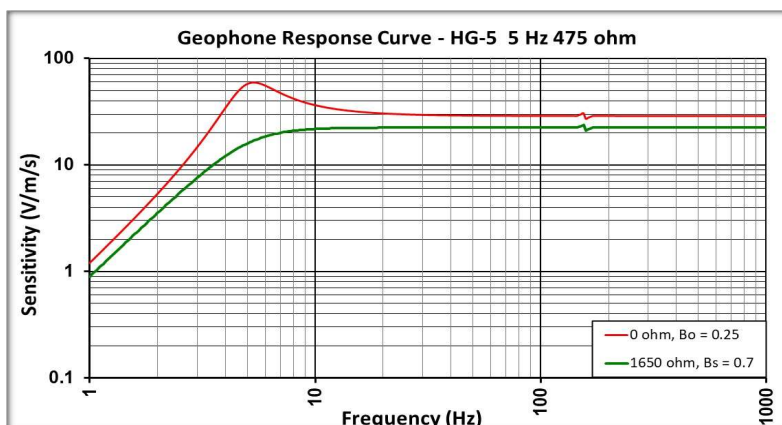
**Physical Characteristics**

Diameter	26.7 mm
Height	39.3 mm
Weight	103 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-5 U 5 Hz 475 Ohm	SG000608	Upright

Version 1.0

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