



## HGS (INDIA) LIMITED



### HG-25 Miniature Omni-Directional Geophone



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-25 miniature omni-directional geophone. The miniature omni-directional geophone has been specially designed for non-gimbed 3C applications, in particular Ocean Bottom Node and Down-hole 4D/4C applications where space and weight is the limiting factor.

Applications: Ocean Bottom Nodes, VSP and other down-hole applications

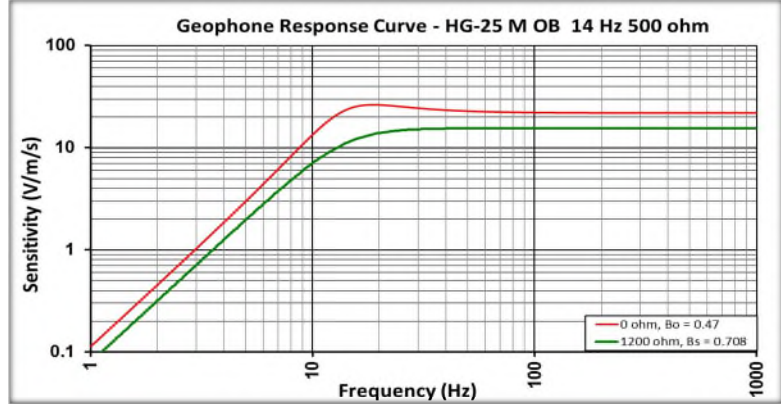
#### **Features:**

- Miniature design, much smaller than a standard geophone
- Omni-directional geophone design gives accurate vector response
- Design adapted from popular omni-directional geophone used extensively in industrial applications

## Specifications - HG-25 M OB 14 Hz 500 ohm

<b>Frequency</b>	Value
Natural frequency	14 Hz
Tolerance	± 7%
Maximum tilt angle for specified Fn	360°

<b>Distortion</b>	
Distortion with 17.78 mm/s p.p. coil-to-coil case velocity	< 0.7%
Distortion measurement frequency	14 Hz



<b>Damping</b>	
Open circuit	0.512
Tolerance (O.C)	+10 / -5%
Shunt for 0.7 damping	1500 Ω

<b>Coil Resistance</b>	
Standard	500 Ω
Tolerance	± 5%

<b>Sensitivity</b>	
Sensitivity (O.C)	22 V/m/s
Tolerance (Optimum Orientation)	+ 5 / -10%
Moving mass	7.0 g
Maximum coil excursion p.p .	0.5 mm

<b>Physical Characteristics</b>	
Diameter	22.2 +0/-0.1 mm
Height	27.9 ± 0.2 mm
Weight	48 g
Operating temperature range	- 40°C to + 100°C

Warranty Period\* 1 year

\*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.	Direction
HG-25 M OB 14 Hz 500 ohm	SG000561	Omni

Version 1.0

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