



HGS (INDIA) LIMITED



HG-6 LF OB Omni Directional Geophone



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-6 geophone fully omni-directional at 10Hz natural frequency for low frequency applications where the geophone orientation cannot be controlled. The low frequency response is attained by the addition of a resistor - capacitor (RC) network.

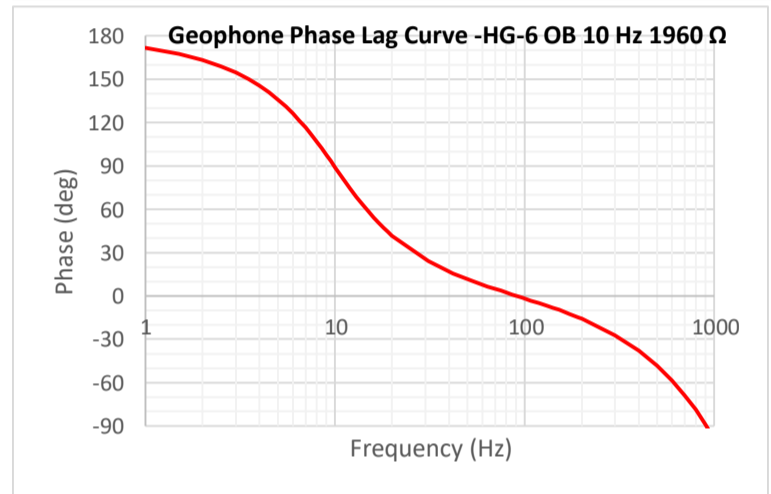
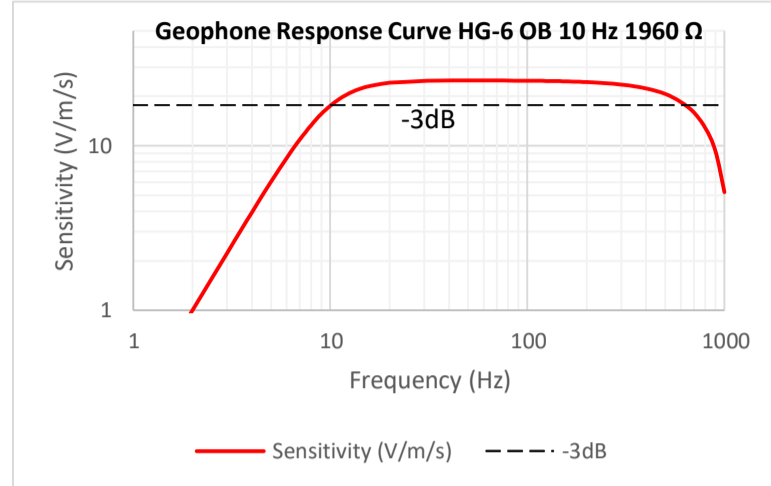
Applications: Low frequency, Ocean Bottom Node (OBN) and VSP applications.

Features:

- Low frequency Omni Directional
- Distortion $\leq 0.9\%$
- Rugged design with rotating-coil contacts

Specifications - HG-6 LF OB 10Hz 1960 Ohm

	Implicit parameters Value	Explicit parameters Value
Natural frequency	10 Hz	14 Hz
Tolerance	± 20%	± 7%
Maximum tilt angle for	360°	360°
Distortion	≤0.9%	≤0.4%
Damping	0.7	0.185
Tolerance	± 20%	+10%,-5%
Sensitivity	24.5 V/m/s	80 V/m/s
Tolerance	± 20%	+5%,-10%
Moving mass	8.7 g	10.2 g
Max coil excursion p.p .	2 mm	2 mm
Coil Resistance	1960 Ω	3500 Ω
Tolerance	± 10%	± 5%
Physical Characteristics		
Diameter	25.4 mm	25.4 mm
Height	40.5 mm	36 mm
Weight	81 g	
Operating temperature range	-40°C to 70°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 in the working position unless stated otherwise.

Ordering information

Description	Part No.	Working position
HG-6 LF OB 10 Hz 1960 Ohm	SG000556	Omni tilt

Version 1.0

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