



## HG-6 LF 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-6 LF geophone with 2 Hz natural frequency for picking up low frequency and deep level signals. The low frequency response is attained by the addition of a resistor - capacitor (RC) network.

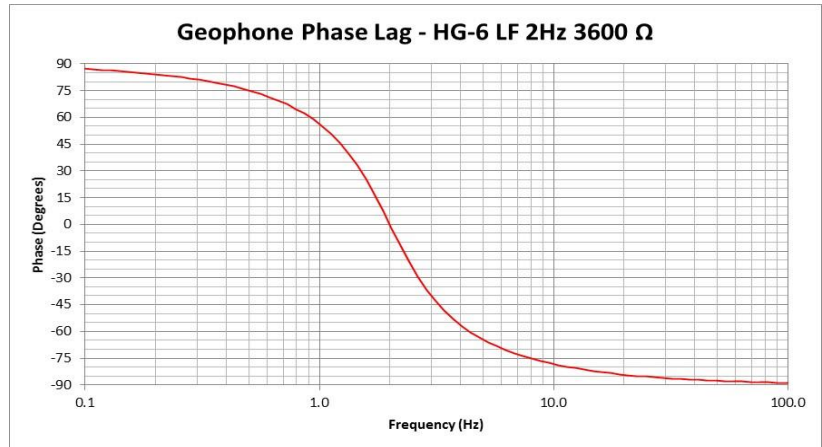
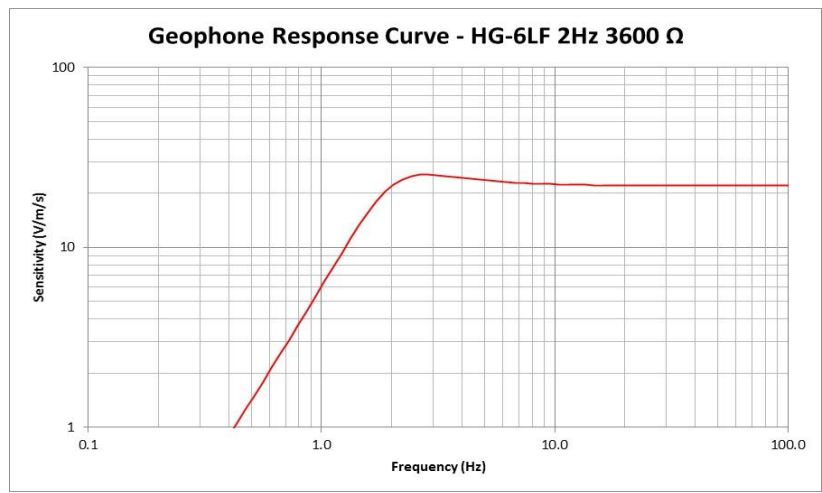
Applications: Low frequency & deep level seismic exploration

### Features:

- Very low frequency
- Distortion  $\leq 0.9\%$
- Rugged design with rotating-coil contacts

## Specifications - HG-6 LF

	<b>Implicit parameters</b>	<b>Explicit parameters</b>
	<b>Value</b>	<b>Value</b>
Natural frequency	2 Hz	4.5 Hz
Tolerance	± 20%	± 0.5 Hz
Distortion	≤0.9%	≤0.1%
Damping	0.5	0.58
Tolerance	± 20%	± 5%
Sensitivity	22 V/m/s	100 V/m/s
Tolerance	± 20%	± 5%
Moving mass	2.7 g	12.2 g
Max coil excursion p.p .	4 mm	4 mm
Coil Resistance	3600 Ω	3800 Ω
Tolerance	± 10%	± 5%
<b>Physical Characteristics</b>		
Diameter	25.4 mm	
Height	40.5 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 U 2 Hz 3600 Ohm	SG000512	Upright
HG-6 LF H 2 Hz 3600 Ohm	SG000513	Horizontal

Version 1.1

**India**  
HGS (India) Ltd  
Tel : +91-11-46066604  
Fax : +91-11-24333772  
Website : www.hgsindia.com

**The Netherlands**  
HGS Products B.V.  
Tel : +31 708200820  
Website : www.hgsproducts.nl