



## HGS (INDIA) LIMITED



### 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		
<b>Warranty Period*</b>	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  
Website : [www.hgsindia.com](http://www.hgsindia.com)

**The Netherlands**  
HGS Products B.V.  
Tel : +31 708200820  
Website : [www.hgsproducts.nl](http://www.hgsproducts.nl)