



## HGS (INDIA) LIMITED



### HG-5 LF HS 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 LF geophone with 3 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: Vibration monitoring & Seismology

- Features:
- Low frequency geophone with the smallest form factor in the industry
  - Very low frequency
  - Very high Sensitivity
  - Distortion  $\leq 0.9\%$
  - Rugged design with rotating-coil contacts

### Specifications - HG-5 LF HS U 3 Hz 10800 Ohm

	<b>Implicit parameters</b>	<b>Explicit parameters</b>	
	<b>Value</b>	<b>Value</b>	
Natural frequency	3 Hz	4.5 Hz	
Tolerance	± 20%	± 0.5 Hz	
Distortion	≤0.9%	≤0.1%	
Damping	0.7	0.65	
Tolerance	± 20%	± 5%	
Sensitivity	89 V/m/s	204 V/m/s	
Tolerance	± 20%	± 5%	
Moving mass	2.7 g	13.5 g	
Max coil excursion p.p .	3 mm	3 mm	
Coil Resistance	10800 Ω	11500 Ω	
Tolerance	± 10%	± 5%	
<b>Physical Characteristics</b>			
Diameter	26.7 mm	26.7 mm	
Height	44 mm	39.3 mm	
Weight	105 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-5 LF HS U 3 Hz 10800 Ohm	SG000538	Upright
HG-5 LF HS H 3 Hz 10800 Ohm	SG000540	Horizontal

Version 1.0

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