



## HGS (INDIA) LIMITED



### HG-11D Geophone Element



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-11D (High Sensitivity) geophone with 8 Hz natural frequency. The HG-11D geophone offers the frequency bandwidth up to 180 Hz at a distortion of  $\leq 0.15\%$ .

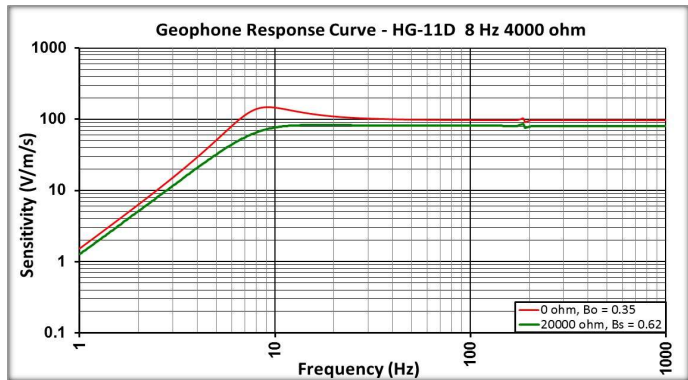
Applications: Vibration monitoring systems

#### Features:

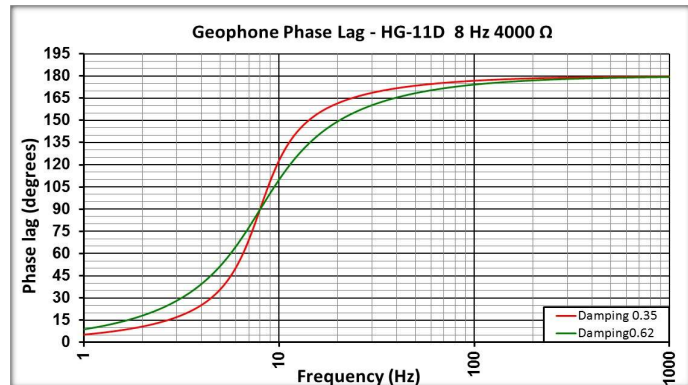
- Geophone with high sensitivity of 97 V/m/s
- Used in vibration monitoring systems
- Rugged design with rotating-coil contacts

## Specifications - HG-11D 8 Hz 4000 Ohm

<b>Frequency</b>	Value
Natural frequency	8 Hz
Tolerance	± 5%
Maximum tilt angle for specified Fn	10° for Vertical 0° for Horizontal
Spurious frequency	>180Hz
<b>Distortion</b>	
Distortion with 17.78 mm/s p.p. coil-to-case velocity	≤0.15%
Distortion measurement frequency	12 Hz
Max. tilt angle for distortion specification	10° for Vertical 0° for Horizontal



<b>Damping</b>	
Open circuit (typical)	0.35
Tolerance	± 5%
<b>Sensitivity</b>	
Sensitivity	97 V/m/s
Tolerance	± 1 V/m/s
Moving mass	14.5 g
Max coil excursion p.p.	3 mm



<b>Coil Resistance</b>	
Standard	4000 Ω
Tolerance	± 5%

<b>Physical Characteristics</b>	
Diameter	26.6 mm
Height	39.3 mm
Weight	105 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 +25°C.

Version 1.1

### Ordering Information

Description	Part No.	Work direction
HG-11D U 8 Hz 4000 Ohm	SG000464	Upright
HG-11D H 8 Hz 4000 Ohm	SG000465	Horizontal

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