



## HGS (INDIA) LIMITED



### HG-25 Miniature Omni-Directional High Temperature Geophone



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-25 miniature, omni-directional, 15 Hz, 2400 ohms, high temperature geophone.

Applications: Multi-component, high resolution seismic monitoring and recording.

#### **Features:**

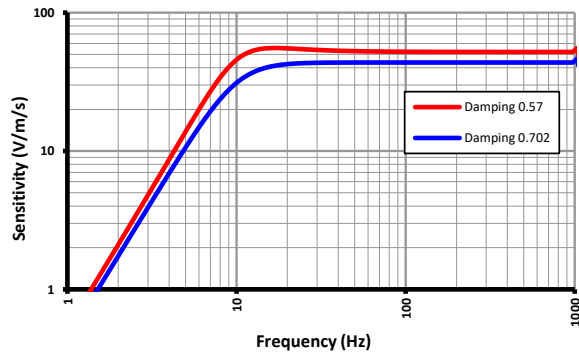
- Miniature design, much smaller than standard geophone
- 200 °C temperature rating
- High sensitivity (52 V/m/s)
- Omni-directional geophone design gives accurate vector response

## Specifications - HG-25 M OD, 15 Hz, 2400 ohms, HT

Optimum Orientation                      Horizontal  
 Operational Range                         0° to 180° (Omni)

Response curve

**Frequency**                                      Value  
 Natural frequency                             15 Hz  
 Tolerance (Optimum Orientation)        ± 5%  
 Tolerance (Operational Range)           - 5% to + 15%  
  
 Typical spurious frequency                175 Hz



**Distortion**  
 Distortion with 17.78 mm/s p.p. coil-to-case velocity  
 Optimum Orientation                        < 0.2%  
 Operational Range                            < 0.7%  
 Distortion measurement frequency       15 Hz

**Damping**  
 Open circuit                                    0.57  
 Tolerance (Optimum Orientation)        ± 15%  
 Tolerance (Operational Range)           - 20% to + 10%

**Sensitivity**  
 Sensitivity                                      52 V/m/s  
 Tolerance (Optimum Orientation)        ± 5%  
 Tolerance (Operational Range)           - 15% to + 5%  
 Moving mass                                    7.3 g  
 Max coil excursion p.p .                    3 mm

**Coil Resistance**  
 Standard                                        2400 Ω  
 Tolerance                                        ± 5%

**Physical Characteristics**  
 Diameter                                        22.2 mm + 0.0 mm / - 0.1 mm  
 Height    27.9 mm ± 0.2 mm  
 Weight    48 g  
 Operating temperature range              - 40°C to + 200°C

Warranty Period\*                                30 days

\*Warranty excludes damage caused by high voltage and physical damage to the element case.

All parameters are specified at +20°C.

### Ordering information

Description	Part No.	Working position
HG-25 M OD, 15 Hz, 2400 ohms	SG000420	Omni

Version 1.1

**India**  
 HGS (India) Ltd  
 Tel : +91-11-46066604

**The Netherlands**  
 HGS Products B.V.  
 Tel : +31 708200820

Fax : +91-11-24333772  
Website : [www.hgsindia.com](http://www.hgsindia.com)

Fax : +31 708200828  
Website : [www.hgsproducts.nl](http://www.hgsproducts.nl)