



HGS (INDIA) LIMITED



HG-25 Miniature Omni-Directional High Temperature Geophone



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

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

Features:

- Miniature design, much smaller than a standard geophone
- 200 °C temperature rating. Very high temperature version also available for temperature rating upto 240 °C .
- High sensitivity (52 V/m/s)
- Omni-directional geophone design gives accurate vector response

Specifications - HG-25 M OD, 15 Hz, 2400 ohm, HT/VHT

Optimum Orientation Horizontal
 Operational Range 360° (Omni)

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

Typical spurious frequency ≥160 Hz

Distortion
 Optimum Orientation < 0.2%
 Operational Range < 0.7%
 Distortion measurement frequency 15 Hz
 P.P. coil to case velocity for distortion 17.78 mm/s

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

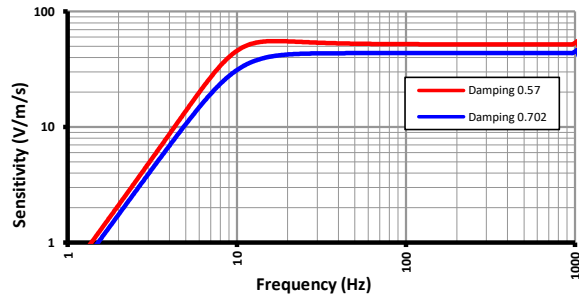
Sensitivity
 Sensitivity 52 V/m/s
 Tolerance (Optimum Orientation) ± 5%
 Tolerance (Operational Range) - 15% to + 5%
 Moving mass 7.3 g
 Maximum coil excursion p.p . 3 mm

Coil Resistance
 Standard 2400 Ω
 Tolerance ± 5%

Physical Characteristics
 Diameter 22.2 + 0 / - 0.1 mm
 Height 27.9 ± 0.2 mm
 Weight 48 g
 Operating temperature range - 40°C to + 200°C (for HT model)
 - 40°C to + 240°C (for VHT model)
 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.

Response curve



Version 1.1

Ordering information

Description	Part No.	Work direction
HG-25 M OD, 15 Hz, 2400 ohm HT	SG000420	Omni
HG-25 M OD, 15 Hz, 2400 ohm VHT	SG000539	Omni

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