



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 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

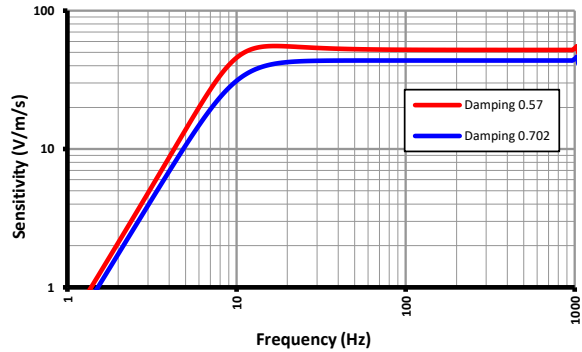
Specifications - HG-25 M OD, 15 Hz, 2400 ohms, HT

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

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