



Characteristics of IMS 4.5 Hz geophones

Sensor

Low frequency -3dB point ¹	3.8 Hz
Natural frequency ²	4.5 Hz ± 0.5 Hz
Distortion with 18 mm/s p.p. coil to case velocity ²	< 0.3%
Distortion measurement frequency	12 Hz
Open circuit damping	0.56 ± 5%
Standard coil resistance	375Ω ± 5%
Open circuit sensitivity	28.8 V/m/s ± 5%
Damped (0.7) sensitivity	27.5 V/m/s ± 5%
Moving Mass	11.1 g
Maximum coil excursion (peak to peak).....	4 mm

Physical (for sonde)

Diameter ³	51 mm
Length	300 mm
Mass	1.3 kg

Installation

Working position	vertical or horizontal
Vertical tolerance	± 1°
Horizontal tolerance	± 1°
Recommended hole diameter	76 mm
Pressure tested water depth ⁴	400 m

NOTES

- ¹ Undamped
- ² Specified at tilt angle of 0°
- ³ Without springs
- ⁴ High pressure rated sensors (up to 2000 m depth) available on request

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