

DUAL COIL MINIATURE GEOPHONE**NATURAL FREQUENCIES FROM 2.0 TO 28 HZ**

HS-1 IN ALUMINUM CASE



HS-1 IN STEEL CASE

PRODUCT DESCRIPTION

The HS-1 is an integral component in the vibration monitoring and analysis of machinery. This rugged, self-generating seismic sensor converts mechanical motion into an electrical signal, which is proportional to relative velocity. The HS-1's dual-coil construction minimizes interference from electromagnetic fields.

FEATURE HIGHLIGHTS

- Natural frequencies from 2.0 to 28 Hz
- Sensitivities from 460 to 2000 mV per ips
- Sensitive to motion along their longitudinal axes

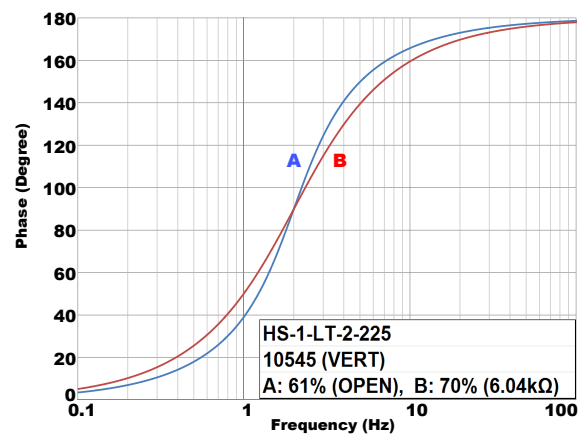
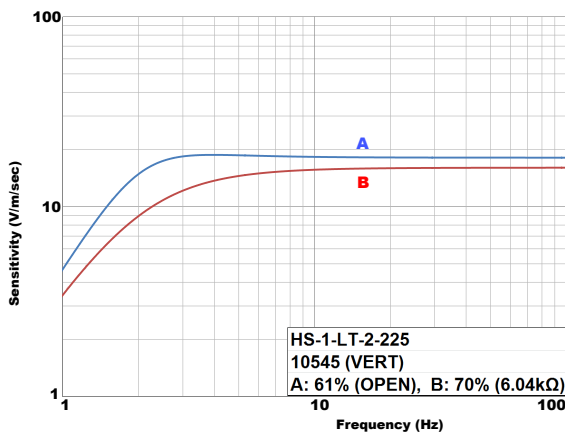
MECHANICAL SPECIFICATIONS

	METRIC	US
Orientation	Vertical and Horizontal available	
Moving Mass	23 g	0.811 oz
Maximum Coil Excursion p-p	> 3.81 mm	0.15 in.
Diameter	4.12 cm	1.62 in.
Height (less stud)	5.08 cm	2.00 in.
Stud Length	0.79 cm	0.31 in.
Weight	247 g	8.70 oz
Operating & Storage Temperature Range	-45 to +100°C	-49 to +212°F

ELECTRICAL SPECIFICATIONS @25°C

Frequency	2 Hz *	
Spurious Frequency	N.S.	
Distortion	N.S.	
Coil Resistance	225 Ω *	
Open-Circuit Sensitivity	18.11 V/m/s	0.46 V/in/s
Sensitivity at 70% Damping	17.44 V/m/s	0.443 V/in/s
Open-Circuit Damping	61%	
Tilt Angle when coil hits end stop	Vertical geophone = 14° Horizontal geophone = 1.7°	

* Other frequencies and resistances available.



SOLUTIONS FOR A SMARTER FUTURE

Specifications subject to change at sole discretion of Geospace Technologies.