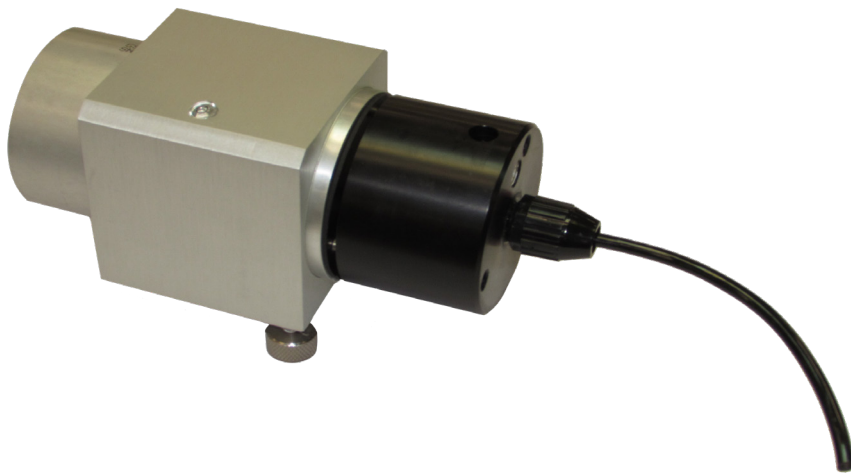


LOW FREQUENCY SEISMOMETER**HIGH SENSITIVITY DETECTOR****PRODUCT DESCRIPTION**

The GS-1 is a high-sensitivity, self-generating velocity detector with extremely low natural frequencies. This seismic sensor is an excellent choice for detecting seismic activity for structural analysis, geologic hazards, and vibration monitoring.

FEATURE HIGHLIGHTS

- Low-frequency 1.0 Hz and 2.0 Hz models available
- Excellent for detecting motion for structural analysis, geologic hazards, vibration isolation
- Sensitivity range from 3 to 19 V per inch per second
- Vernier spring adjustment included
- Operating and Storage Temperature Range: -40°C to +60°C (-40°F to +140°F)



GS-1 SEISMOMETER

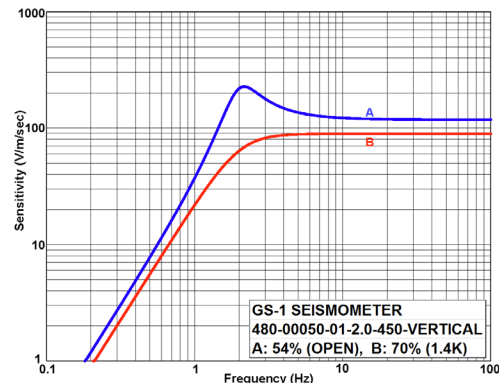
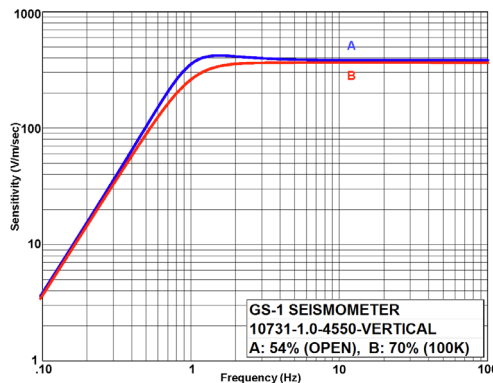
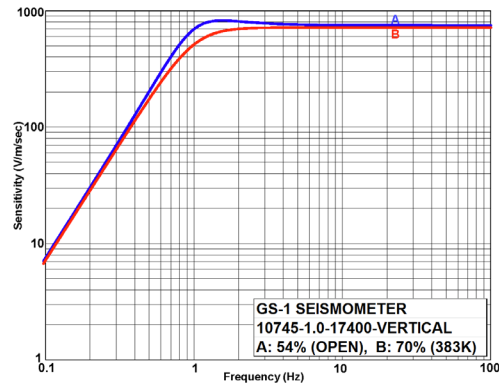
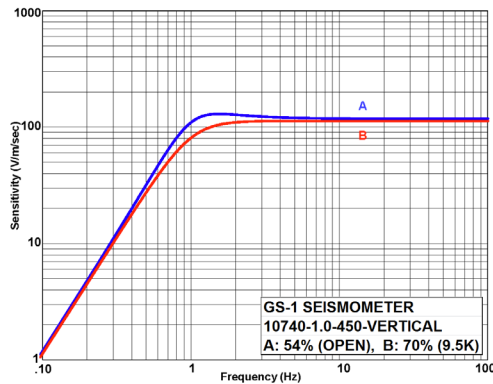


MECHANICAL SPECIFICATIONS

	METRIC	US
Coil Excursion pk-pk	> 6.35 mm	> 0.25 in.
Diameter	7.6 cm	3.0 in.
Height	16.4 cm	6.45 in.
Weight	1.96 kg	4.32 lbs.

ELECTRICAL SPECIFICATIONS @25°C

Model	1 Hz – 450 Ω		1 Hz – 4550 Ω		1 Hz – 17400 Ω		2 Hz– 450 Ω	
Orientation	VT	HZ	VT	HZ	VT	HZ	VT	HZ
Tilt Angle (typical)	7.5°	0.5°	7.5°	0.5°	7.5°	0.5°	15°	0.5°
Moving Mass	700g		700 g		700 g		690 g	
Frequency @ specified orientation	1.0 Hz ± 10%		1.0 Hz ± 10%		1.0 Hz ± 10%		2.0 Hz ± 10%	
Resistance	450 Ω ± 5%		4550 Ω ± 5%		17400 Ω ± 5%		450 Ω ± 5%	
Intrinsic Sensitivity	118 V/m/sec ± 10% 3.00 V/in/sec ± 10%		380 V/m/sec ± 10% 9.7 V/in/sec ± 10%		748 V/m/sec ± 10% 19.0 V/in/sec ± 10%		118 V/m/sec ± 10% 3.00 V/in/sec ± 10%	
Open Circuit Damping	0.54 ± 0.11		0.54 ± 0.11		0.54 ± 0.11		0.27 ± 0.06	
Damping Constant (BcRt)	1,586		16,579		63,611		793	



SOLUTIONS FOR A SMARTER FUTURE

Specifications subject to change at sole discretion of Geospace Technologies.