

GS-ONE GEOPHONE



Sensitivity 4.36 times greater than conventional geophones

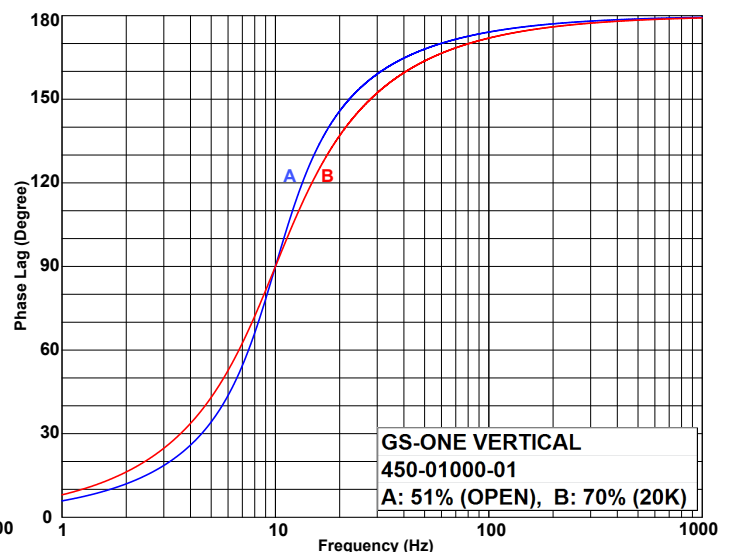
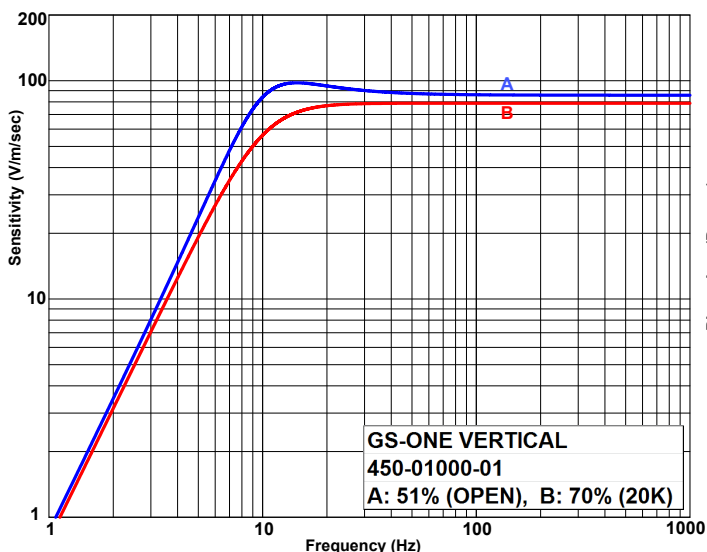
MECHANICAL SPECIFICATIONS

Moving Mass	14 g	0.49 oz
Maximum coil excursion p-p	4.06 mm	0.16 in.
Diameter	30.5 mm	1.2 in.
Height	40.7 mm	1.6 in.
Weight	130 g	4.60 oz
Operating and Storage Temperature Range	-40°C to +100°C	-40°F to +212°F

ELECTRICAL SPECIFICATIONS

All parameters are specified at 25°C in the vertical position unless otherwise stated.

Open-circuit sensitivity	2.18 V/in/s (85.8 V/m/s) +5%, -3.5%
Frequency	10 Hz $\pm 3.5\%$
Spurious frequency	> 240 Hz
Distortion from vertical to 10° tilt	<0.15% measured at 12 Hz with 0.7 in/s p-p
Distortion at vertical	0.05% Typical
Open-circuit damping	0.48 to 0.54
Coil resistance	1800 Ω $\pm 5\%$
Sensitivity with 20 kΩ load	2.00 V/in/s (78.7 V/m/s) Typical
Damping with 20 kΩ load	0.70 Typical
Tilt angle when coil hit end stop	70° Typical



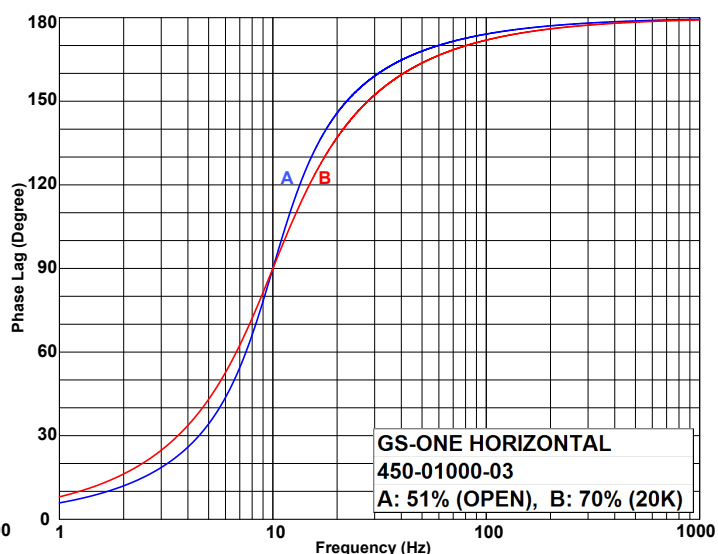
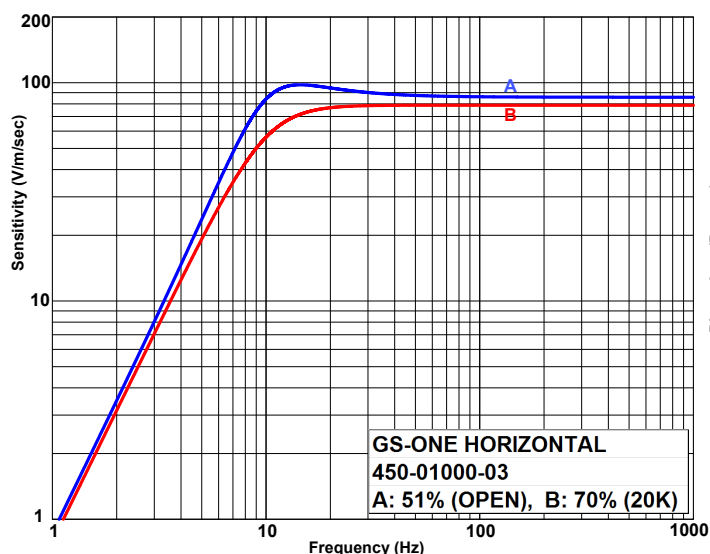
MECHANICAL SPECIFICATIONS

Moving Mass	14 g	0.49 oz
Maximum coil excursion p-p	4.06 mm	0.16 in.
Diameter	30.5 mm	1.2 in.
Height	40.7 mm	1.6 in.
Weight	130 g	4.60 oz
Operating and Storage Temperature Range	-40°C to +100°C	-40°F to +212°F

ELECTRICAL SPECIFICATIONS

All parameters are specified at 25°C in the horizontal position unless otherwise stated.

Open-circuit sensitivity	2.18 V/in/s (85.8 V/m/s) +5%, -3.5%
Frequency	10 Hz $\pm 3.5\%$
Spurious frequency	> 240 Hz
Distortion from horizontal to $\pm 3^\circ$ tilt	<0.15% measured at 12 Hz with 0.7 in/s p-p
Distortion at horizontal	0.05% Typical
Open-circuit damping	0.48 to 0.54
Coil resistance	1800 Ω $\pm 5\%$
Sensitivity with 20 kΩ load	2.00 V/in/s (78.7 V/m/s) Typical
Damping with 20 kΩ load	0.70 Typical
Tilt angle when coil hit end stop	40° Typical



GS-ONE 15 Hz OMNI

MECHANICAL SPECIFICATIONS

Moving Mass	13.2 g	0.466 oz
Maximum coil excursion p-p	4.06 mm	0.16 in.
Minimum coil excursion p-p	1.02 mm	0.04 in.
Diameter	30.5 mm	1.2 in.
Height	40.7 mm	1.6 in.
Weight	130 g	4.60 oz
Operating and Storage Temperature Range	-40°C to +100°C	-40°F to +212°F

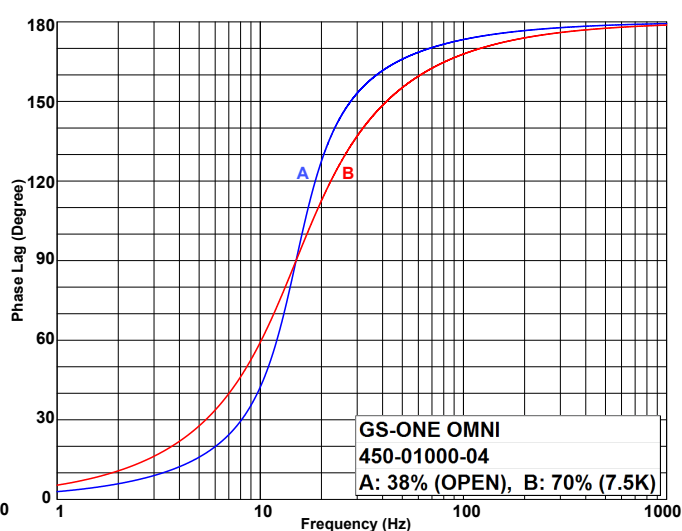
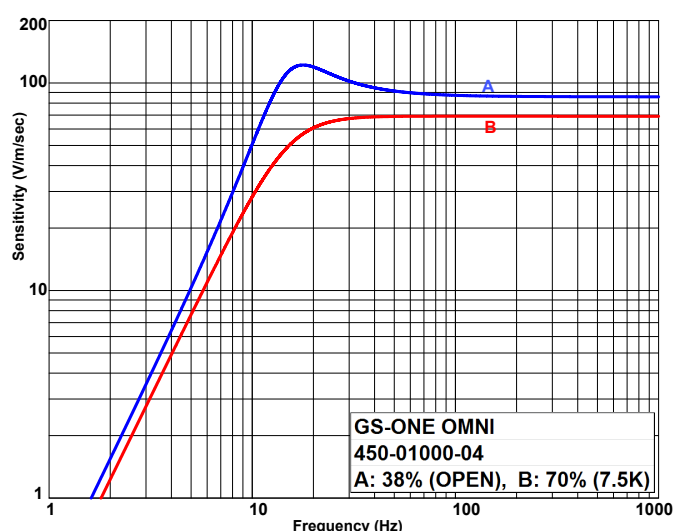
ELECTRICAL SPECIFICATIONS

All parameters are specified with 7.5 k Ω load at 25°C in all tilt positions unless otherwise stated.

Sensitivity	1.75 V/in/s (69.2 V/m/s) +5%, -10%
Frequency	15 Hz +10%, -5%
Spurious frequency	>160 Hz
Distortion at all tilt angles	<0.2% measured at 15 Hz with 0.2 in/s p-p
Distortion at horizontal	0.05% Typical
Damping	0.7 $\pm$ 10%
Resistance with 7.5 kΩ load	1450 Ω $\pm$ 5%

US Patent 8,098,546

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