

GS-ONE GEOPHONE



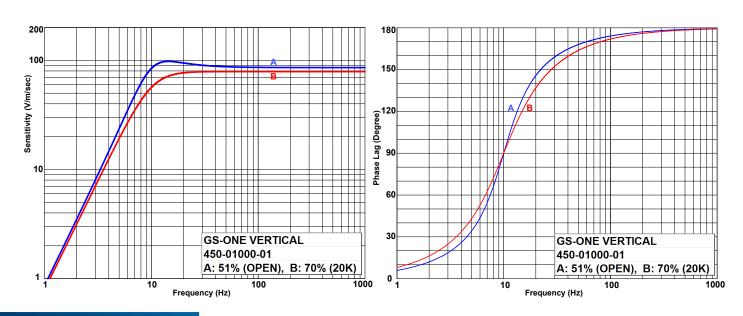
Sensitivity 4.36 times greater than conventional geophones

GS-ONE 10Hz

VERTICAL

| MECHANICAL SPECIFICATION | S | |
|---|-------------------------------------|-----------------|
| 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 vertica | l position unless otherwise stated. | |
| Open-circuit sensitivity | 2.18 V/in/s (85.8 V/m/s) +5%, -3.5% | |
| Frequency | 10 Hz ±3.5% | |

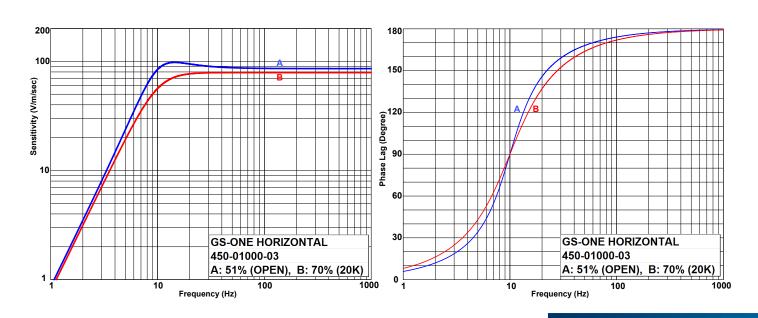
| All parameters are specified at 25°C in the vertical position unless otherwise stated. | | |
|--|--|--|
| Open-circuit sensitivity | 2.18 V/in/s (85.8 V/m/s) +5%, -3.5% | |
| Frequency | 10 Hz ±3.5% | |
| Spurious frequency | > 240 Hz | |
| Distortion from vertical to 10° tilt | <0.15% measured at 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 ±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 | |
| | | |



GS-ONE 10 Hz

HORIZONTAL

| MECHANICAL SPECIFICATION | S | |
|---|--|-----------------|
| 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 horizor | tal position unless otherwise stated | |
| Open-circuit sensitivity | 2.18 V/in/s (85.8 V/m/s) +5%, -3.5% | |
| Frequency | 10 Hz ±3.5% | |
| Spurious frequency | > 240 Hz | |
| Distortion from horizontal to ± 3° 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 ±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

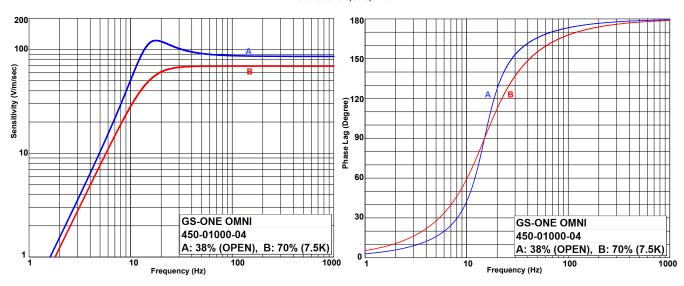
| MECHANICAL SPECIFICATIONS | | | |
|---|-----------------|-----------------|--|
| Moving Mass | 13.2 g | 0.466 oz | |
| Maximum coil excursion p-p | 4.06 mm | 0.16 in. | |
| Minimum coil excursion p-p | 1.02 mm | 0.04 in. | |
| Diameter | 30.5 mm | 1.2 in. | |
| Height | 40.7 mm | 1.6 in. | |
| Weight | 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 ±10% |
| Resistance with 7.5 kΩ load | 1450 Ω ±5% |
| | |

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