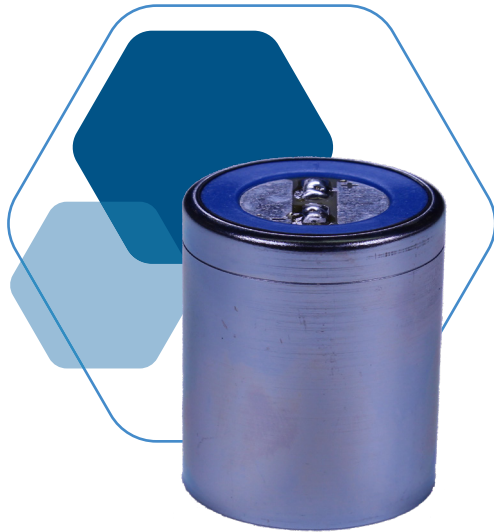


4.5 HZ FREQUENCY**SMALL SIZE WITH INCREASED SENSITIVITY****PRODUCT DESCRIPTION**

The GS-ONE LF 4.5 Hz geophone's improved sensitivity makes this single-element vibration monitoring system's designs compatible with the latest 24-bit data acquisition systems' capabilities to record the extended dynamic range and bandwidth.

FEATURE HIGHLIGHTS

- Moving mass: 25.2g (0.889 ounces)
- Maximum coil excursion p-p: Less than 3mm (0.120 inches)
- Diameter is 30.5 mm (1.2 inches)
- Height less terminals is 40.7 mm (1.6 inches)
- Weight is 131.00g (4.60 ounces)
- Operation and Storage Temperature Range -40 to 80°C
- Operation and Storage Temperature Range -40 to 176°F





GS-ONE-LF

Vertical

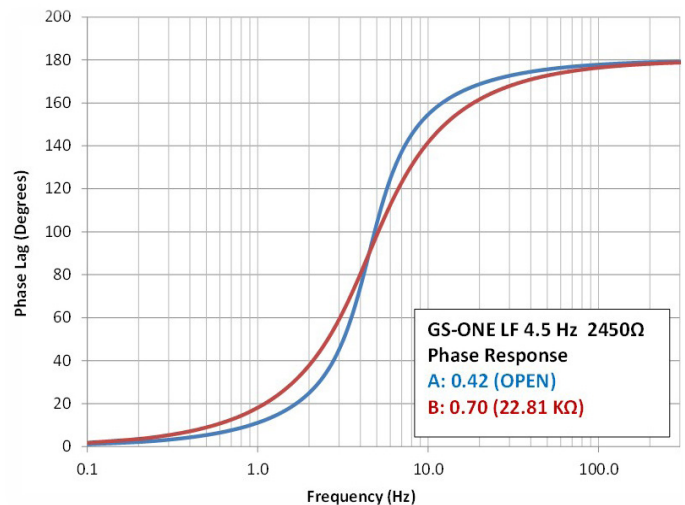
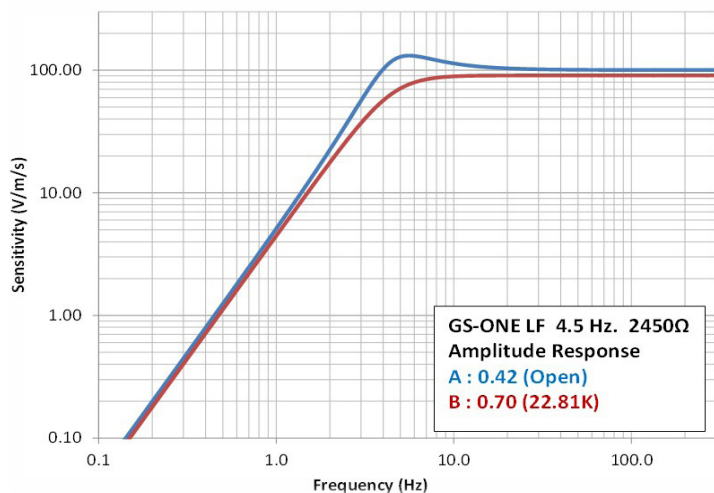
MECHANICAL SPECIFICATIONS

| | | |
|---|----------------|-----------------|
| Moving Mass | 25.2 g | 0.889 oz |
| Maximum coil excursion p-p | 3.05 mm | 0.120 in. |
| Diameter | 30.5 mm | 1.2 in. |
| Height | 40.6 mm | 1.6 in. |
| Weight | 131 g | 4.62 oz |
| Operating and Storage Temperature Range | -40°C to +80°C | -40°F to +176°F |

ELECTRICAL SPECIFICATIONS

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

| | |
|-------------------------------------|---|
| Open-circuit sensitivity | 2.55 V/in/s (100.4 V/m/s) +10%, -10% |
| Frequency | 4.5 Hz \pm 0.75 Hz |
| Spurious frequency | 120 Hz Typical |
| Distortion at vertical | 0.25% Typical measured at 12 Hz with 0.7 in/s p-p |
| Open-circuit damping | 0.42 \pm 0.10 |
| Coil resistance | 2450 Ω \pm 5% |
| Sensitivity with 20 k Ω load | 2.27 V/in/s (89.4 V/m/s) Typical |
| Damping with 20 k Ω load | 0.735 Typical |
| Tilt angle when coil hit end stop | 24° from vertical Typical |



GS-ONE-LF

Horizontal

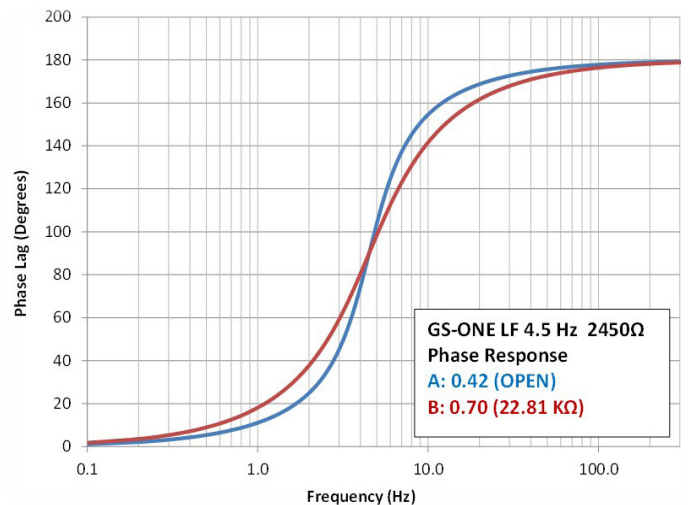
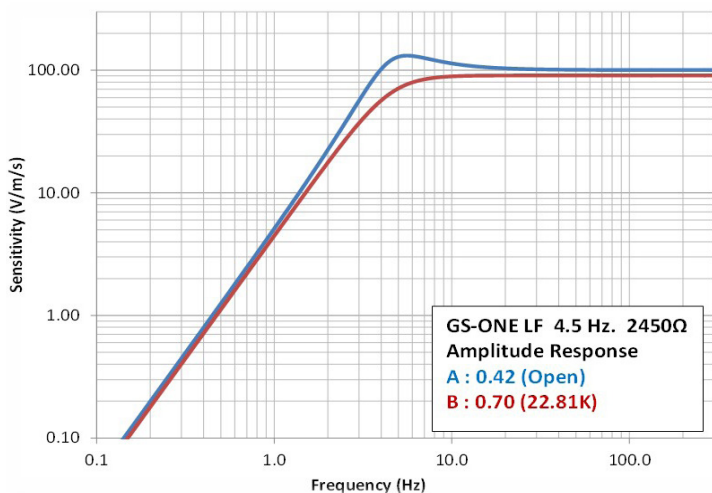
MECHANICAL SPECIFICATIONS

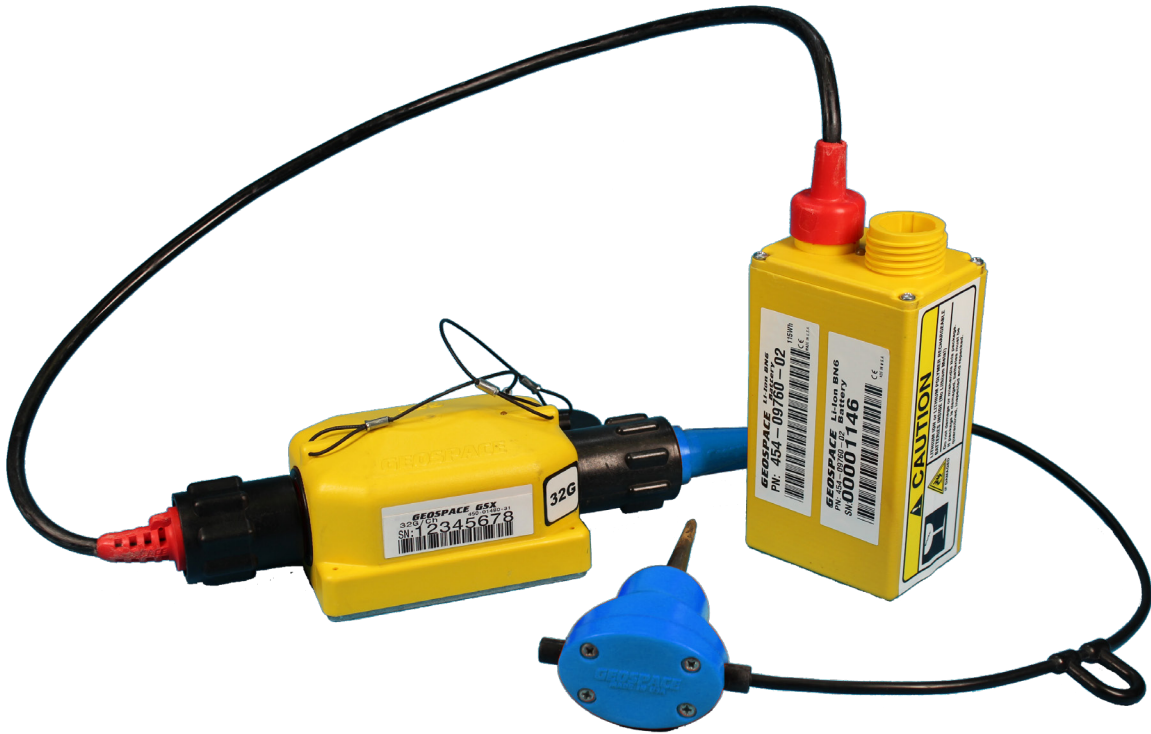
| | | |
|---|----------------|-----------------|
| Moving Mass | 25.2 g | 0.889 oz |
| Maximum coil excursion p-p | 3.05 mm | 0.120 in. |
| Diameter | 30.5 mm | 1.2 in. |
| Height | 40.6 mm | 1.6 in. |
| Weight | 131 g | 4.62 oz |
| Operating and Storage Temperature Range | -40°C to +80°C | -40°F to +176°F |

ELECTRICAL SPECIFICATIONS

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

| | |
|-------------------------------------|---|
| Open-circuit sensitivity | 2.55 V/in/s (100.4 V/m/s) +10%, -10% |
| Frequency | 4.5 Hz ± 0.75 Hz |
| Spurious frequency | 120 Hz Typical |
| Distortion at vertical | 0.25% Typical measured at 12 Hz with 0.7 in/s p-p |
| Open-circuit damping | 0.42 ± 0.10 |
| Coil resistance | 2450 Ω $\pm 5\%$ |
| Sensitivity with 20 k Ω load | 2.27 V/in/s (89.4 V/m/s) Typical |
| Damping with 20 k Ω load | 0.735 Typical |
| Tilt angle when coil hit end stop | 5° from horizontal Typical |





GS-ONE LF IN LAND CASE WITH GSX1 RECORDER AND BN6 BATTERY

SOLUTIONS FOR A SMARTER FUTURE

Specifications subject to change at sole discretion of Geospace Technologies.