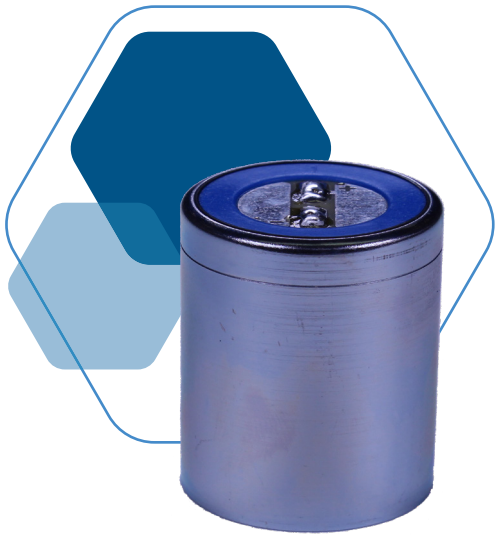
5 HZ GEOPHONE

SMALL SIZE WITH INCREASED SENSITIVITY



PRODUCT DESCRIPTION

The GS-ONE LF 5Hz 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

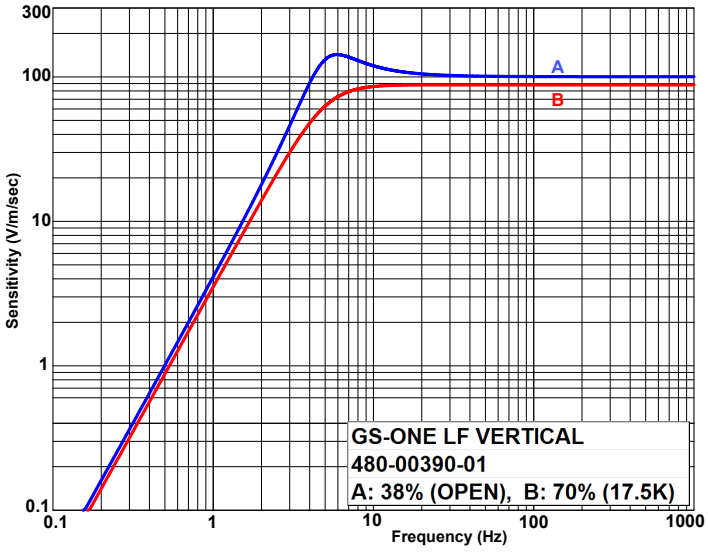
MECHANICAL SPECIFICATIONS

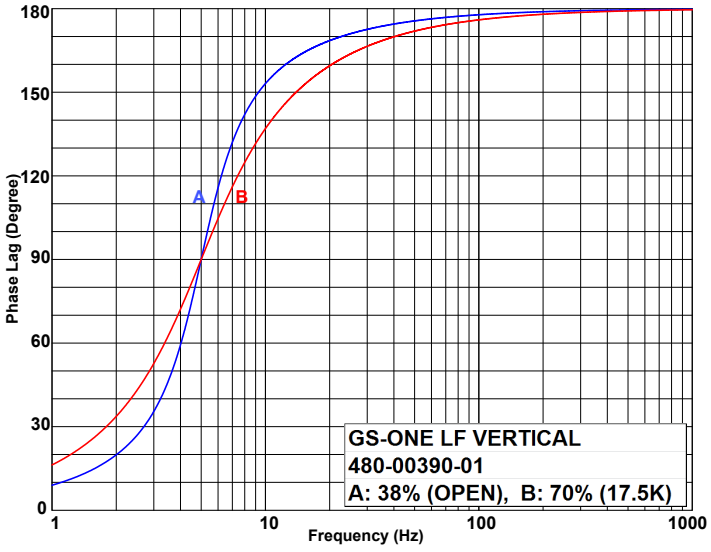
Moving Mass	25.2 g	0.889 oz
Maximum coil excursion p-p	3 mm	0.120 in.
Diameter	30.5 mm	1.2 in.
Height	40.7 mm	1.6 in.
Weight	131 g	4.60 oz
Operating and Storage Temperature Range	–40°C to +80°C	–40°F to +176°F

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) +5%, –5%
Frequency	5 Hz ±0.5 Hz
Spurious frequency	160 Hz Typical
Distortion at vertical	<0.15% measured at 12 Hz with 0.7 in/s p-p
Open-circuit damping	0.31 to 0.45
Coil resistance	2450 Ω ±5%
Sensitivity with 20 kΩ load	2.27 V/in/s (89.4 V/m/s) Typical
Damping with 20 kΩ load	0.67 Typical
Tilt angle when coil hit end stop	30° from vertical





GS-ONE-LF

Horizontal

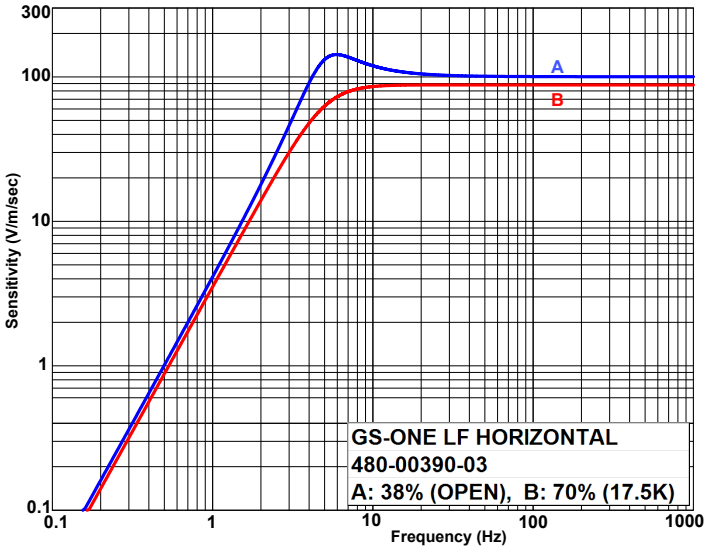
MECHANICAL SPECIFICATIONS

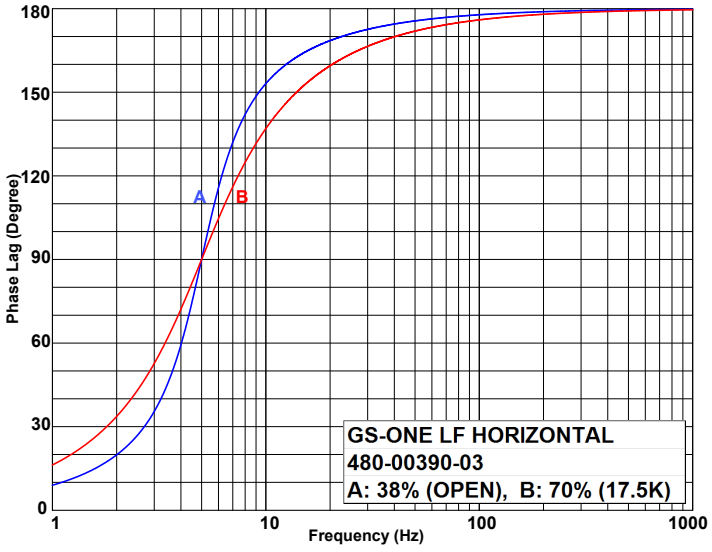
Moving Mass	25.2 g	0.889 oz
Maximum coil excursion p-p	3 mm	0.120 in.
Diameter	30.5 mm	1.2 in.
Height	40.7 mm	1.6 in.
Weight	131 g	4.60 oz
Operating and Storage Temperature Range	–40°C to +80°C	–40°F to +176°F

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) +5%, –5%
Frequency	5 Hz ±0.5 Hz
Spurious frequency	160 Hz Typical
Distortion at horizontal	<0.15% measured at 12 Hz with 0.7 in/s p-p
Open-circuit damping	0.31 to 0.45
Coil resistance	2450 Ω ±5%
Sensitivity with 20 kΩ load	2.27 V/in/s (89.4 V/m/s) Typical
Damping with 20 kΩ load	0.67 Typical
Tilt angle when coil hit end stop	8° from horizontal





GS-ONE-LF 5 HZ GEOPHONE

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.