



# GS-1

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

GS-1 seismometers are available in 1.0 and 2.0 Hz natural frequencies, and vertical or horizontal oriented models. Sensitivities range from 3.0 to 15.0 V/in/sec depending on coil configurations. Optional weather resistant cover (w/level bubble), calibration coil and adjustable leg bases are available. A vernier spring adjustment is included.

## Spec Sheet:

### GS-1 Specifications

Natural Frequency	1.0 Hz $\pm$ 10%
Orientation Angle	Vertical $\pm$ 7.5° Horizontal $\pm$ 0.5%
DC Resistance	450 ohms $\pm$ 5% 4550 ohms $\pm$ 5% 17,400 ohms $\pm$ 5%
Sensitivity (V/in/s)	3.0 V/in/sec $\pm$ 10% 7.0 V/in/sec $\pm$ 10% 15.0 V/in/sec $\pm$ 10%
Open Circuit Damping	.54 $\pm$ 20%
Moving Mass	700 grams $\pm$ 5%
Coil Excursion	> .25 in. P-P
Operating Temperature	-40° to 100° C
Dimensions (Basic Unit)	Height: 6.45 in. Diameter: 3.0 in. Weight: 69 oz.
Shock	50 G

Notes: Specification temperature is 25° C.