

SG-10

High Performance Geophone



- Lowest Distortion
- Highest Reliability



SG-10

Highest performance, highest reliability

A geophone's distortion can degrade the quality of the recorded seismic data by adding additional noise to the record. To minimize this negative impact, Sercel has introduced the SG-10 with the lowest available distortion specification.

With large 3D crews today having tens to hundreds of thousands of geophones, reliability is more important than ever. With the SG-10, Sercel has produced the most reliable geophone in the industry.

Geophysical crews today are equipped with the highest resolution systems ever to be used for seismic recording. The reliability of these systems, along with the advanced capabilities they bring, are moving the industry toward more dense spacing and more toward point sensor recording. The days when poor performing geophones could hide within a geophone array are quickly coming to an end. With the ability of latest generation systems to measure geophone performance, each phone must perform to specifications for every shot.

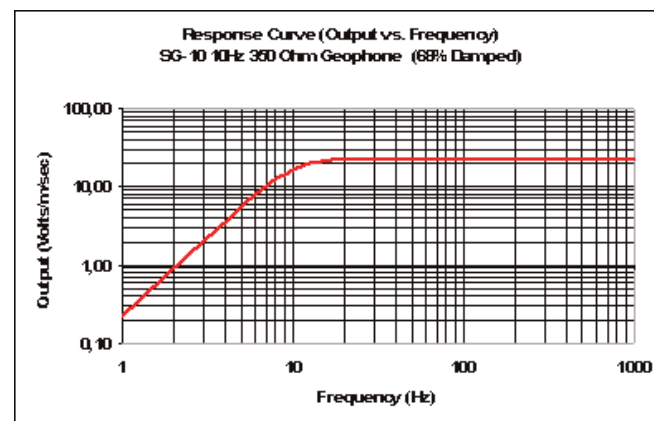
The SG-10 geophone was designed, from the beginning, to offer leading specifications that don't vary with environment or time and the highest reliability available in the industry today.

Specifications

Distortion	$\leq 0.075\%$ with tilt from 0° to 15° (1)
Spurious Frequency	Beyond 240 Hz
Natural Frequency	10 Hz \pm 2.5% with tilt from 0° to 15°
Open Circuit Damping	0.68 \pm 5%
Damping Constant	4925 Ω Hz
Sensitivity @ 68% Damping	22.8 V/m/sec \pm 2.5%
Coil Resistance	350 Ω
Moving Mass	8.4 g (0.29 oz)
Coil Travel	1.78 mm (0.07 in) peak-to-peak
Diameter	27.4 mm (1.08 in)
Length	30.15 mm (1.19 in)
Weight	78 g (2.74 oz)
Operating temperature range	-40 to +90°C

All parameters are specified at 20°C

(1) measured at 12 Hz and 17.8 mm/sec peak-to-peak velocity



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