

RGI-HP102 Geophone

RGI-HP102 Geophone Element (full compatibility with 32CT)
Seeking Perfection Manufacturing Excellence



Features

Tight specification, low-distortion geophone

- Enhanced spurious response over 250Hz for full bandwidth at 2-ms sampling
- Availability of horizontal element for S-wave and 3-C data acquisition
- Typical string distortion below 0.03% (12 series, damped 70%)
- 3-year non pro-rated warranty
- Lowest maintenance expenditure in the industry
- More reliable and better-performing internal structure
- Total sale over 1 million elements world-wide (est.)

Compatible with 32CT, The RGI-HP102 geophone element powered by cutting-edge field-proven RACOTECH sensor technology is dedicated to providing the highest performance in seismic exploration and high-precision data acquisition in 2-D and 3-D surveys.

The tight specifications and improved structure design as well as superior quality of the RGI-HP102 guarantee minimum maintenance expenditure in the industry.

RGI-HP102 meets the most stringent seismic requirements and parameters with a high level of reliability which will absolutely help increase the productivity and efficiency of your seismic crews.

Implementation: Suitable for land and TZ with multiple RACOTECH geophone cases

RACOTECH
GEOPHYSICAL INSTRUMENTS

Corporate Headquarters
111 Hengsheng Rd., Baoding Industrial Zone, Hebei 071000, China
Phone: +86 312 5092 058 / Fax: +86 312 5098 577 / Email: info@racotech.biz / www.racotech.biz

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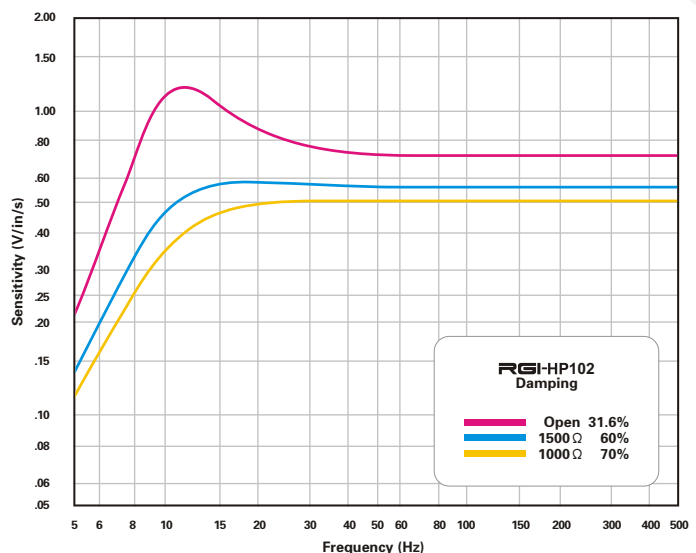
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Specifications (all parameters are specified at +25°C)

Frequency	
Natural frequency	10Hz ± 2.5%
Max. tilt angle for specified fn	200
Typical spurious frequency	> 250 Hz
Distortion	
Distortion with 0.7 in/s p-p coil to case velocity	< 0.10%
Distortion measurement frequency	12Hz
Max. tilt angle for distortion specification	100
Typical distortion (string of 12 geophones in series, measured at 12Hz)	≤ 0.03%
Damping	
Typical open circuit damping	0.316
Damping calibration shunt resistance	1,000 ohm
Damping with calibration shunt	0.7 ± 2.5%
Coil Resistance	
Standard	395 ohm ± 2.5%
Sensitivity	
Sensitivity without shunt resistor	27.5 V/m/s
Sensitivity with shunt 1,000 ohm	19.7 V/m/s ± 2.5%
Physical Characteristics	
Moving mass	11.2g (0.395 oz)
Maximum coil excursion p-p	1.52 mm (0.060 in)
Diameter	25.4 mm (1 in)
Height	33.0 mm (1.30 in)
Weight	87g (3.07 oz)
Operating temperature range	-40°C to +100°C

* Warranty excludes damage caused by high voltage and physical damage to the element case.

Frequency Response Curve



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