

RTC-40Hz

RTC Geophones are compatible with all field data acquisition systems.

Their excellent characteristics are compatible with larger, heavier, and more expensive units. High Quality, Low Cost Geophones for your Geophysical, Industrial, and Military Uses. Designed to yield the performance needed for scientific studies, yet has the ruggedness required for petroleum exploration work.



40Hz Elements Main Specifications (at 22°C)

Parameters \ Mode	RTC-40Hz
Frequency	
Natural Frequency (fn)	40 Hz
Tolerance	±5%
Max Tilt Angle For Specified fn	90°
Typical spurious frequency	>380 Hz
Distortion	
Distortion with 0.7 in/s p.p coil to case velocity	<0.2%
Distortion measurement frequency	40 Hz
Max tilt angle for distortion specification	90°
Damping	
Typical open circuit damping	0.37
Damping with 1500 Ohm shunt resistor	0.576
Tolerance	±5%
Coil Resistance	
Standard	575 ohm
Tolerance	±5%
Sensitivity	
Open Circuit Intrinsic Voltage Sensitivity	42 V/m/s
Sensitivity with 1500 Ohm shunt resistor	30.4 V/m/s
Tolerance	±5%
Physical	
Moving Mass	8.2 g
Maximum coil excursion p.p	1.5 mm
Diameter	27 mm
Height	33.3 mm
Weight	95 g
Operating temperature range	-40°C ~ +100°C
Warranty Period	3 years

R.T. Clark

P.O. Box 20957 Oklahoma City, OK USA 73156
Tele: +1 -405- 751-9696 Fax: +1 -405- 751-6711
web:www.rtolark.com Email: rtclark@rtclark.com
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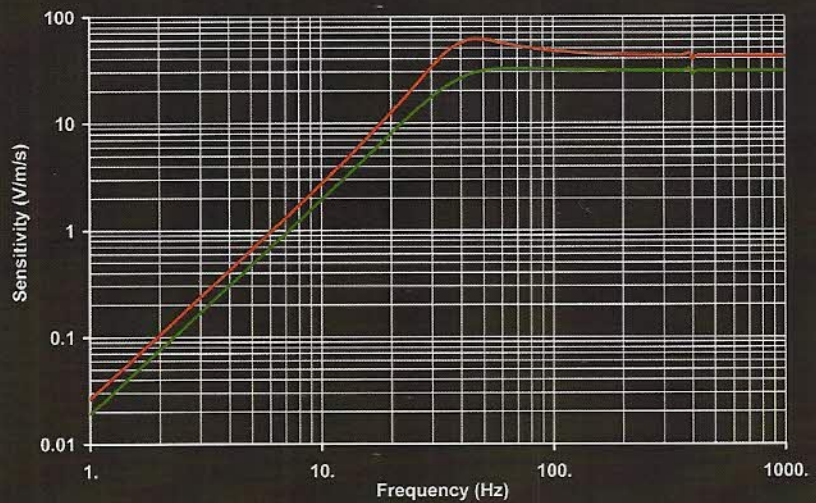
RTC-40Hz

Geophone Response Curve

Geo Type : RTC-40Hz

Frequency : 40. Hz
 Moving Mass : 8.2 g
 Nr of geophones in series: 1.
 Nr of parallel branches: 1.

	Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Curve 1	O.C.	575.00	0.370	42.00
Curve 2	1,500	415.66	0.576	30.36

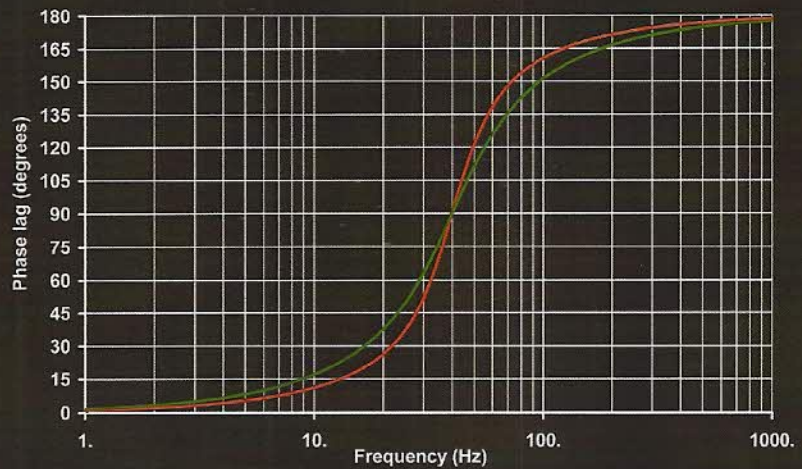


Geophone Phase Lag (signal relative to case velocity)

Geo Type : RTC-40Hz

Frequency : 40. Hz
 Moving Mass : 8.2 g
 Nr of geophones in series: 1.
 Nr of parallel branches: 1.

	Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Curve 1	O.C.	575.00	0.370	42.00
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