

RTC-14Hz-395

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. 100% compatible with other manufactures 14hz, 395 ohm geophones.



14Hz Elements Main Specifications (at 22°C)

Parameters \ Mode	RTC-14Hz-395
Frequency	
Natural frequency (fn)	14Hz
Tolerance	±5%
Max. tilt angle for specified fn	20°
Typical spurious frequency	>240 Hz
Distortion	
Distortion with 0.7 in/s p.p coil to case velocity	<0.2%
Distortion measurement frequency	14 Hz
Max. tilt angle for distortion specification	20°
Damping	
Typical open circuit damping	0.22
Damping with 1000 Ohm shunt resistor	0.51
Tolerance	±5%
Coil resistance	
Standard	395 Ohm
Tolerance	±5%
Sensitivity	
Open circuit intrinsic voltage sensitivity	28 V/m/s
Sensitivity with 1000 Ohm shunt resistor	20.1 V/m/s
Tolerance	±5%
Physical	
Moving mass	11 g
Maximum coil excursion p.p	1.5 mm
Diameter	25.4 mm
Height	33.3 mm
Weight	86 g
Operating temperature range	-40°C ~ +70°C
Warranty period	3 years

 R.T. Clark

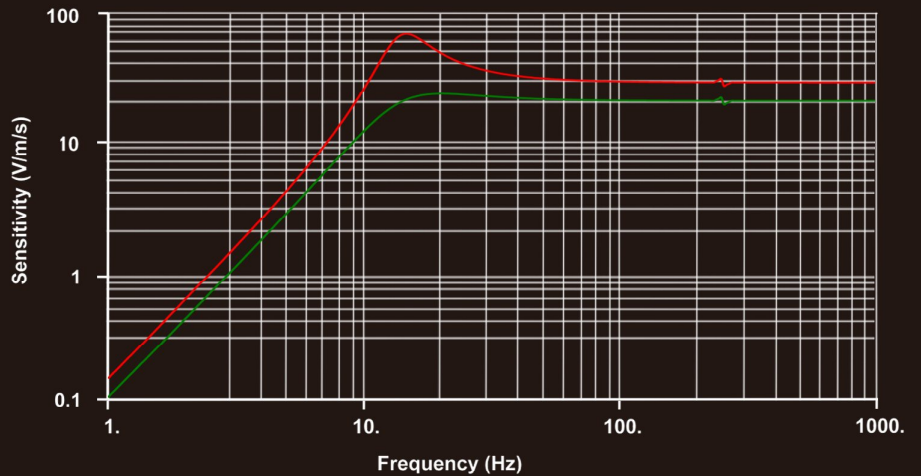
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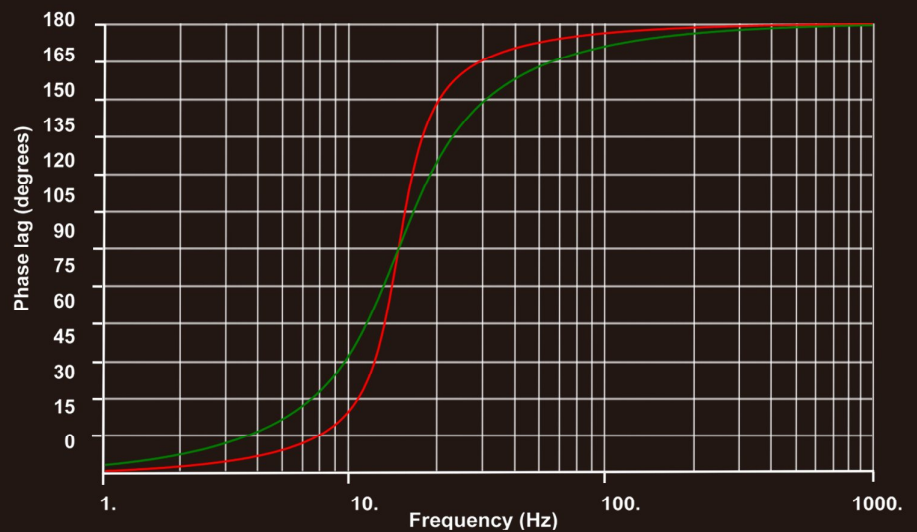
Geophone Response Curve

Geo Type : RTC-14Hz-395			Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Frequency :	14.	Hz	O.C.	395.00	0.220	28.00
Moving Mass :	11.	g	1,000	283.15	0.510	20.07
Nr of geophones in series:	1.					
Nr of parallel branches:	1.					



Geophone Phase Lag (signal relative to case velocity)

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