

RTC-10Hz-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 10hz, 395 ohm geophones.



10Hz Elements Main Specifications (at 25°C)

Parameters \ Mode	RTC-10Hz-395
Frequency	
Natural Frequency (fn)	10 Hz
Tolerance	±2.5%
Max Tilt Angle For Specified fn	20°
Typical spurious frequency	>250 Hz
Distortion	
Distortion with 0.7 in/s p.p coil to case velocity	<0.1%
Distortion measurement frequency	12 Hz
Max tilt angle for distortion specification	10°
Damping	
Typical open circuit damping	0.316
Damping with 1000 Ohm shunt resistor	0.7
Tolerance	±2.5%
Coil Resistance	
Standard	395 ohm
Tolerance	±2.5%
Sensitivity	
Open Circuit Intrinsic Voltage Sensitivity	27.5 V/m/s
Sensitivity with 1000 Ohm shunt resistor	19.7 V/m/s
Tolerance	±2.5%
Physical	
Moving Mass	11.2 g
Maximum coil excursion p.p	1.52 mm
Diameter	25.4 mm
Height	33.3 mm
Weight	86 g
Operating temperature range	-40°C ~ +100°C
Warranty Period	3 years

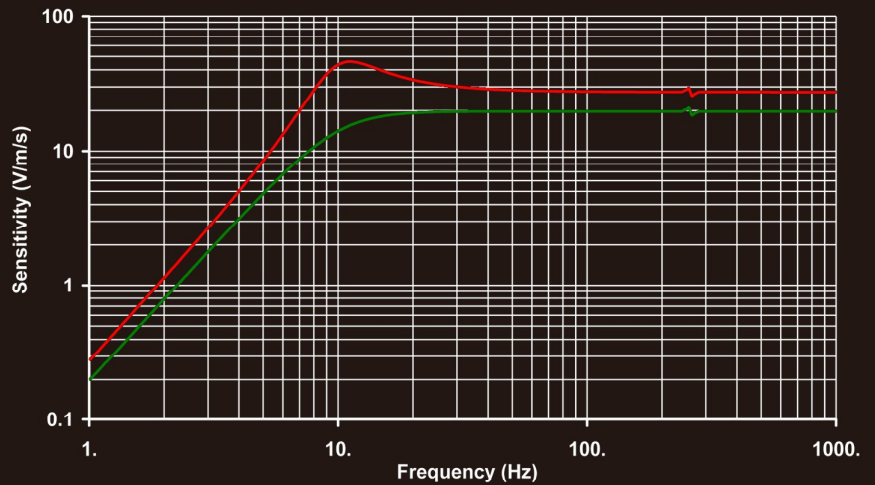
 R.T. Clark

P.O. Box 20957 Oklahoma City, OK USA 73156
Tele: +1 -405- 751-9696 Fax: +1 -405- 751-6711
web:www.rtclark.com Email: rtclark@rtclark.com
© RTC 11/12

RTC-10Hz-395

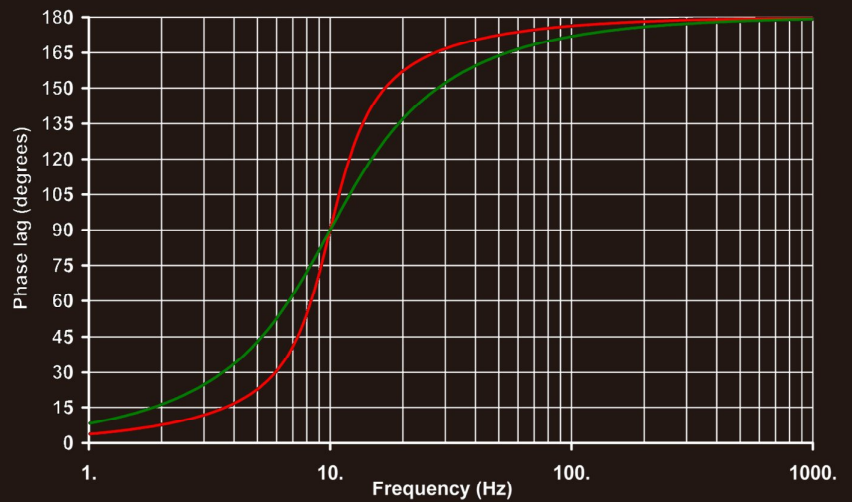
Geophone Response Curve

Geo Type : RTC-10Hz-395		Shunt (ohm)	R _{total} (ohm)	Damping	Sensitivity V/m/s
Frequency :	10. Hz	O.C.	395.00	0.316	27.50
Moving Mass :	11.2 g	1,000	283.15	0.701	19.71
Nr of geophones in series:	1.				
Nr of parallel branches:	1.				



Geophone Phase Lag (signal relative to case velocity)

Geo Type : RTC-10Hz-395		Shunt (ohm)	R _{total} (ohm)	Damping	Sensitivity V/m/s
Frequency :	10. Hz	O.C.	395.00	0.316	27.50
Moving Mass :	11.2 g	1,000	283.15	0.701	19.71
Nr of geophones in series:	1.				
Nr of parallel branches:	1.				



R.T. Clark

P.O. Box 20957 Oklahoma City, OK USA 73156
 Tele: +1 -405- 751-9696 Fax: +1 -405- 751-6711
 web: www.rtclark.com Email: rtclark@rtclark.com
 © RTC 11/12