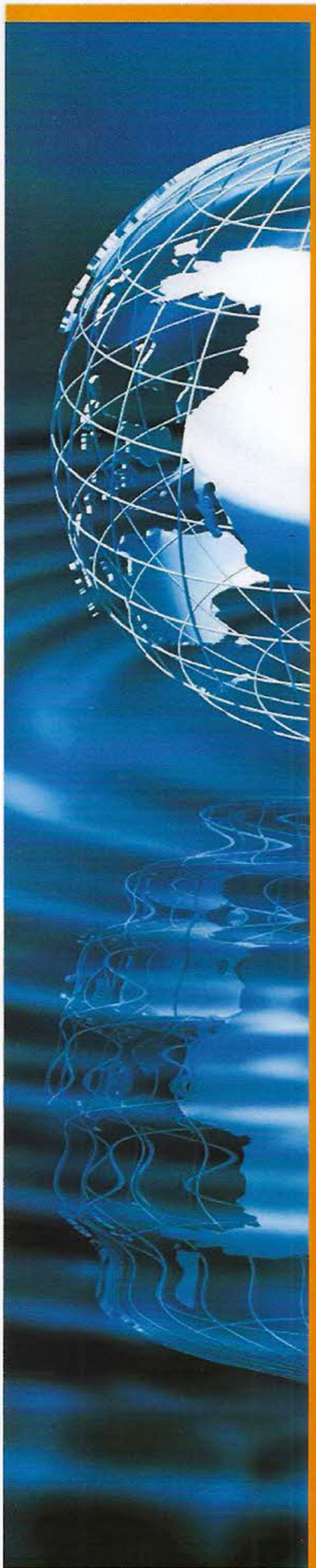

RTC-100Hz

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. Internally dampened to eliminate external noise.

100Hz Elements Main Specifications (at 22℃)

Parameters \ Mode	RTC-100Hz
Frequency	
Natural Frequency (fn)	100 Hz
Tolerance	±7.5%
Max Tilt Angle For Specified fn	90°
Typical spurious frequency	>400 Hz
Distortion	
Distortion with 0.7 in/s p.p coil to case velocity	<0.2%
Distortion measurement frequency	100 Hz
Max tilt angle for distortion specification	90°
Damping	
Typical open circuit damping	0.55
Damping with 1500 Ohm shunt resistor	0.62
Tolerance	±7.5%
Coil Resistance	
Standard	832 ohm
Tolerance	±5%
Sensitivity	
Open Circuit Intrinsic Voltage Sensitivity	52.5 V/m/s
Sensitivity with 1500 Ohm shunt resistor	33.8 V/m/s
Tolerance	±7.5%
Physical	
Moving Mass	7.6 g
Maximum coil excursion p.p	1.5 mm
Diameter	27 mm
Height	33.3 mm
Weight	97 g
Operating temperature range	-40℃ ~ +70℃
Warranty Period	3 years

R.T. Clark

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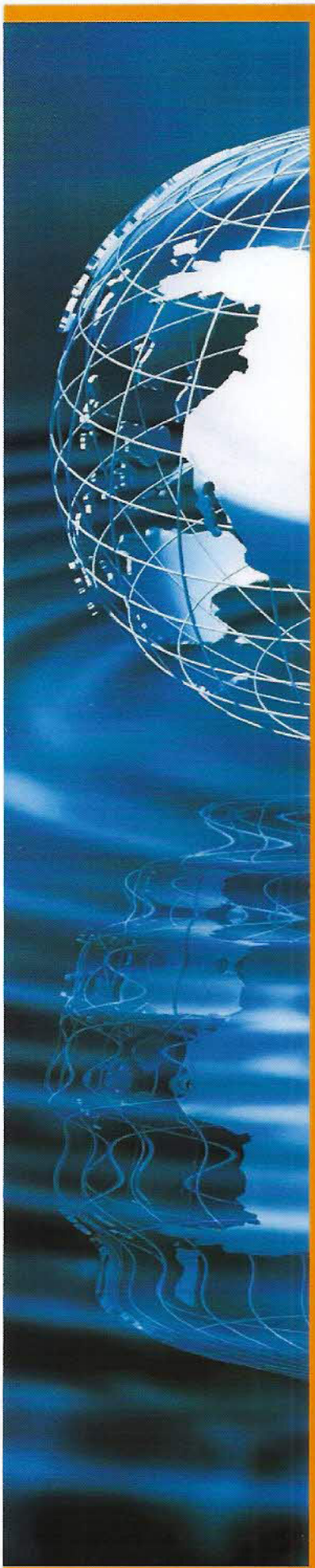
web:www.rtclark.com Email: rtclark@rtclark.com



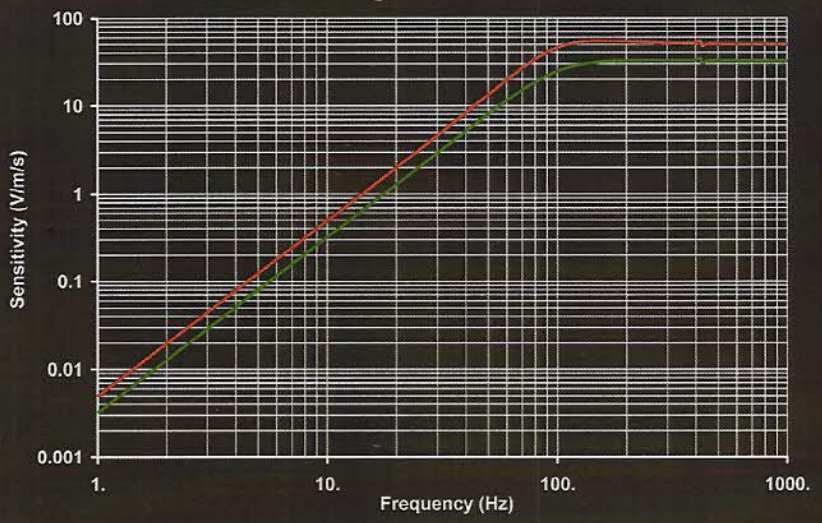
RTC-100Hz

Geophone Response Curve

Geo Type : RTC-100Hz

Frequency : 100. Hz
Moving Mass : 7.6 g
Nr of geophones in series: 1.
Nr of parallel branches: 1.

	Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Curve 1	0. C.	832.00	0.550	52.50
Curve 2	1,500	535.16	0.620	33.77

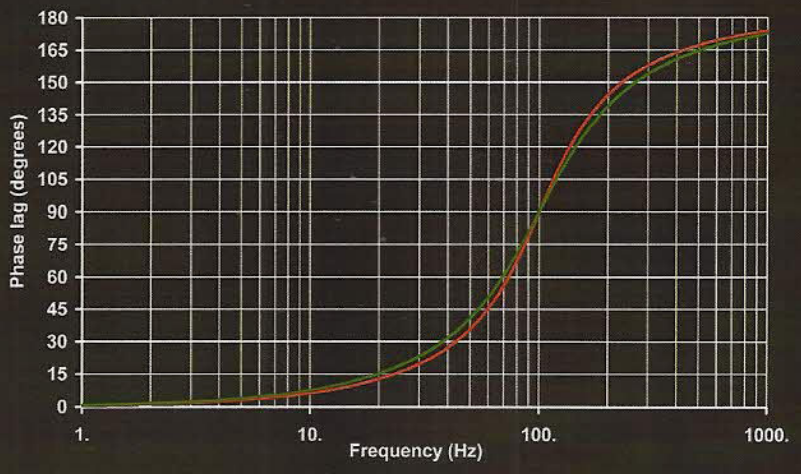


Geophone Phase Lag (signal relative to case velocity)

Geo Type : RTC-100Hz

Frequency : 100. Hz
Moving Mass : 7.6 g
Nr of geophones in series: 1.
Nr of parallel branches: 1.

	Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Curve 1	0. C.	832.00	0.550	52. 50
Curve 2	1,500	535.16	0.620	33. 77



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