

RTC-4.5Hz-375

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.



4.5Hz Elements Main Specifications (at 20°C)

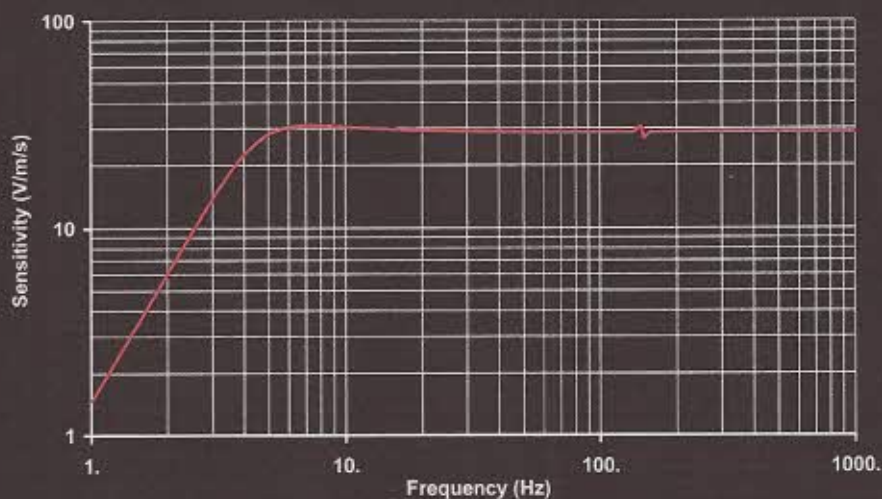
Parameters \ Mode	RTC-4.5Hz-375
Frequency	
Natural Frequency (fn)	4.5 Hz
Tolerance	±0.5 Hz
Max Tilt Angle For Specified fn	0°
Typical spurious frequency	>140 Hz
Distortion	
Distortion with 0.7 in/s p.p coil to case velocity	<0.3%
Distortion measurement frequency	12 Hz
Max tilt angle for distortion specification	0°
Damping	
Typical open circuit damping	0.56
Tolerance	±5%
Coil Resistance	
Standard	375 ohm
Tolerance	±5%
Sensitivity	
Sensitivity	28.8 V/m/s
Tolerance	±5%
RtBcFn (Ohm Hz)	6000
Physical	
Moving Mass	11.1 g
Maximum coil excursion p.p	4.0 mm
Diameter	25.4 mm
Height	36 mm
Weight	81 g
Operating temperature range	-40°C ~ +100°C
Warranty Period	1 year

R.T. Clark

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

Geophone Response Curve

Geo Type : RTC-4.5Hz-375		Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s	
Frequency :	4.5 Hz	Curve 1	O.C.	375.00	0.560	28.80
Moving Mass :	11.1 g					
Nr of geophones in series :	1.					
Nr of parallel branches :	1.					



Geophone Phase Lag (signal relative to case velocity)

Geo Type : RTC-4.5Hz-375		Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s	
Frequency :	4.5 Hz	Curve 1	O.C.	375.00	0.560	28.80
Moving Mass :	11.1 g					
Nr of geophones in series :	1.					
Nr of parallel branches :	1.					

