

## 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℃)

4.5HZ Elements Main Specifica	1110110 (at <b>20</b> 0)					
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℃ ~ +100℃					
Warranty Period	1 year					

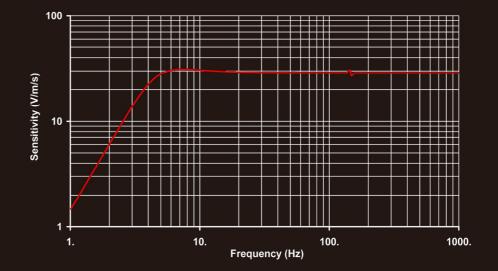




# RTC-4.5Hz-375

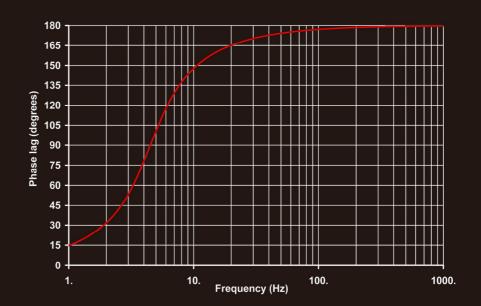
#### **Geophone Response Curve**

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.						





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