

## RTC-28Hz

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.



### 28Hz Elements Main Specifications (at 22°C)

Parameters \ Mode	RTC-28Hz
<b>Frequency</b>	
Natural Frequency (fn)	28 Hz
Tolerance	±5%
Max Tilt Angle For Specified fn	90°
Typical spurious frequency	>350 Hz
<b>Distortion</b>	
Distortion with 0.7 in/s p.p coil to case velocity	<0.2%
Distortion measurement frequency	28 Hz
Max tilt angle for distortion specification	90°
<b>Damping</b>	
Typical open circuit damping	0.27
Damping with 1000 Ohm shunt resistor	0.552
Tolerance	±5%
<b>Coil Resistance</b>	
Standard	395 ohm
Tolerance	±5%
<b>Sensitivity</b>	
Open Circuit Intrinsic Voltage Sensitivity	39 V/m/s
Sensitivity with 1000 Ohm shunt resistor	28 V/m/s
Tolerance	±5%
<b>Physical</b>	
Moving Mass	11 g
Maximum coil excursion p.p	1.5 mm
Diameter	27 mm
Height	33.3 mm
Weight	95 g
Operating temperature range	-40°C ~ +100°C
Warranty Period	3 years

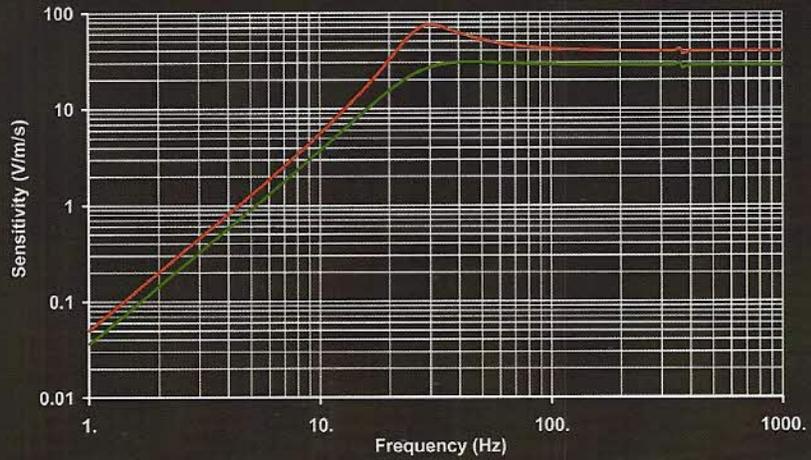
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# RTC-28Hz

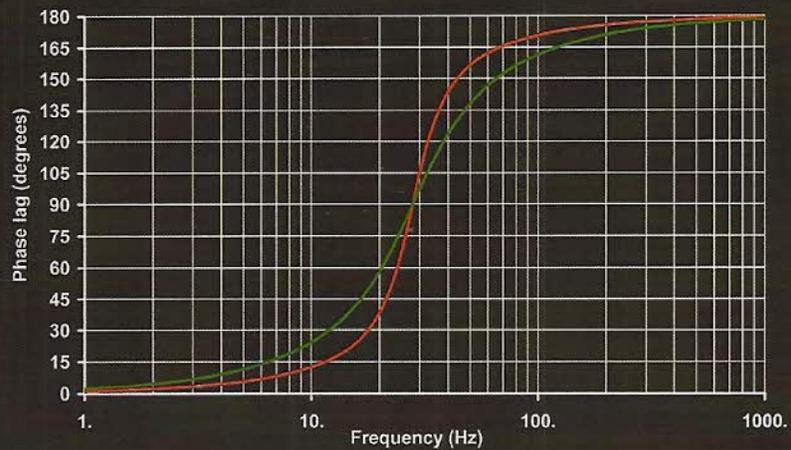
## Geophone Response Curve

Geo Type : RTC-28Hz		Shunt (ohm)	R <sub>total</sub> (ohm)	Damping	Sensitivity V/m/s
Frequency :	28. Hz	Curve 1	O.C.	0.270	39.00
Moving Mass :	11. g	Curve 2	1,000	0.552	27.96
Nr of geophones in series:	1.				
Nr of parallel branches:	1.				



## Geophone Phase Lag (signal relative to case velocity)

Geo Type : RTC-28Hz		Shunt (ohm)	R <sub>total</sub> (ohm)	Damping	Sensitivity V/m/s
Frequency :	28. Hz	Curve 1	O.C.	0.270	39.00
Moving Mass :	11. g	Curve 2	1,000	0.552	27.96
Nr of geophones in series:	1.				
Nr of parallel branches:	1.				



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