

## RTC-40Hz

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.



### 40Hz Elements Main Specifications (at 22°C)

Parameters \ Mode	RTC-40Hz
<b>Frequency</b>	
Natural Frequency (fn)	40 Hz
Tolerance	±5%
Max Tilt Angle For Specified fn	90°
Typical spurious frequency	>380 Hz
<b>Distortion</b>	
Distortion with 0.7 in/s p.p coil to case velocity	<0.2%
Distortion measurement frequency	40 Hz
Max tilt angle for distortion specification	90°
<b>Damping</b>	
Typical open circuit damping	0.37
Damping with 1500 Ohm shunt resistor	0.576
Tolerance	±5%
<b>Coil Resistance</b>	
Standard	575 ohm
Tolerance	±5%
<b>Sensitivity</b>	
Open Circuit Intrinsic Voltage Sensitivity	42 V/m/s
Sensitivity with 1500 Ohm shunt resistor	30.4 V/m/s
Tolerance	±5%
<b>Physical</b>	
Moving Mass	8.2 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

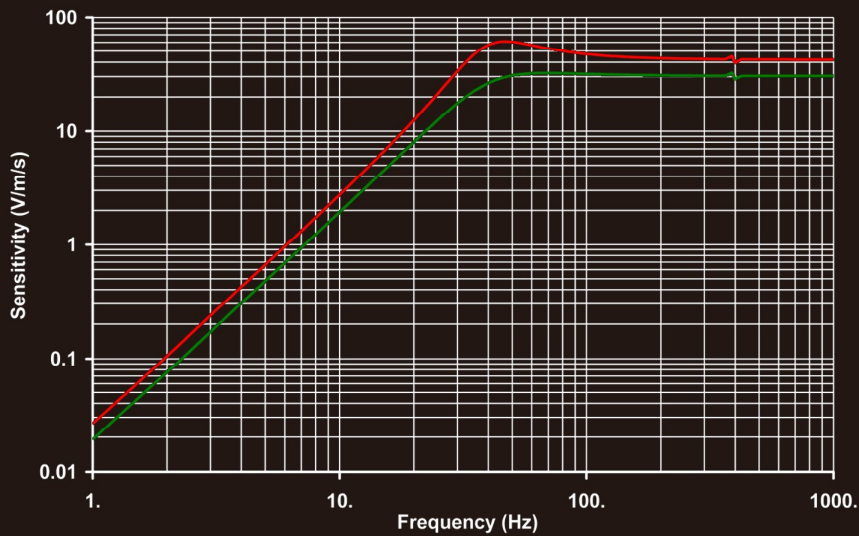
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# RTC-40Hz

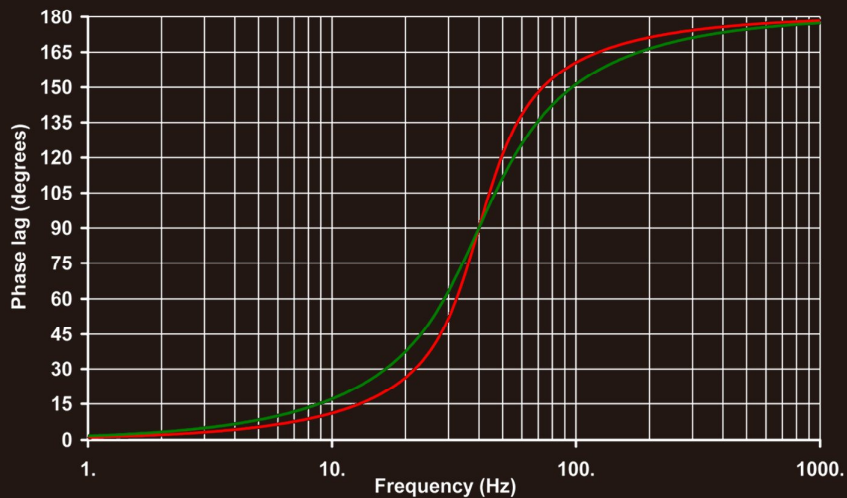
## Geophone Response Curve

Geo Type : RTC-40Hz		Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Frequency :	40. Hz	Curve 1 O.C.	575.00	0.370	42.00
Moving Mass :	8.2 g	Curve 2 1,500	415.66	0.576	30.36
Nr of geophones in series:	1.				
Nr of parallel branches:	1.				



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

Geo Type : RTC-40Hz		Shunt (ohm)	R total (ohm)	Damping	Sensitivity V/m/s
Frequency :	40. Hz	Curve 1 O.C.	575.00	0.370	42.00
Moving Mass :	8.2 g	Curve 2 1,500	415.66	0.576	30.36
Nr of geophones in series:	1.				
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