

## RTC-14Hz-395

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. 100% compatible with other manufactures 14hz, 395 ohm geophones.



### 14Hz Elements Main Specifications (at 22°C)

| Parameters \ Mode                                  | RTC-14Hz-395  |
|--|---------------|
| <b>Frequency</b>                                   |               |
| Natural frequency (fn)                             | 14Hz          |
| Tolerance  | ±5%           |
| Max. tilt angle for specified fn                   | 20°           |
| Typical spurious frequency                         | >240 Hz       |
| <b>Distortion</b>                                  |               |
| Distortion with 0.7 in/s p.p coil to case velocity | <0.2%         |
| Distortion measurement frequency                   | 14 Hz         |
| Max. tilt angle for distortion specification       | 20°           |
| <b>Damping</b>                                     |               |
| Typical open circuit damping                       | 0.22          |
| Damping with 1000 Ohm shunt resistor               | 0.51          |
| Tolerance  | ±5%           |
| <b>Coil resistance</b>                             |               |
| Standard   | 395 Ohm       |
| Tolerance  | ±5%           |
| <b>Sensitivity</b>                                 |               |
| Open circuit intrinsic voltage sensitivity         | 28 V/m/s      |
| Sensitivity with 1000 Ohm shunt resistor           | 20.1 V/m/s    |
| Tolerance  | ±5%           |
| <b>Physical</b>                                    |               |
| Moving mass  | 11 g          |
| Maximum coil excursion p.p                         | 1.5 mm        |
| Diameter   | 25.4 mm       |
| Height   | 33.3 mm       |
| Weight   | 86 g          |
| Operating temperature range                        | -40°C ~ +70°C |
| Warranty period                                    | 3 years       |

**R.T. Clark**

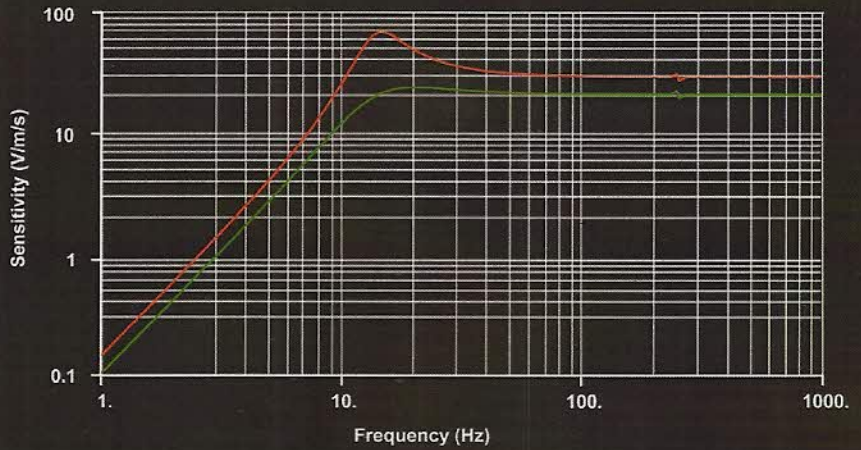
P.O. Box 20957 Oklahoma City, OK USA 73156  
Tele: +1 -405- 751-9696 Fax: +1 -405- 751-6711  
web:www.rtcclark.com Email: rtcclark@rtcclark.com

© RTC 2/13

# RTC-14Hz-395

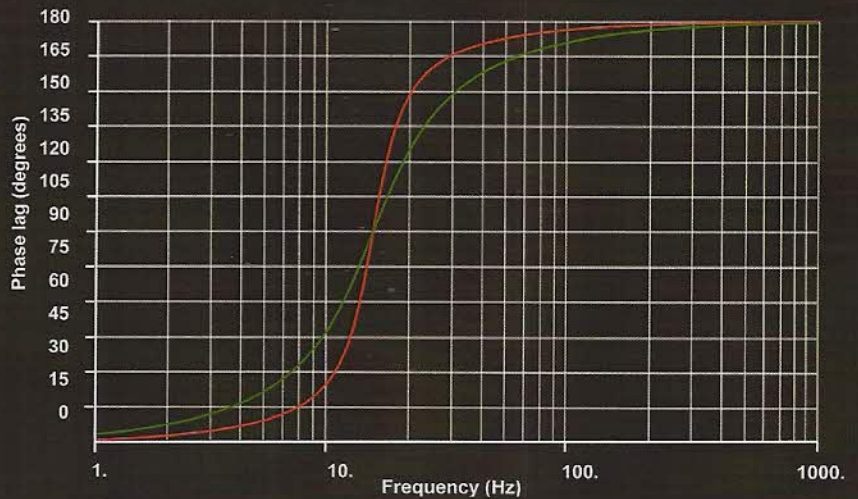
## Geophone Response Curve

| Geo Type : RTC-14Hz-395     |        | Shunt (ohm) | R total (ohm) | Damping | Sensitivity V/m/s |
|-----------------------------|--------|-------------|---------------|---------|-------------------|
| Frequency :                 | 14. Hz | O.C.        | 395.00        | 0.220   | 28.00             |
| Moving Mass :               | 11. g  | 1,000       | 283.15        | 0.510   | 20.07             |
| Nr of geophones in series : | 1.     |             |               |         |                   |
| Nr of parallel branches :   | 1.     |             |               |         |                   |



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

| Geo Type : RTC-14Hz-395     |        | Shunt (ohm) | R total (ohm) | Damping | Sensitivity V/m/s |
|-----------------------------|--------|-------------|---------------|---------|-------------------|
| Frequency :                 | 14. Hz | O.C.        | 395.00        | 0.220   | 28.00             |
| Moving Mass :               | 11. g  | 1,000       | 283.15        | 0.510   | 20.07             |
| Nr of geophones in series : | 1.     |             |               |         |                   |
| Nr of parallel branches :   | 1.     |             |               |         |                   |



**R.T. Clark**

P.O. Box 20957 Oklahoma City, OK USA 73156  
 Tele: +1 -405- 751-9696 Fax: +1 -405- 751-6711  
 web:www.rtlark.com Email: rtlark@rtlark.com  
 © RTC 2/13