

Compañía Internacional de Telecomunicaciones

Vibration sensor / Geofon GEO series

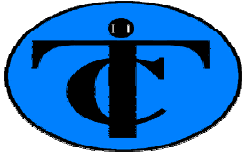
(4Hz-1kHz)



Claudio Arrau 0349, Providencia Santiago de Chile

Fono: 6651475 Fax: 6356472

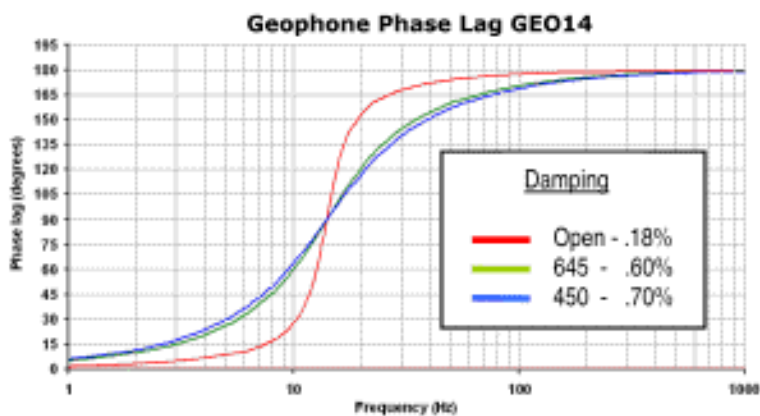
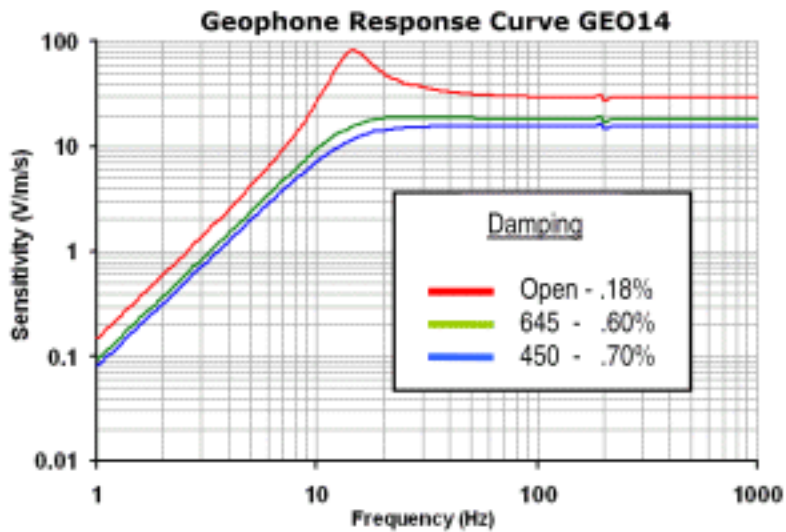
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Specification:

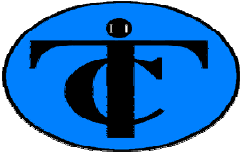
- **GEO14:**
- Natural frequency: **14Hz**
- Typical frequency range: **10Hz-1kHz**
- Sensitivity: 28.8 V/m/s
- Accuracy: +/-5%
- Typical spurious frequency: 190Hz
- Coil impedance: 375 Ohm
- Dimensions (D/H):25.4x32mm
- Weight: 74g
- Connector: SMA socket
- **Warranty: 3 years**



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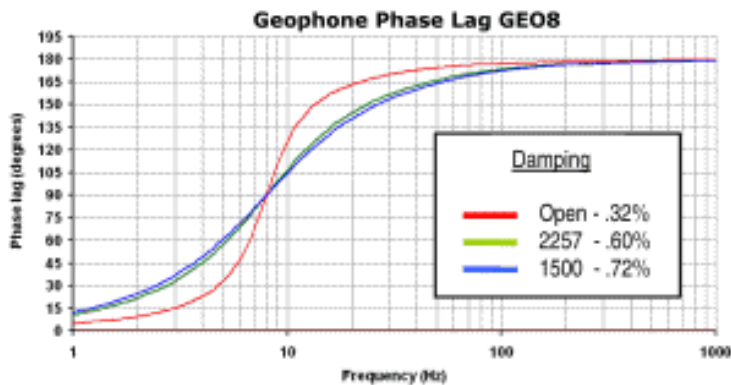
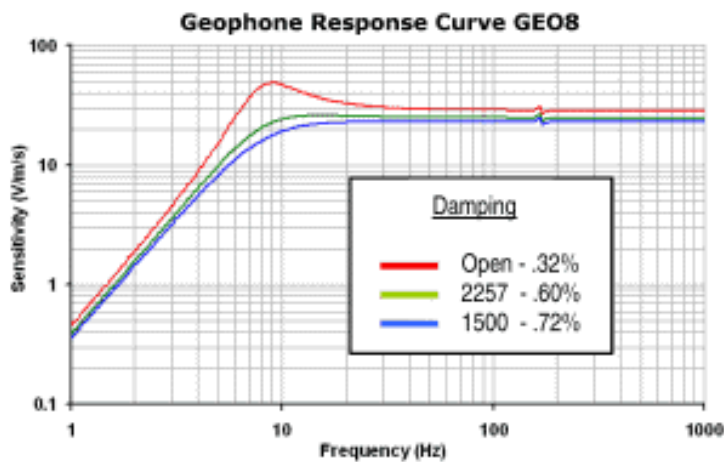
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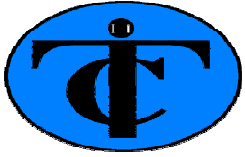
- **GEO10:**
- Natural frequency: **8Hz**
- Typical frequency range: **4Hz-1kHz**
- Sensitivity: 28.8 V/m/s
- Accuracy: +/-5%
- Typical spurious frequency: 160Hz
- Coil impedance: 375 Ohm
- Dimensions (D/H):25.4x36mm
- Weight: 82g
- Connector: SMA socket
- **Warranty: 3 years**



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Included in delivery:

- Vibration sensor (GEO10 or GEO14)
- 1m SMA cable



Details:

Vibrations can cause a multitude of problems. The highly sensitive vibration sensors of our GEO series offer a surprisingly high sensitivity over a **wide frequency range down to 8Hz (4Hz)**. They are especially suitable for detecting vibrations in machines and electronic circuitry or in the working environment, as well as monitoring **compliance with (official) exposure limits**.

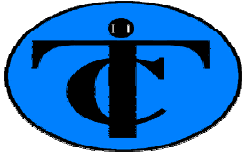
In addition to regular monitoring, thanks to their high sensitivity, these probes can also be used as geophones to **measure ground motion (displacement)**.

In conjunction with our 50xx series spectrum analyzers and our free PC software "LCS", the entire frequency range between 8Hz (4Hz) and 1kHz can be analyzed, monitored and documented. **Long-term recording** for days or even weeks is not a problem at all, either. These sensors are equipped with a 1m SMA cable, allowing direct connection to the high-sensitivity signal input of our SPECTRAN instruments.

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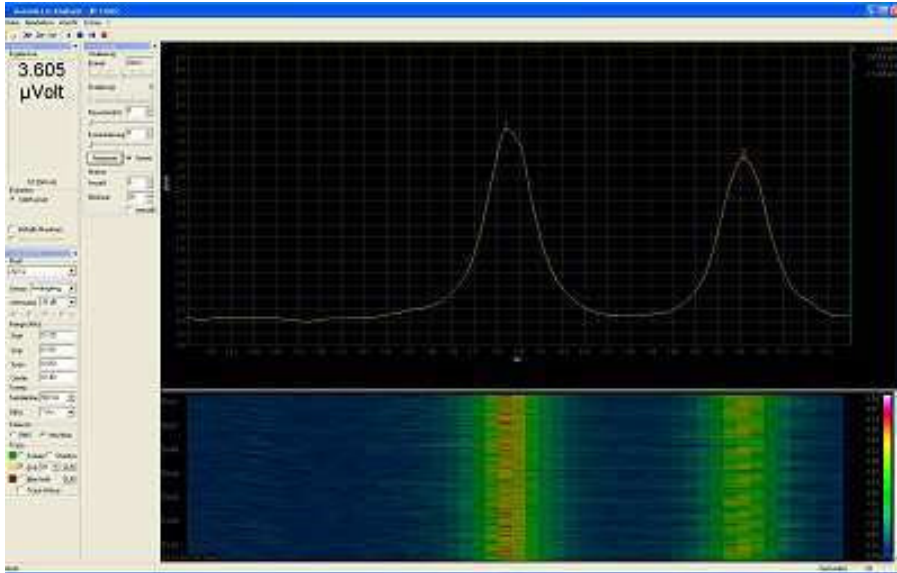
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Vibrations can cause a multitude of problems.



Vibration measurement using our free LCS software.

The adjoining image shows the results of a typical **vibration measurement on a PC case**. The internal fans and the hard disk generate a multitude of vibrations which can quickly and easily be analyzed using our free LCS software. This example reveals 139.4Hz at 3.605 μ V and 150.2Hz at 3.134 μ V

Frequency range overview of Aaronia precision antennas and probes:

1Hz	10Hz	100Hz	1kHz	10kHz	100kHz	1MHz	10MHz	100MHz	1GHz	10GHz	100GHz
									HyperLOG 7025		
									HyperLOG 7040		
									HyperLOG 7060		
									HyperLOG 6030		
									HyperLOG 60100		
									HyperLOG 60180		
									HyperLOG 4025		
									HyperLOG 4040		
									HyperLOG 4060		
									HyperLOG 3080		
									HyperLOG 30100		
									HyperLOG 30180		
									BicoLOG 5070		
									BicoLOG 30100		
									BicoLOG 20100		
									BicoLOG 20300		
									Aaronia EMV Probe-Set PBS1 & PBS2		
									Aaronia Active Differential Probe (NF-50xx series)		
									Geophon (Aaronia GEO Series)		

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