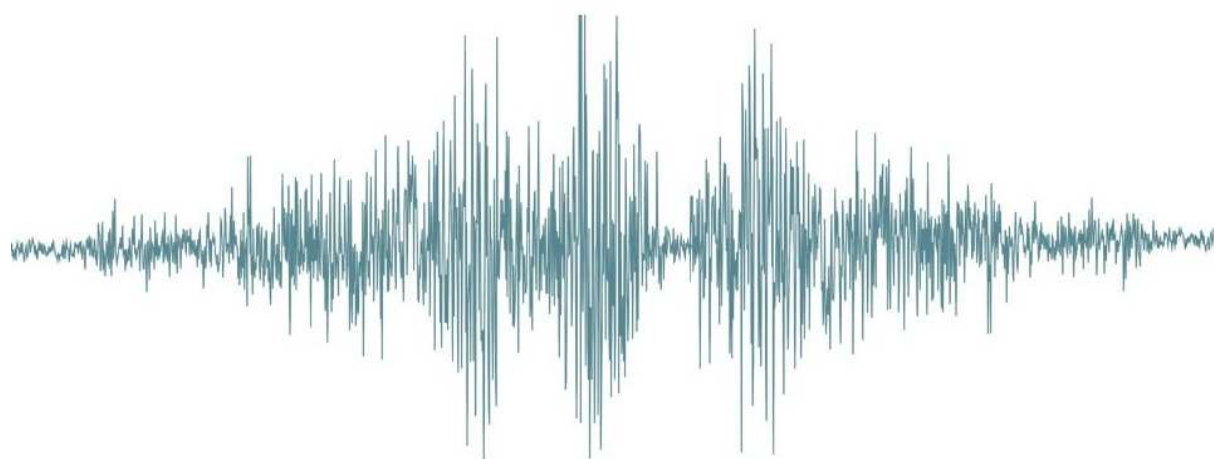




## **Sunfull PS-4.5F**

### **4.5 Hz Low Frequency Geophone**



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#### **CONTACT**

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PS-4.5F geophone is a kind of low frequency geophone with high sensitivity developed following request of seismic exploration and engineering which is mainly to receive deep level, low frequency and weak signal. It can be used as single point and also 3-component.



**Manufactured in China  
by Sunfull**

- **Low Frequency**
- **High sensitivity: 82V/m/s**
- **High SNR and wide dynamic range**
- **Low distortion**
- **Vertical & Horizontal available**
- **Field proven rugged construction**
- **Standard coil 375 ohm**  
**(other coil resistances available on request)**

- The 4.5 Hz Low Frequency Geophone is a long coil travel version.
- The long coil travel offers an advantage for the higher tilt requirements of the sensor.
- The 4.5 Hz Low Frequency Geophone is ideal for industrial vibration monitoring and many other applications.
- The 4.5 Hz Low Frequency Geophone can be supplied for vertical or horizontal orientation.
- Specialized versions (and other frequencies) are available on request.
- The 4.5 Hz Low Frequency Geophone is an ideal choice for the shear-wave horizontal elements, and can also be supplied with a vertical geophone in a 3-component package.
- Land, Marsh and 3-component cases are available.

### **Some uses for the 4.5 Hz Low Frequency Geophone**

- Vibration monitoring
- Monitoring Machinery Performance
- Environmental Surveys
- Machinery Balancing
- Security and Surveillance

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### 4.5 Hz Low Frequency Geophone (B-coil) Specifications

<b>Natural Frequency</b>	
Frequency (%)	4.5 Hz
Tolerance	± 0.5 Hz
Maximum tilt angle for specified (f/n)	0°
Typical spurious frequency	140 Hz
<b>Distortion</b>	
Distortion with 0.7 ips p.p. coil-to case velocity	< 0.3%
Distortion measurement frequency	12 Hz
Maximum tilt angle for distortion specification	0°
<b>Damping</b>	
Open-circuit damping	60
Open-circuit damping tolerance	±10%
<b>Resistance</b>	
Standard coil resistance	375 Ω
Tolerance	±5%
<b>Sensitivity</b>	
Open-circuit Sensitivity	28.8 V/m/s (0.73 V/m/s)
Tolerance	±7%
RtBcfn	5.841 ΩHz
Moving mass	11.3 g (0.39 oz)
Maximum coil excursion p.p.	4 mm (0.16 inc)
<b>Physical</b>	
Diameter	25.4 mm (1 inch)
Height	36 mm (1.42 inch)
Weight	80 g (2.81 oz)
Operating temperature range	-40°C to 70°C (-40°F to 158°F)
<b>Limited warranty period*</b>	1 year

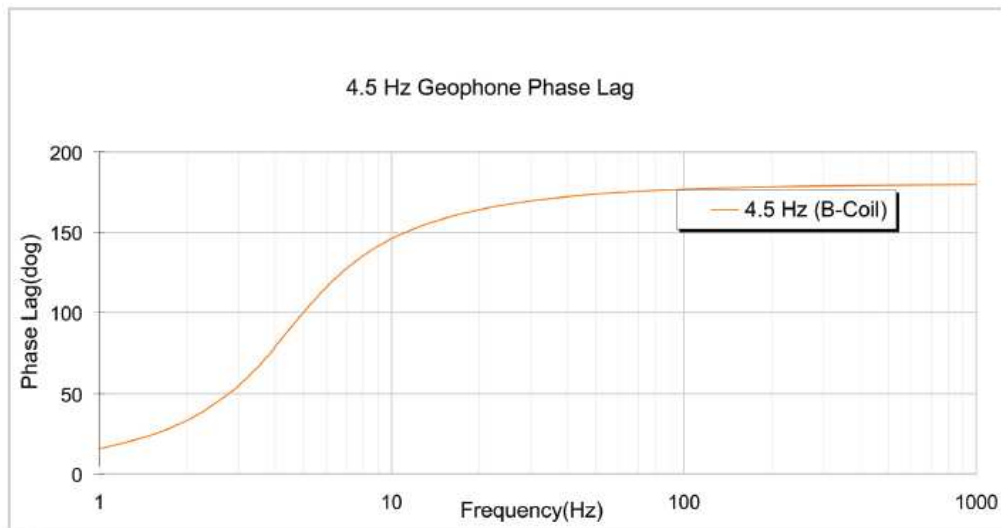
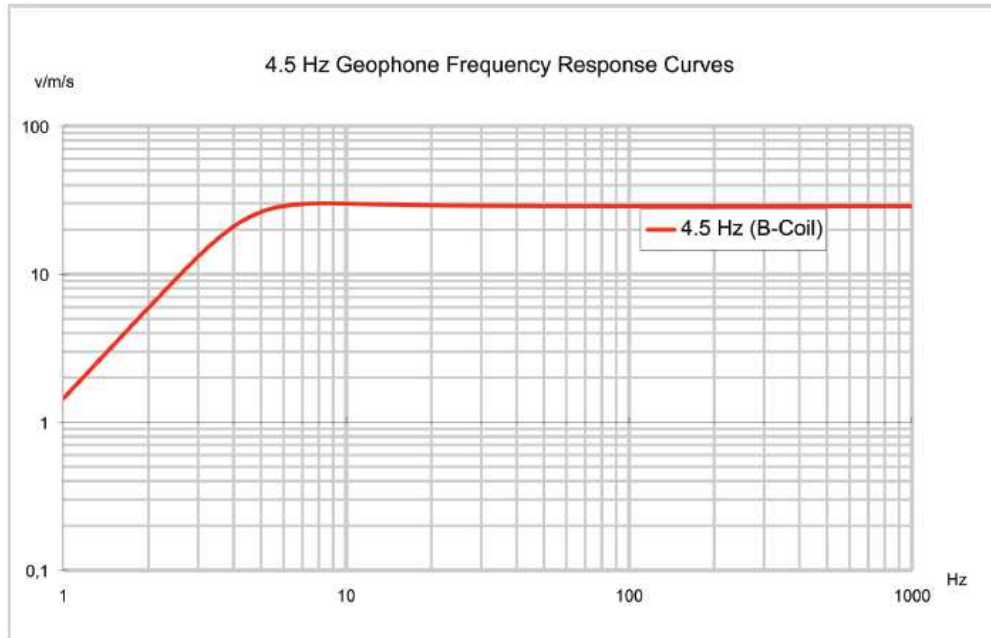
\*Warranty excludes damage caused by high-voltage and physical damage to the element case

All parameters are specified at +20°C in the vertical position unless otherwise stated

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