



Preseis® 2518 and 2520 Shallow Water Hydrophones

Preseis 2518 and 2520

- Frequency response matches output of 10 Hz 70% damped geophones for easier combination and comparison in dual sensor surveys
- Stable parameters over a wide range of depths, temperatures and signal amplitudes
- Low impedance output signals scaled to be comparable in amplitude to geophone signals for maximum k-gain compatibility and minimum system crosstalk problems
- Sensitivity changes of less than 1 dB from 0 to 200 meters depth
- No minimum depth requirement for proper operation
- Hermetically sealed housings for proven field reliability with all wires strain relieved and water-blocked for maximum protection

2518 only

- Low power, rugged integrated circuit amplifier design offers more than 5 years battery-powered operation

The Preseis 2518 and 2520 hydrophones are designed for use in bottom cable acquisition, transition zone surveys, swamps, marshes, rivers and boreholes.

Advanced technology used in the Preseis hydrophones provides both increased depth capability and minimum sensitivity change with depth.

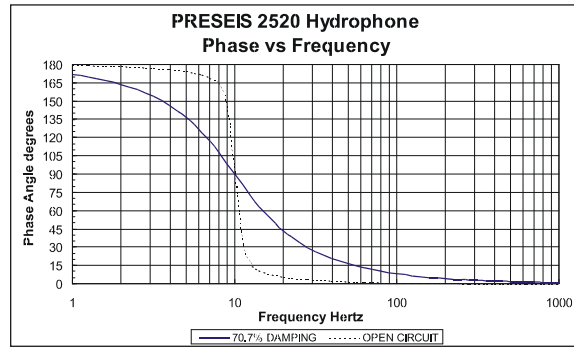
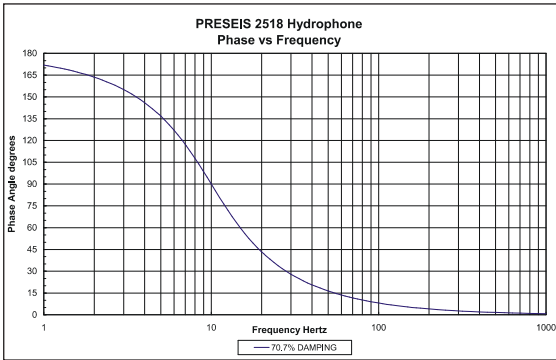
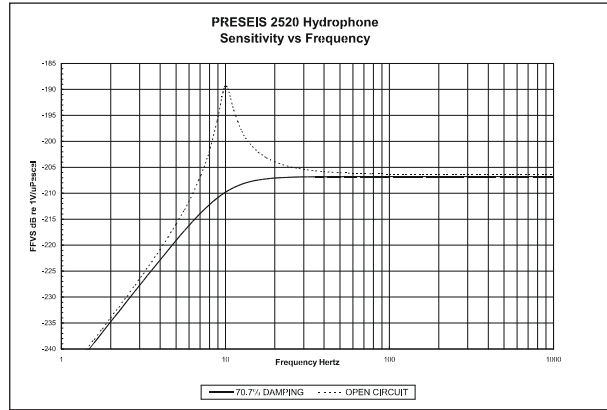
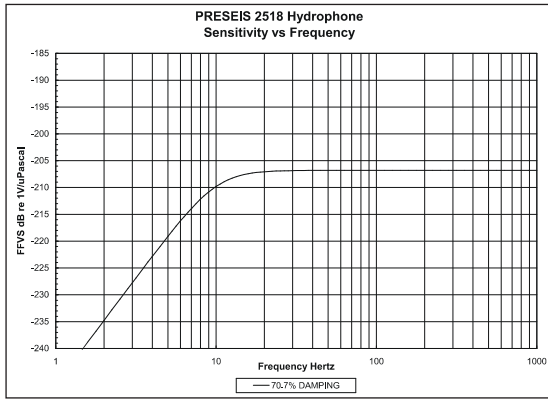
The 2520 model uses a transformer coupled output making it a passive sensor whereas the 2518 contains an integrated circuit amplifier giving superior linearity and lower distortion levels not possible with transformer coupled units.



Specifications

INPUT/OUTPUT, INC.

	2518	2520
Physical Characteristics		
Length	208.7 mm (8.2 in) with protective cover, without lead and connector	208.7 mm (8.2 in) with protective cover, without lead and connector
Diameter	61.7 mm (2.4 in)	61.7 mm (2.4 in)
Weight	380 g (13.4 oz) without lead connector	426 g (15.0 oz) without lead connector
Displacement	221.7 mL (13.5 cu in) without lead and connector	221.7 mL (13.5 cu in) without lead and connector
Temperature		
Operating	From 0°C to 50°C (32°F to 122°F)	From 0°C to 50°C (32°F to 122°F)
Storage	From -10°C to 55°C (14°F to 131°F)	From -10°C to 55°C (14°F to 131°F)
Leads	Two 16 AWG stranded conductors, polypropylene insulation, polyurethane cable jacket	Two 16 AWG stranded conductors, polypropylene insulation, polyurethane cable jacket
Polarity	A positive (increase in) acoustic pressure generates a positive voltage on the yellow conductor	A positive (increase in) acoustic pressure generates a positive voltage on the yellow conductor
Impedance	444 Ω (balanced)	1730 Ω nominal at 100 Hz
DC resistance	Not specified	350 Ω ± 5% at 20°C
Sensitivity	-206.8 ± 1.5 dB re 1 V/μPa (4.58 μV/μbar)	-206.8 ± 1.5 dB re 1 V/μPa (4.58 μV/μbar)
Change vs. frequency	Less than 3.0 dB from 10 Hz to 1,000 Hz	Less than 3.0 dB from 10 Hz to 1,000 Hz
Change vs. depth	Less than 1dB from 0.3 m to 200 m (1 ft to 656 ft)	Less than 1dB from 0.3 m to 200 m (1 ft to 656 ft)
Change vs. temperature	Less than 1.5 dB from 0°C to 50°C (32°F to 122°F)	Less than 1.5 dB from 0°C to 50°C (32°F to 122°F)
Natural frequency	10 Hz ± 10%	10 Hz ± 15% at 5 mv rms output
Distortion	Less than 0.03% at 0.5 millibar rms	Not specified
Mechanical resonance, lowest frequency	Greater than 2.0 kHz	Greater than 2.0 kHz
Depth		
Maximum operating	200 m (656 ft)	200 m (656 ft)
Maximum survival	275 m (902 ft)	275 m (902 ft)



Ordering Information

Contact I/O Sales for ordering information

United States – Stafford, TX
 Input/Output, Inc.
 Fax 281.879.3500
 Phone 281.933.3339

England
 I/O Marine Systems Limited
 Fax 44.1483.277655
 Phone 44.1483.277644

Web Site
www.i-o.com