

OBX-125



- Continuous cable-free 4C autonomous recording
- Battery module: 125 days operation
- Built-in full resolution test generator
- Solid-state flash memory: 32 GB per channel
- CSAC clock

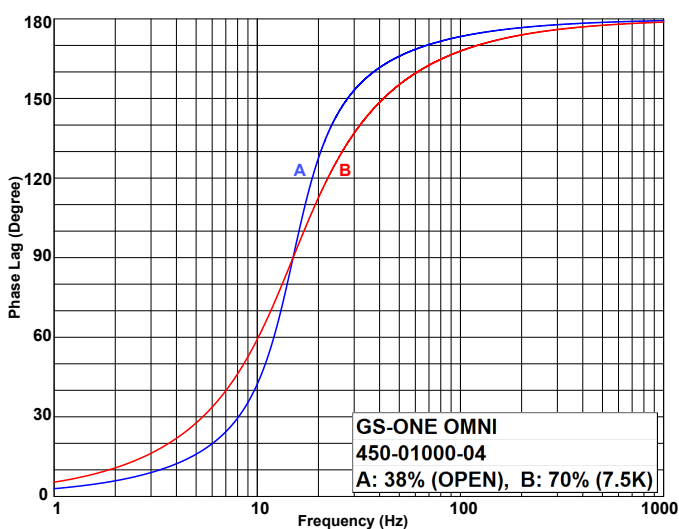
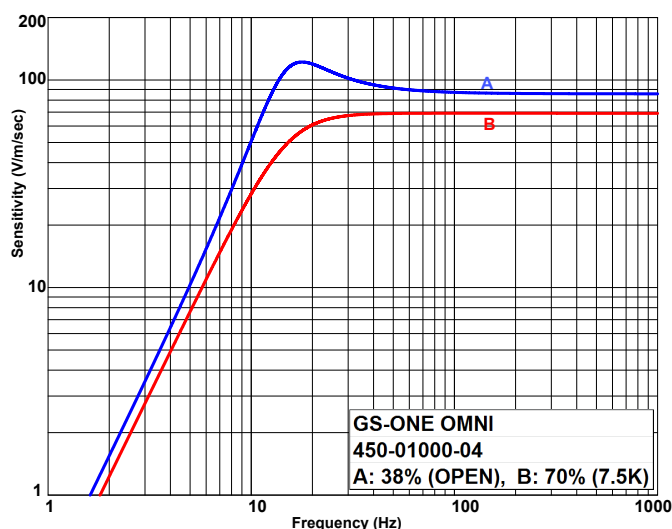
PHYSICAL SPECIFICATIONS

Moving Mass	13.2 g	0.466 oz
Maximum coil excursion p-p	4.06 mm	0.16 in.
Minimum coil excursion p-p	1.02 mm	0.04 in.
Diameter	30.5 mm	1.2 in.
Height	40.7 mm	1.6 in.
Weight	130 g	4.60 oz
Operating and Storage Temperature Range	-40°C to +100°C	-40°F to +212°F

ELECTRICAL SPECIFICATIONS

All parameters are specified with 7.5 k Ω load at 25°C in all tilt positions unless otherwise stated.

Frequency	15 Hz
Spurious Frequency	>160 Hz
Distortion at Horizontal	0.05% Typical
Coil Resistance	1450 Ω
Open-Circuit Sensitivity	69.2 V/m/s (1.75 V/i/s)
Sensitivity at 70% Damping	69.2 V/m/s (1.75 V/i/s)
Open-Circuit Damping	70%
Distortion at all tilt angles	<0.2% measured at 15 Hz with 0.2 in/s p-p



HYDROPHONE Deepender™ 5000-X

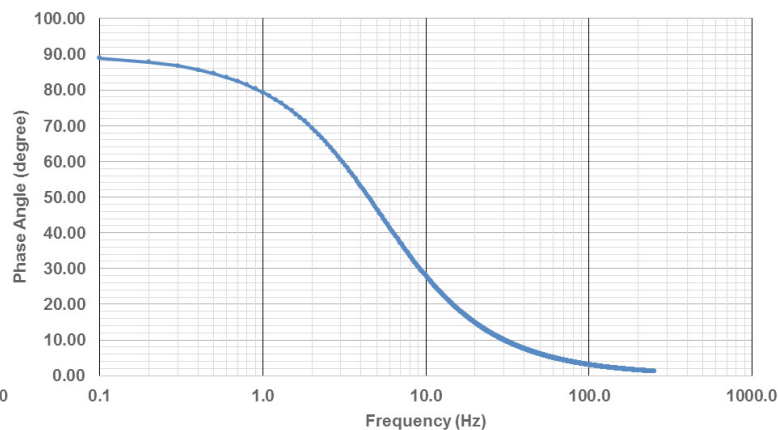
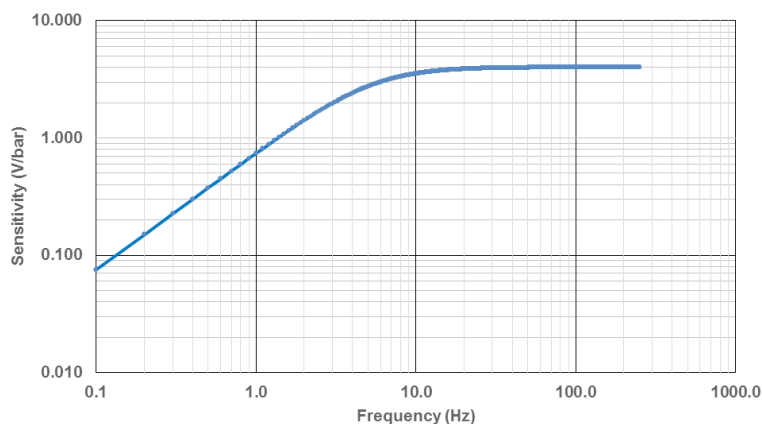
PHYSICAL SPECIFICATIONS

Maximum Operating Pressure	34.5 MPa (5,000 psi)
Maximum Working Depth	3450 m (11,319 ft.)
Operating Temperature Range ¹	-10 to +75°C (+14 to 167°F)
Outside Diameter	50.8 mm (2.0 in.)
Length	38.1 mm (1.5 in.)

ELECTRICAL SPECIFICATIONS

Nominal Capacitance (at 25°C 1atm)	20.0 nanofarads
Voltage Sensitivity ²	4.0 $\mu\text{V}/\mu\text{Bar}$
Sensitivity (dBv ref 1 μPa @ 25°C)	-181.9 dB re 1nC/ μPa
Frequency Response (into 2 M Ω load)	3 –15,000 Hz

1. Safe to be used slightly below 0°C as long as water is not frozen. Do not let hydrophone be frozen in ice, as this will cause irreversible damage to the crystals.
2. Voltage Sensitivity is specified when connected to OBX.



OBX-125

MECHANICAL SPECIFICATIONS (HOUSING)	Metric	US
Length	475 mm	18.7 in.
Width	208 mm	8.2 in.
Height	106 mm	4.25 in.
Weight in Air	18.2 kg	40.2 lbs.
Weight in Seawater	10 kg	22.1 lbs.
Maximum Operating Pressure	34.5 MPa/345 Bar	5,000 psi
Maximum Operating Depth	3,450 M	11,316 ft.
Operating Temperature Range	-5°C to +35°C	+23°F to +95°F
Storage Temperature Range	-10°C to +40°C	+14°F to +104°F

ELECTRICAL SPECIFICATIONS	
Digitized 4C Recording Station: 4 Channel, 24 Bit A/D Digitizer 3C Orthogonal oriented GS-One OMNI 15 Hz Geophones 1 DEEPENDER Hydrophone	
Digitization	24-bit Delta-Sigma
Sample Interval	0.25, 0.5, 1, 2, 4 ms
Pre-amplifier Gains	0, 6, 12, 18, 24, 30, 36 dB
Maximum Input Signal	1.8Vrms
Equivalent Input noise (@2ms sample interval)	0.17 μ Vrms
Gain Accuracy	Better than 1%
Anti-alias Filter	83% Nyquist
Instantaneous Dynamic Range	124dB @ 2 ms sample interval
THD	<0.2%
Distance Between Digitizer & Farthest Sensor	<18 cm
Distance Between All Sensors	<13 cm
Flash Memory	32 GB per channel
Frequency Response	1 Hz – 1650 Hz @ ¼ ms sample interval
Battery Module	125 days operation

Specifications subject to change at sole discretion of Geospace Technologies.



7007 Pinemont Drive • Houston, Texas 77040 USA

www.geospace.com

Tel: 713-986-4444 • Fax: 713-986-4445



Geospace Technologies, Canada
2735 - 37th Avenue N.E.
Calgary, Alberta,
T1Y 5R8 Canada
403 250-9600

Geospace Technologies, China
Room 700, 7th Floor
Lido Office Tower, Lido Place
Jichang Road, Jiang Tai Road
Beijing, 100004, P.R.China
011 (86) 10 6437 8768

Geospace Technologies
Sucursal Sudamericana
Carrera 127-22 G 28 Int. 30
Agrupación Industrial La Esperanza
Bogotá, Colombia
011-57-1-742-7414

Geospace Technologies, Eurasia
Kirovogradskaya, 36
Ufa, Baskortostan
Russia 450001
011 (7) 3472 25 39 73

Geospace UK
F3 Bramingham Business Park,
Enterprise Way, Luton
Bedfordshire LU3 4BU, England
011 44 (0) 7775 688 467