

PABLO

- Acoustic Iridium® profiling float
- Bi-directional communication
- Acoustic profiles to 1,000m
- Real-time data



DEFENCE & SECURITY

The PABLO Iridium® profiling acoustic float was designed and tested to measure environmental acoustic ambient noise in order to detect the presence of marine mammals and to assess the impact of noise pollution. In addition, it can be used to detect subsurface assets and for military applications.

PABLO gathers acoustic profiles for the purpose of analyzing sound propagation in the top 1,000m of the ocean. Configured to collect data on a daily basis, PABLO has a long mission life, operating for close to a year while performing 300 profiles called acoustic window cycles.



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TECHNICAL SPECIFICATIONS

PHYSICAL

- Height (with Iridium/GPS antenna): 57 in (145 cm)
- Diameter: 6.50in (16.50 cm)
- Weight: 48 lbs (22 kg)

CONSTRUCTION

- Hull Material: Type II anodised aluminum casing

OPERATION

- Operating Temperature: -2°C to 35°C (28° F to 95° F)
- Operating Life: ~300 profiles or up to ~1 year of operation
- Mission Length: Multiple missions/day (up to max. of 5)
- Pressure at Parking Depth: 40 bar to 100 bar (~400 to 1000m depth)
- Depth Maintenance Accuracy: 25m ±2.5 bar (adjustable)
- Power Supply: 30D Lithium Cells (IATA Certified)

STORAGE CONDITIONS

- Temperature: -20°C to 50°C (-4°F to 122°F)
- Time Before Use: ≤ up to 5 years

USER INTERFACE

- Function: Mission programming; float checking; etc.
- Terminal: PC
- Link: Bluetooth graphical user interface to PC
- Deployment: Magnet removal launches float

TELEMETRY

- Iridium Communication: Iridium 9602 SBD Transceiver

SENSORY

- Temperature Range: -5°C to 45°C (28°F to 95°F)
Accuracy: ±.002°C
Resolution: .001°C
- Pressure Range: 0 dBar to 250 dBar
Accuracy: ±.1 dBar
Resolution: .01 dBar
Resolution: 1Hz-150KHz

ACOUSTIC DATA

- 1/3 Octave (10- 8000Hz)
- Sensitivity 30-165 dB re 1uPa

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