



## NEW DEEP MOBY PROFILING FLOAT 6000 meters

The DEEP MOBY profiling float designed by OSEAN is an ultra-deep, low-cost, long-lived, platform that mobilizes passively drifting autonomous hydrophones for MERMAID seismology program and CTD for deep Argo program mission.

## APPLICATIONS

- Deep ARGO program mission
- MERMAID Seismology Monitoring
- · Expanded versatility for other applications

### FEATURES

- Autonomy up to 5 years
- Autonomous profile to 6000m (19,685 ft)
- · Landing and Park on the sea floor capability
- Iridium/RUDICS Communication and GNSS localization
- One-year continuous recording MERMAID data buffer
- Designed based on a modular structure to facilitate integrating additional sensors
- Rugged Lightweight Housing
- Launch and recovery hook for easy deployment and recovery
- Limited surface time to avoid collisions

Specifications subject to change without notice

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# TECHNICAL SPECIFICATIONS

#### MECHANICAL CHARACTERISTICS

HullGlass sphere 17"Overall Length131 cm with removable IRIDIUM/GPS AntennaOverall shell diameter55 cmAvailable volume change5.3%Weight in Air:60kgDepth rating:6000 meters – 19,685 ft

0 - 600 bar

0.2% FS

#### TELEMETRY

Communication Localization User software interface Iridium/RUDICS GNSS WAAS/EGNOS compatible DIAGNOSTIC via Bluetooth (PC / MAC)

PRESSURE SENSOR Range: Accuracy:

DEEP ARGO CTD

Sensors Features SBE61 CTD or RBR*argo*<sup>3</sup> CTD Continuous profile on ascent Sampling every hour on drift (pressure, temperature, salinity)

#### ACOUSTIC MERMAID

Sensor: Bandwidth Sound pressure level Resolution Sample rate Data Buffer Hydrophone 0.1 Hz to 12 Hz 180 dB ref 1µPa (Full scale) 24 bits 40 SPS 1 year of continuous recording

#### OPERATION

Lifetime perspective

Landing capability Power supply Operating temperature Shipping Up to 250 deep ARGO cycle (6000 meters-10 days) Up to 150 deep ARGO & MERMAID cycle (10 days) Able to park on the sea-floor on request Lithium (Multimodal & IATA Certified) / Alkaline -2°C to 35°C Wood shipping crates (international)