

POPS

- Polar Ocean Profiling System
- Bi-directional communication
- Innovative and robust design



METOCEAN SYSTEMS

The Polar Ocean Profiling Systems (POPS) is a rugged ice platform, which provides meteorological and oceanographic data via Iridium®. The system consists of six major elements—System Controller, Compact Flash Data Logger, Meteorological Sensors, Data Telemetry and Global Positioning System and a Subsurface CTD Vertical Profiling System.



The hull is constructed of aluminum with an lonomer foam collar for floatation. The tubular hull is intended to be placed into a hole drilled in the ice, which provides excellent stability. The design is compact and light to allow for simple deployment.

POPS

TECHNICAL SPECIFICATIONS

PHYSICAL

- Hull Diameter: 8.625" (220 mm)
- Floatation Collar: 24" (610 mm) x 7.25" (180 mm)
- Height: 78.7" (200 cm)
- Mass (in air): 34 kg (75 lbs)

CONSTRUCTION

- Surface Unit: Aluminum
- Collar: Extruded ionomer foam
- Mast: Aluminum

SENSORS

- Barometric Pressure: Vaisala PTB100
- Air Temperature: YSI 44032
- Sea Surface Temperature: YSI 44032
- Profiler: NOVA with inductive link

ELECTRONICS

- Controller: MetOcean Global Platform Transceiver (GPT II)
GPS: Navman Jupiter 32
Iridium: 9522B Transceiver (RUDICS)

POWER SUPPLY

Surface Unit

- Battery: 2x Tadiran TLP-93181/D/OCN2 Packs
Chemistry: Lithium thionyl chloride

Profiler

- Battery: 30x LSH20 Cells (SAFT)
Chemistry: Lithium thionyl chloride

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