

POPS

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



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 ionomer 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.

metOcean™
telematics

iridium®

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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: Provor CTS-3 and inductive link

ELECTRONICS

- Iridium telemetry: Iridium SBD 9522A LBT modem
- GPS: Conexant Jupiter Model TU 35-D410-031
- PTT: METOCEAN Model MAT 906

POWER SUPPLY

- Battery: 75 D-cell (SAFT LS 33600)
- Chemistry: Lithium thionyl chloride



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