

Ice Beacon

- Modular polar platform
- Bi-directional communication
- Innovative and robust design
- Instrumentation packages available



METOCEAN SYSTEMS

The METOCEAN Tubular Ice Beacon samples meteorological as well as oceanographic data and transmits the results via Iridium® satellite telemetry. Bidirectional communication is available.

The meteorological data includes Air Temperature (AT), Sea Surface Temperature (SST), Barometric Pressure (BP) and GPS. The optional oceanographic data may include Conductivity, water Temperature, Depth (T, TD, CT/CTD) and Dissolved Oxygen (ODO).

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 very compact and light to allow for simple deployment



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Ice Beacon

TECHNICAL SPECIFICATIONS

PHYSICAL

Hull Diameter	8.625" (22 cm)
Floatation Collar	28" (71cm) x 18" (45cm)
Height	78" (1.95m)
Mass (in air)	41kg (91 lb)

CONSTRUCTION

Hull	Aluminum
Collar	Extruded ionomer foam
Mast	Aluminum

SENSORS - METEOROLOGICAL

Air Temperature	YSI 44032
Sea Surface Temperature	YSI 44032
Battery Voltage	Precision resistive divider
GPS Receiver	NAVMAN Jupiter 32 xLP
Barometric Pressure	Vaisala PTB100
SENSORS -- Oceanographic (Optional)	

SBE 37-IM CT/CTD
SBE 37-IMP-ODO (CT/CTD)
SBE 39plus-IM (Optional Depth)

ELECTRONICS

Controller	Global Platform Transceiver (GPT II™)
Iridium Telemetry	9602N Modem (SBD)

POWER SUPPLY

Lithium Pack	TADIRAN TLP 93181/D/OCN2 Lithium thionyl chloride (optional second pack available)
Alkaline	96 D Cells

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