Snow Beacon

- Beacon for polar applications
- Cutting edge technology
- Suited for extreme climates
- Cost effective solution

METOCEAN SYSTEMS

The Snow Beacon is an Iridium® equipped, data collection and processing Beacon for Polar applications. The Snow Beacon's primary function is to measure snow depth at remote sites where high reliability, low power consumption, and dependable operation is critical.

In addition to the Ultra Sonic Snow Height sensors, the Snow Beacon is equipped with a standard met sensor suite; including GPS, Barometric Pressure, Air Temperature and Sea Surface Temperature sensors. The Snow Beacon will provide 12 to 18 months of continuous unattended operation in extreme Polar climates.

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TECHNICAL SPECIFICATIONS

PHYSICAL
- Mast Height: 1.75 m (68.9 in)
- Electrical Housing: 0.75 m (29.5 in) x 0.22 m (8.66 in)
- Overall Height: 2.25 m (88.58 in)
- Mass (in air): 30 kg (66 lbs)

CONSTRUCTION
- Hull, Mast, Sonar Supports: 6061-T6 aluminum

POWER
- Battery: Tadiran Lithium battery pack (TLP-93181/D/OCN2)

SENSORS
- Barometric Pressure: Vaisala PTB110
- Ice Surface Temp Sensor: YSI 44032
- Sea Surface Temp Sensor: YSI 44032
- Snow Height Sensor: MB7052 sonar range finder

ELECTRONICS
- Iridium: 9602 SBD Modem
- GPS: Jupiter 32xLP

OPERATION
- Air Temperature: -40°C to +40°C (-40°F to +104°F)
- Sea Surface Temperature: -40°C to +40°C (-40°F to +104°F)
- Relative Humidity: 0 to 100% marine environment
- Barometric Pressure: 800 to 1060 (h Pa)
- Operating Life: 12 to 18 months continuous operation
- Transmission Interval: Hourly sensor data, 3 hour interval for GPS position

STORAGE
- Storage Temperature: -20°C to +55°C (-4°F to 131°F)
- Storage Life: Up to 24 Months

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