

# Snow Buoy

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



The Snow Buoy is an Iridium® equipped, data collection and processing Buoy for Polar applications. The Snow Buoy'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 Buoy is equipped with a standard met sensor suite; including GPS, Barometric Pressure, Air Temperature and Sea Surface Temperature sensors. The Snow Buoy will provide 12 to 18 months of continuous unattended operation in extreme Polar climates.



# Snow Buoy

## 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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