



CALIB

CALIB – Compact Air-Launch Ice Beacon

- Argos reporting mini buoy, low-cost, easily transportable, and air-deployable
- Alkaline batteries are used for short-term deployment (3 months or less)
- Lithium batteries are used in buoys which will be deployed for many months and in buoys with barometers
- The buoy's outer housing, a phenolic tube, is RF-transparent and has excellent, low-temperature structural characteristics



CALIB

Polar

Buoy Dimensions:	Hull Diameter: 120 mm (5.0 inches) Total Height: 917 mm (36.1 inches) Weight In Air: 8.2 kg (18 pounds)
Buoy Construction:	Hull: Phenolic tube Colour: White
Launch Speed:	0 to 200 knots Indicated Air Speed (IAS) MAXIMUM
Launch Altitude:	500 to 8000 feet
Operation:	Air Temperature: -50° C to +55° C Sunlight: Direct Exposure Operating Life: Alkaline batteries: 3 months (at temperatures >-30° C) Lithium Batteries: 12 months (at temperatures >-40° C) Battery Pack Size: 20 D-cells Storage Life: 2-year minimum with alkaline battery 5-year minimum with lithium battery
Duty Cycle:	Continuous, with a 90-second repetition rate and 7 sample block average is developed, and then repeated every 20 minutes
Survival:	Air Temperature: -60° C to +55° C
Electronics:	Argos PTT: METOCEAN Model MAT 906
Sensors:	Ice Surface Temperature: YSI Model 44006 Encased Thermistor Battery Voltage: Precision resistive divider Barometric Pressure: Vaisala PMB-100 Pressure Sensor



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