

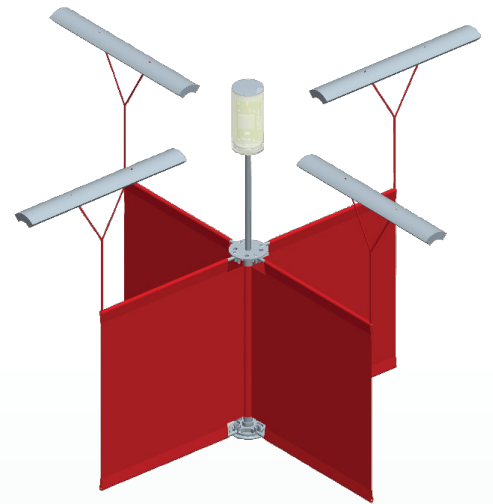
# iSLDMB

- Iridium® Self Locating Datum Marker Buoy
- NATO A-Size compliant
- Air or ship deployable
- Real-time data



The Iridium® SLDMB (iSLDMB) is an innovative rugged compact A-size Self Locating Datum Marker Buoy. The iSLDMB was designed and tested to meet the stringent performance requirements of coast guards for Search and Rescue (SAR) operations in the open ocean. The iSLDMB design is based on the proven CODE/Davis style oceanographic surface drifters.

The inexpensive expendable drifter is equipped with an Iridium® bi-directional satellite transmitter, sea surface temperature sensor, and a GPS receiver. Due to the urgency of SAR situations, the iSLDMB is able to communicate critical data within real-time to the end-user. Robustly designed, the iSLDMB is air certified and can be deployed with ease from ships, fixed wing and rotary wing aircraft. The drifter's operating life is up to 15 days depending on the required data transmission rate.



## Quick Specifications

Size	NATO A-Size
Survival Temperature	-2°C to 35°C
Operating Life	Up to 15 days
Shelf Life	36 months

# iSLDMB

## TECHNICAL SPECIFICATIONS

### OPERATION CONDITIONS

- Air Temperature: -20°C to 35°C (-4°F to 95°F)
- Water Temperature: -2°C to 35°C (-28°F to 95°F)
- Water Type: Fresh or Salt
- Significant Wave Height: 8 m (26 ft)
- Wind Speed: 20 m/s (40 knots)
- Wind Gusts: 30 m/s (60 knots)
- External Humidity: 100%
- Sunlight: Direct Exposure
- Operating Life at 10°C: Up to 15 days
- Shelf Life: 36 months with storage conditions at ~21°C

### SURVIVAL CONDITIONS

- Air Temperature: -30°C to 35°C (-22°F to 95°F)
- Water Temperature: -2°C to 35°C (-28°F to 95°F)
- Significant Wave Height: 12 m (40 ft)
- Wind Speed: 35 m/s (68 knots)

### ELECTRONICS

- Controller: GPT II
- Iridium Transceiver: 9602 SBD
- Antenna: Low profile dual band Iridium / GPS
- Power Supply: 10 alkaline-manganese dioxide AA cells

### SENSORS

- Sea Surface Temperature: US sensor  $\pm 0.05^\circ\text{C}$  thermistor
- Battery Voltage: Precision resistive divider
- GPS Receiver: Navman Jupiter 32

### DEPLOYMENT

- Deployment Options: Vessel, rotary wing aircraft, or fixed wing aircraft

### AIR DEPLOYMENT PARAMETERS

- Rotary Wing Aircraft:
  - Hover: 50 – 10,000 ft
  - 70 to 90 KIAS: 100 – 10,000 ft
- Fixed Wing Aircraft:
  - 120 to 220 KIAS: 200 – 10,000 ft

### OPERATING PARAMETERS

- Rapid SAR Mode:
  - The first 24 hours after deployment data sampled and transmitted every 10 minutes
- Standard SAR Mode:
  - The next 48 hours after deployment data sampled and transmitted every 30 minutes
- Scientific Mode:
  - Active until end of battery life

### CERTIFICATIONS

- Form factor, ballistic coefficient, center of gravity (COG) and mass match NATO A-Size parameters of pre-existing certified sonobuoys.

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