

# iSLDMB



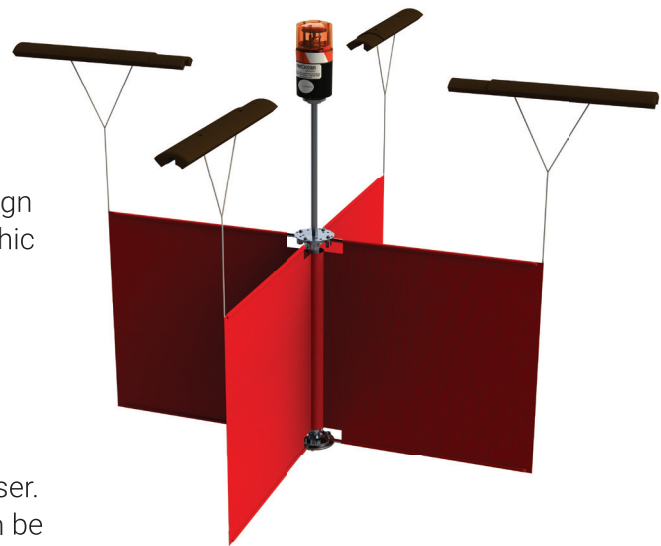
2023-12 v2

## Trusted By Coast Guards Around The World

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 in 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.

- Reliable and innovative design
- Iridium® telemetry
- Bi-directional communication
- NATO A-size compliant
- Air or ship deployable
- Real-time data
- Iridium® certified



**Connected. Everywhere.**

# iSLDMB TECHNICAL SPECIFICATIONS

2023-12 v2

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	3 m	9 ft
Wind Speed	10 m/s	22 knots
Wind Gusts	13 m/s	25 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	4 m	13 ft
Wind Speed	14 m/s	27 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 ±.05 °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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