

SVP Iridium Drifter

- Low Cost Telemetry Solution
- Optional Sensors Available
- Ship or Air Deployable



METOCEAN SYSTEMS

The SVP Iridium® drifter is an innovative addition to the spherical drifter family. The SVP Iridium® drifter has been designed and thoroughly tested to track ocean current and provide environmental data at a designated depth beneath the ocean surface.

The SVP Iridium® drifter is truly unique. The buoy utilizes the dependable bi-directional Iridium® satellite system to communicate and to transmit essential scientific data. Iridium® telemetry is the most cost effective means of transmitting data for environmental applications. The SVP Iridium® drifter is also remarkably versatile.

Additional sensor options are available, which included: air pressure (BP), salinity (CT) and GPS positioning.



Quick Specifications

Size (diameter)	15.50 inches (39.5 cm)
Mass	40 lbs. (18.1 kg)
Operating Life	Up to 18 months
Drogue Type	Holey sock

metOcean
telematics

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SVP Iridium Drifter

TECHNICAL SPECIFICATIONS

BUOY DIMENSIONS

- Surface Unit Diameter: 15.50 inches (39.5 cm)
- Mass (in air): 40 lbs. (18.1 kg)

BUOY CONSTRUCTION

- Surface Unit: Injection molded high impact ABS
- Tether: Plastic coated stainless steel cable
- Drogue: No rip nylon

DROGUE

- Length: 210 inches (5.3m)
- Diameter: 24.00 inches (60 cm)
- Style: Holey sock

TETHER

- Length (to center of drogue): 590.5 inches (15m)

OPERATION

- Air temperature: -20C to 50C (-4F to 122F)
- Water temperature: -2C to +45C (28F to 113F)
- Relative humidity: 0 to 100% marine environment
- Barometric pressure (optional): 800 to 1060 mbar
- Sea state: SS5
- Operating life: Up to 18 months*
- Storage life: Up to 24 months
- Storage temperature: -20C to +55C (-4F to 131F)
- Time reference: UTC and Julian hour

STORAGE

- Storage temperature: -20C to +55C (-4F to 131F)
- Storage life: Up to 24 months

SURVIVAL

- Temperature: -40C to +70C (-40F to 158F)
- Sea state: SS6
- Deployment free fall height: 33 ft (10m) into water

ELECTRONICS

- MetOcean's Global Platform Transceiver Controller TM
- Navman Jupiter 32 Global Positioning System module
- Iridium 9602N Short Burst Data transceiver
- Strain gauge drogue presence system

DATA COLLECTION

- As per the Drifting Buoy Cooperative Panel DBCP-2 format (standard)
- Can be customized depending upon customer requirement (optional)

DATA TRANSMISSION

- Bidirectional communication ability allows the end user to select on demand Iridium transmission interval to suit operational requirement.
- Transmissions can be set up at predetermined schedule intervals and/or poll the unit for immediate results. Data latency is less than 60 seconds from start of transmission

* Operational life is dependent upon sensor suite, transmission interval and storage conditions.



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