

SVP

IRIDIUM DRIFTER

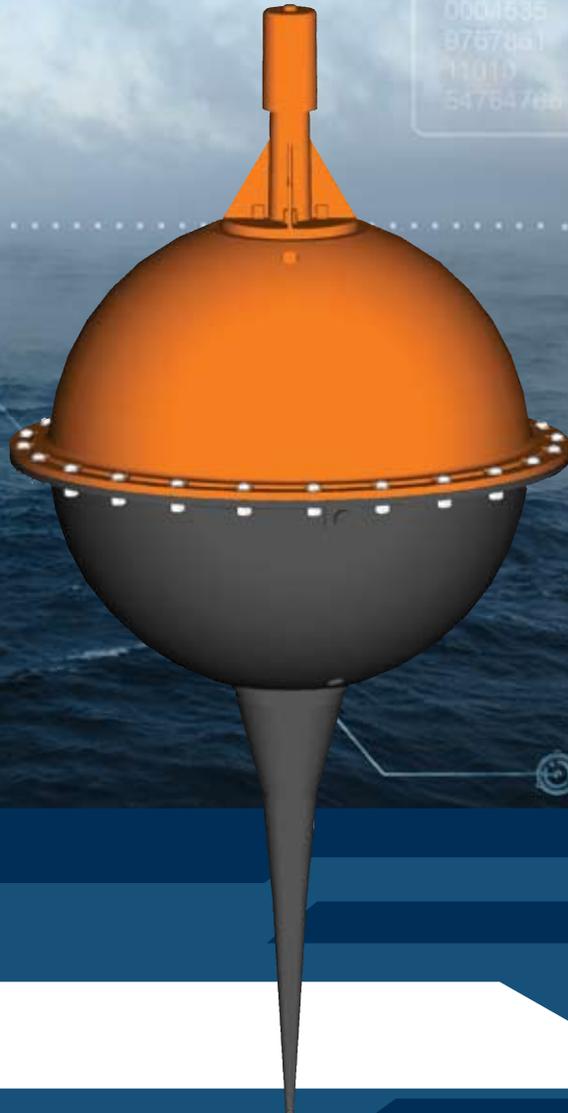
Low Cost Telemetry Solution

Optional Sensors Available

Ship or Air Deployable



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The METOCEAN 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 METOCEAN SVP-Iridium drifter is also remarkably versatile. Additional sensor options are available, which included: air pressure (BP), salinity (CT), GPS positioning, wind speed and wind speed direction (WSD).

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SVP IRIDIUM

SURFACE VELOCITY PROGRAM 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)
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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 9601 Short Burst Data transceiver
Strain gauge drogue presence system

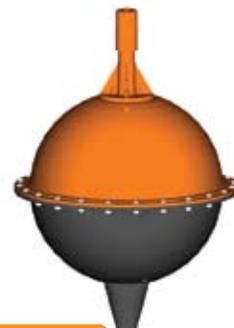
Data Collection

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.



SVP-BP-Iridium



SVP Iridium with Drogue



Data collection and communication experts

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