

Air Deployable Polar iSVP

- Bi-directional spherical marker buoy
- Real-time data via Iridium® satellite
- Multiple sensor options
- Rugged design



METOCEAN SYSTEMS

The Air Deployable Polar iSVP is a buoyant, ruggedized, expendable, bi-directional mini weather station and marker buoy. The buoy is ideal for remote and harsh environments.

It was developed to meet the demanding needs of the offshore oil industry, ocean freight industry, and the meteorological and oceanographic scientific communities. Designed to survive multi-year ice, its standard configuration is equipped with barometric pressure (BP), sea surface temperature (SST), and air temperature (AT) sensors.



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Air Deployable Polar iSVP

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	ABS
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OPERATION

Surface Temperature	-40°C to +40°C
Relative Humidity	0 to 100% marine environment
Barometric Pressure	800 to 1060 mBars
Operating Life	Up to 18 months with lithium battery, up to 6-8 months with alkaline battery
Storage Life	Up to 24 months
Time Reference	UTC
Storage Temperature	-20°C to +35°C

SURVIVAL

Minimum Deployment Altitude	305 m (1,000 ft)
Min/Max Air Speed	80 - 150 knots IAS
Terminal Velocity	4.5m/s

ELECTRONICS

MetOcean's Global Platform Transceiver Controller™
Navman Jupiter 32 Global Positioning System module
Iridium® 9601 Short Burst Data transceiver

DATA COLLECTION

Recommended Iridium® SBD data formats for buoys

DATA TRANSMISSION

- All meteorological sensors and SBD are acquired and transmitted every hour.
- GPS is updated every three hours.

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