



Air Deployable Polar iSVP: Rugged Mini Weather Station for Extreme Conditions

The Air Deployable Polar iSVP is a compact, rugged buoy designed for extreme environments. Serving as both a mini weather station and marker buoy, it withstands harsh conditions like multi-year ice and delivers real-time data through Iridium-based bidirectional communication. Equipped with sensors for barometric pressure, sea surface temperature, and air temperature, it provides crucial environmental data in remote locations.

Developed for the offshore oil, ocean freight, and scientific communities, the Polar iSVP offers flexibility with its air deployment capability, reducing mission costs and enabling rapid deployment in hard-to-reach areas. As part of the Surface Velocity Program (SVP), it also tracks ocean currents 15 meters below the surface, making it ideal for industrial and research applications.



- **Built for extreme environments**
- **Survives multi-year ice**
- **Sensors for BP, SST, and AT**
- **Air deployable**
- **Real-time data via Iridium®**
- **Rugged, durable design**
- **Iridium-certified telemetry**



Empowering Data Connectivity, Everywhere.

AIR DEPLOYABLE POLAR iSVP TECHNICAL SPECIFICATIONS

2024-09 v1

PHYSICAL		
Surface Unit Diameter	39.5 cm	15.5 in
Mass (in air)	18.1 kg	40 lbs
Construction Material	ABS	
OPERATION		
Surface Temperature	-40 °C to 40 °C	-40 °F to 104 °F
Relative Humidity	0 to 100% marine environment	
Barometric Pressure	800 to 1060 mbars	0.79 to 1.05 atm
Operating Life	Up to 24 months with lithium battery, up to 6-8 months with alkaline battery	
Storage Life	Up to 24 months	
Storage Temperature	18.1 kg	40 lbs
Time Reference	UTC	
SURVIVAL		
Minimum Deployment Altitude	305 m	1,000 ft
Min/Max Air Speed	80 - 150 knots IAS	
Terminal Velocity	4.5 m/s	14.8 ft/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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