

PAWS

POLAR AREA WEATHER STATION

Bi-directional Communication

Innovative and Robust Design

Various Sensor Options



The METOCEAN Polar Area Weather Station (PAWS) is a compact, rugged and easy to use polar platform which provides quality controlled data in harsh weather conditions. The PAWS was designed for unattended operations at remote sites requiring high reliability, low power consumption, and dependable operational performance.

The PAWS surface unit mast is equipped with an Iridium satellite antenna, GPS, air temperature sensor, barometer port and an optional humidity sensor. The sea surface temperature sensor is internal to the unit hull assembly. The PAWS is also outfitted with a wind speed mast assembly consisting of a RM Young anemometer and PNI TCM2.5 compass. The PAWS has been designed to transmit weather related data on a 3-hour interval over the Iridium satellite network for a period of 1 year.

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Technical Specifications

Buoy Dimensions

Hull Diameter:	8.625"
Collar:	24.00"
Total Height:	88" from surface, 115" Total
Weight in Air:	140 lbs

Buoy Construction

Surface Unit:	Aluminum
Collar:	Extruded Ionomer Foam
Mast:	Aluminum

Sensors

Barometric Pressure:	Vaisala PTB110
Air Temperature:	YSI 44032
Sea Surface Temperature:	YSI 44032
Wind Speed Mast:	RM Young anemometer (#05103AP-10) and PNI TCM2 compass
Humidity Sensor (Optional):	HMP45D

Electronics

Iridium telemetry:	Iridium 9601
GPS:	Jupiter 21 and antenna

Power Supply

Battery:	Tadiran TLP 93181/D/OCN2
Chemistry:	Lithium Thionyl Chloride

Operation

Air temperature:	-35°C to +40°C
Sea Surface Temperature:	-35°C to +40°C
Relative humidity:	0 to 100% marine environment
Barometric pressure:	800 – 1060 (h Pa)
Operating life:	12 months*
Time reference:	UTC and Julian hour
Transmission Interval:	Sensor data every 3 hours GPS every 3 hours

Storage

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

Survival

Temperature	-40°C to +70°C (-40F to 158F)
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