PAWS

- Polar Area Weather Station
- Bi-directional communication
- Innovative and robust design
- Various sensor options

METOCEAN SYSTEMS

The 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. 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.

PAWS

TECHNICAL SPECIFICATIONS

PHYSICAL

Hull Diameter	8.625" (219 mm)
Floatation Collar	24" (610 mm)
Height	88" from surface
Mass (in air)	63.50 kg (140 lbs)

CONSTRUCTION

Surface Unit	Aluminum
Collar	Extruded ionomer foam
Mast	Aluminum

SENSORS

Barometric Pressure	Vaisala PTB100
Air Temperature	YSI 44032
Sea Surface Temperature	YSI 44032
Wind Speed Mast	RM Young anemometer (#05103AP-10)
	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

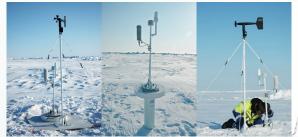|	
Air Temperature	-35° C to +40° C (-31° F to 104° F)
Sea Surface Temperature	-35° C to +40° C (-31° F to 104° F)
Relative Humidity	0 to 100% marine environment
Barometric Pressure	800 – 1060 (h Pa)
Operating Life	12 months*
Time Reference	UTC and Julian hour
Transmission Interval	Sensor data every 3 hours
	GPS every 3 hours

STORAGE

Storage Temperature	-20° C to +55° C (-4° F to 131° F)
Storage Life	Up to 24 months

OPERATION

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

Buoy Deployment   Test Fire   System Controller Display   Buoy Recovery