

ARGOSPHERE

OIL SPILL AND CURRENT TRACKING BUOY

Ship or Air Deployable

Low Cost Solution

Robust Design



The ARGOSPHERE is an expendable, low cost spherical drifting buoy. The ARGOSPHERE was developed to meet the needs of the offshore industry, ocean freight industry and the oceanographic scientific community. The ARGOSPHERE was designed specifically to track and monitor oil spills.

The robust design of the ARGOSPHERE allows the buoy to be deployed effortlessly from a vessel, an aircraft, and an oil platform. The standard operating life of the buoy is approximately 60 days. The ARGOSPHERE was designed for easy internal access, allowing the user to replace the alkaline battery packs when needed.

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Buoy Dimension

Diameter surface unit	28cm (11 inches)
Weight	10 kg (18 pounds)

Buoy Construction

Surface unit	Fiberglass
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Operation

Air temperature	-20° C to +50° C
Water temperature	-2° C to +45° C
Wind	0 to 50 knots
Wave height	0 to 30 feet
Battery operating life	2 months minimum (dependant on GPS reporting interval)

Survival

Air temperature	-40° C to +70° C
Water temperature	-10° C to +70° C
Wind	0 to 100 knots
Wave height	0 to 50 feet
Free fall drop	3 meters into water

Sensors

Sea surface temperature	Alpha Model 14A1002-C3 encased thermistor
Battery voltage	Precision resistive divider

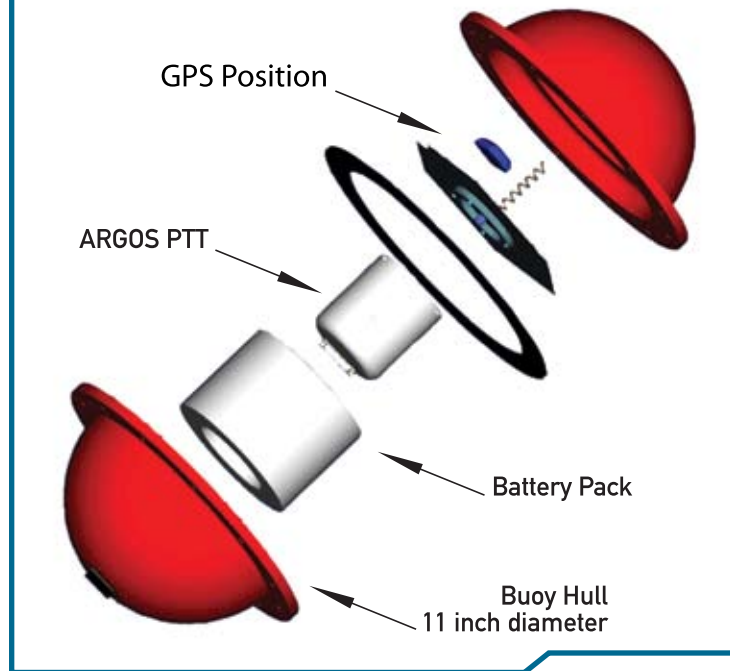
Duty cycle options

Selected prior to shipment	Continuous 90 second repetition for life of buoy or for a fixed period (30 days, 60 days etc.), reset when magnet is placed on customer specified buoy
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Electronics

METOCEAN Tiros/Argos Satellite Platform Terminal Transmitter (PTT) Model MAT906.
GPS receiver: NAVMAN Jupiter Model TU35-D410-031

BUOY SCHEMATIC



Data collection and communication experts

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