1.9m Fulmar Metocean Buoy

Features

OSIL's Fulmar Data Buoy is a versatile instrumentation platform ideally suited for collection and measurement of oceanographic, meteorological (Metocean) and water quality data parameters, and is completely adaptable to any applications' needs.

The system is supplied with a range of sensors that can be specified by the customer. All buoys are fitted with solar panels, navigation/warning lights and other markings as necessary. A range of telemetry options are available (UHF/VHF, GSM, GPRS, Satellite), selected to suit both the location and application requirements. OSIL provides a complete data telemetry solution, including either desktop or web-based software packages to access the data.

Instrumentation can be deployed anywhere from near surface to the seabed. The buoys can be moored in a fixed position with either single point, dual point or compliant mooring (where required).

Specifications

All buoys are fitted with four 70W solar panels, battery back up, navigation/warning lights (IALA Standard Lamp) and other markings as necessary (St Andrews cross, Internal Radar Reflector etc.).

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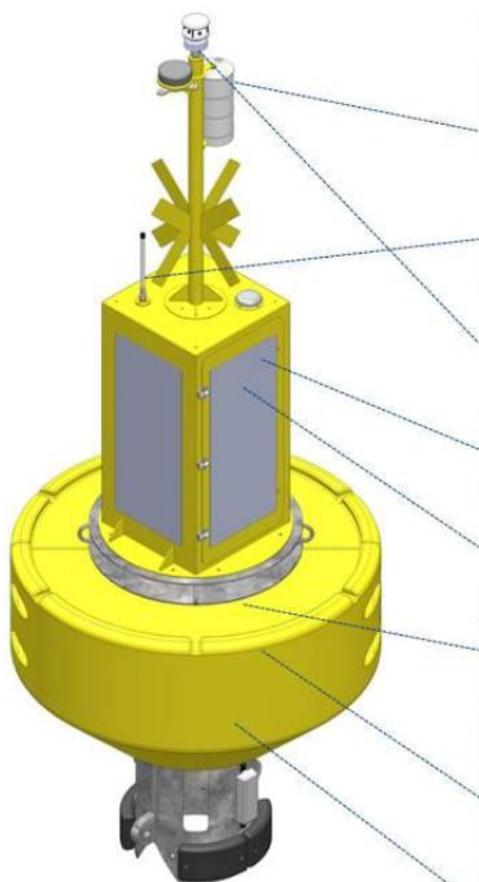
Hull Specifications
1.9m diameter, 3.1m focal plane, 960kg weight, ~1000kg reserve buoyancy (after payload), ballast weight 240kg

Aids To Navigation
Radar reflector, IALA standard lanterns, AIS transponder, On-station GPS trackers with watch circle alarms

Telemetry Options
GPRS/GSM, AIS, VHF/UHF radio, Iridium

Meteorological Measurements
Wind speed/direction, atmospheric pressure, air temperature & humidity, solar radiation, precipitation

Real-Time Data Delivery
OSIL data solutions, hosted services, direct to server & email

Oil Spill Detector
Non-contact optical hydrocarbon sensor for surface spills, submersible hydrocarbon sensor

Water Quality Sensors
Dissolved Oxygen, pH, Temperature, Conductivity, Salinity, Turbidity, Chlorophyll & Blue-Green Algae

Wave Measurements
Wave direction, height & period, external or internal compass

Current Speed & Direction
High resolution current speed, direction & turbulence data

Other sensors are available on request