The 3 Metre Met Ocean Buoy is the ideal data collection buoy for exposed coastal sites and open ocean.

**FEATURES & BENEFITS**

» Reliable operation in extreme weather or geographical locations

» Proven, industry accepted buoy design

» Survives extreme weather & wave conditions

» Deployable year-round in shallow or deep ocean

» Accepts virtually any sensor or telemetry

» Low operational costs

» Expected service life in excess of 20 years
3 METRE
Met Ocean Buoy

The aluminum 3 metre buoy is a very capable and rugged ocean data acquisition system that can be configured with a wide range of sensors for monitoring a variety of meteorological and oceanographic parameters. This platform's long term survivability and its substantial reserve capacity make it the ideal offshore metocean platform.

Primary batteries, solar panels and rechargeable batteries provide power to operate transmitters to both polar orbiting and geostationary satellites simultaneously. Other radio transmitters may also be used. Sufficient power is provided for a navigation light that meets international regulations - an important feature for permanent buoy stations.

The 3 metre has proven to be very reliable and cost-effective platform. The expected service life of the 3 metre platform is in excess of 20 years and properly maintained 3 metre buoys have never been retired due to corrosion.

Specifications

- **HULL CONSTRUCTION**
  Welded aluminum. Six watertight buoyancy compartments plus one watertight central compartment for electronics, batteries and sensors. Aluminum superstructure and steel substructure are bolted onto the hull.

- **FINISH**
  Marine grade epoxy

- **BALLAST**
  Chain; attached to the mooring yoke and mooring

- **WEIGHT**
  1500 kg

- **BUOY DIMENSIONS**
  3m diameter x 3.4m height

- **MOORING**
  Inverse catenary, chain, semi-taut, or false bottom

- **NAVIGATION AIDS**
  IALA standard lamp
  Radar reflector
  AIS transponder

- **ELECTRONICS**
  AXYS WatchMan500™ data acquisition and processing system

- **TYPICAL SENSORS**
  Wind speed, wind direction, air temperature/relative humidity, solar radiation, barometric pressure, wave height, direction and period, current speed and direction, GPS, compass, CTD, radiation and water quality sonde.

- **TELEMETRY OPTIONS**
  - UHF/VHF
  - INMARSAT IsatData Pro
  - IRIDIUM
  - GPRS/HSPA
  - CDMA/EVDO

- **POWER**
  Solar supplemented primary batteries
  Fully solar powered

- **POSITION CONFORMATION**
  GPS package indicates whether buoy is on-station
  WatchCicle Position Verification

Experience

With more than 30 years experience operating the world's largest operational buoy networks, Environment Canada and the USA's National Data Buoy Center have settled on the 3 metre aluminum discus buoy and the larger 6 metre NOMAD buoy as their primary buoy platforms.

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