

SOSI

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COASTAL WATER DATA BUOY

» Model CWDB-2M-5000




SOSI's Coastal Water Data Buoys are anchored systems designed for open water and coastal installation. CWDBs are usually deployed to serve national forecasting needs, maritime safety needs or to observe regional climate patterns. These buoys are configurable with a variety of meteorological and oceanographic sensors. Measurements from an open water buoy might include: wind and air surface variables, wave height and direction variables, sea surface temperature, water conductivity, salinity and density, trace metals and water quality, oil spill fluorescence, PAR, UV-B, underwater video, barometric pressure, GPS and other data which is transmitted in real-time and relayed to its deplorer by Iridium or ARGO telemetry.

Designed for rough sea conditions, the bodies of our CWDBs are fabricated of lightweight multi-density foam with a thick polyurethane skin. This coating can withstand sharp and repeated impacts without damage. An integral steel-frame construction adds strength to the hull and provides secure mounting points for the tower, bridle and subsurface instrument masts. The octagonal shape can include built-in recessions for subsurface instrument masts. The octagonal shapes of SOSI's buoys make them stable on their side (while on the deck of a ship or in transport), and possess sharp chines for good motion damping.

The CWDBs are constructed with an internal watertight well, designed to house a battery pack and optional charging system. It also serves as the base for a separate watertight electronics housing. The housing contains our SOSI Trident data logger, the brain of our buoy family. It is a flexible and tested piece of equipment, which controls the sensor and transmitter duty cycles, cycles the power, records the data and controls the telemetry transmissions from the buoy. The watertight housing also provides space for a variety of optional sensors and equipment. The housing is built with bulkhead connectors and a data port for easy removal, computer access and maintenance.

Thank you for reviewing our Coastal Water Data Buoys. Please contact our helpful technical staff if you require assistance with this product. Our team of skilled engineers, designers and trained technicians are ready to assist you with product modifications and solutions to meet your most demanding requirements.

Be it an existing product or a customized package—our mission is to offer innovative engineering, design and quality manufacturing for our diverse and growing global customer base. Take action and make waves with SOSI today! 

Specifications

Gross displacement.....2300 kg (5,060 lb.)
Hull diam.2.3 m (91")

Options

- Power Options
- Alkaline Battery Pack
- Lithium Battery Pack
- Telemetry: Iridium Satellite, Argos Satellite, GSM
- Sensors: Sea Surface Temperature, Sea Surface Conductivity, Sea Surface UV-B & PAR, In Air UV-B & PAR, Current Profiling, Wind Speed & Direction Sensors, Air Temperature & Pressure, GPS, Shallow & Deep Water Mooring Systems, Inductively Coupled Sensors
- Installation & Maintenance Support
- Data Management Services

• SOSI can design and fabricate moorings for your specific applications

*Specifications subject to change

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