

NexSens CB-500 Coastal Data Buoy

Overview

The NexSens CB-500 coastal data buoy is designed with cross-linked polyethylene foam and polyurea coated bottom hull and lid. The frame, instrument cage, mooring eyes and all hardware are constructed of corrosion resistant stainless steel.



Figure 1: CB-500 Coastal Data Buoy

What's Included

- (1) Buoy hull, 500lbs buoyancy
- (1) Buoy lid, hinged
- (3) 10W solar panels
- (3) SLA rechargeable batteries
- (3) Top-side lifting eyes
- (3) Bottom-side mooring eyes
- (1) Instrument cage
- (1) Ballast weight, 25lbs
- (1) Deep mooring eye

Assembly

The CB-500 ships partially assembled.

- Remove all components from the shipping container.
- Attach the instrument cage to the buoy frame using the supplied $\frac{3}{4}$ " bolt, lock-washer and nut. The bolt should be tight and secure with the lock-washer fully compressed.
- Remove the top white plate from the buoy to open the SDL logger port.
- With the bottom o-ring bumper removed from the SDL logger, lower the unit into location.
- Remount the top white plate.
- Remove both black tie-down lugs and hinge the tower backwards.
- Connect the solar panel cable (coming from the hinge lid) to the open port on one of the battery packs.
- Connect the battery packs to the SDL logger (typically port D) with the free cable.
- Connect sensors as needed following the instructions in the SDL manual.
- Close the lid and tighten the tie-down lugs.

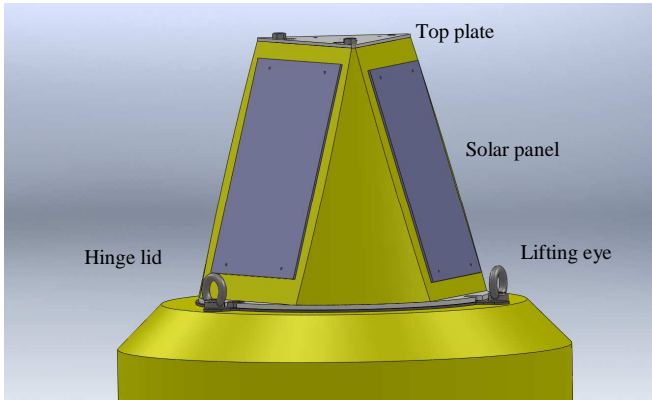
Sonde Deployment Tube

If the application requires a surface-deployed sonde, install the NexSens 914 Deployment Tube to one of the threaded couplers on the bottom of the buoy hull. Sonde access for maintenance is inside of the hinged lid.

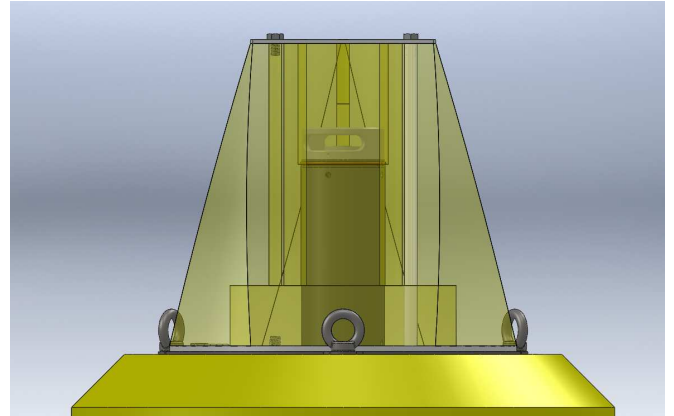
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System Components

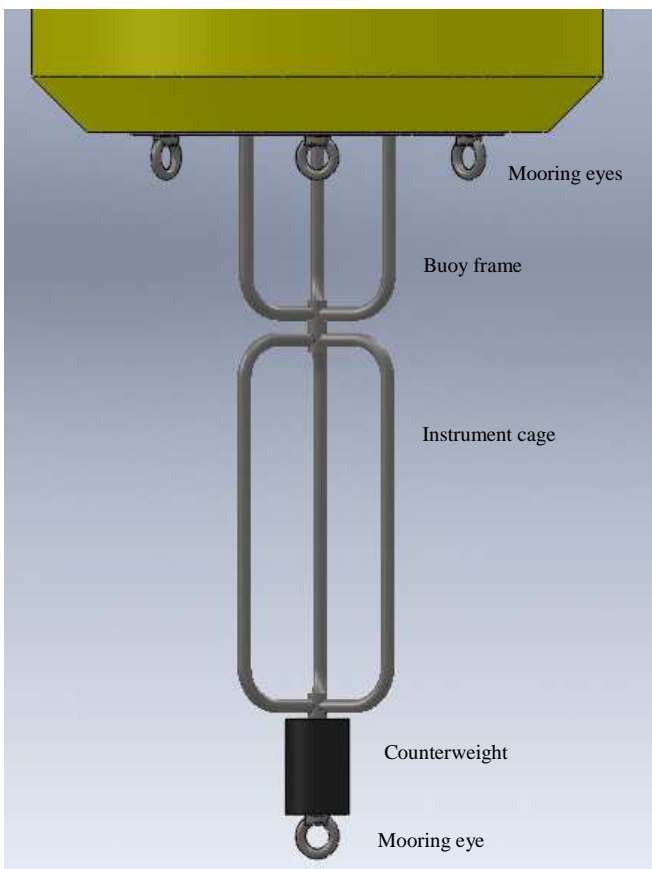
Buoy top



SDL data logger port



Instrument cage



Top view

