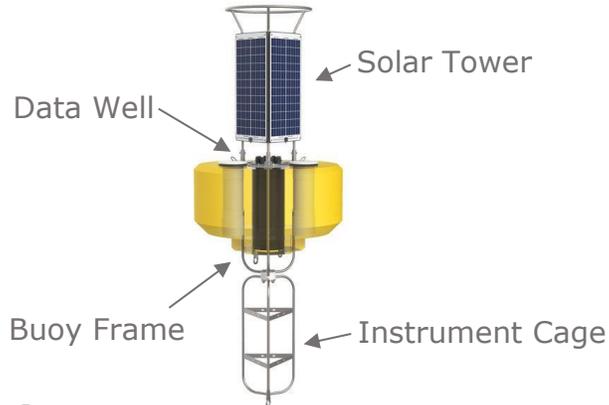# NexSens CB-1250 Data Buoy
Quick Start Guide

The NexSens CB-1250 Data Buoy is designed for deployment in lakes, rivers, coastal waters, harbors, estuaries and other freshwater or marine environments where environmental data collection is planned.

Solar Tower

Data Well
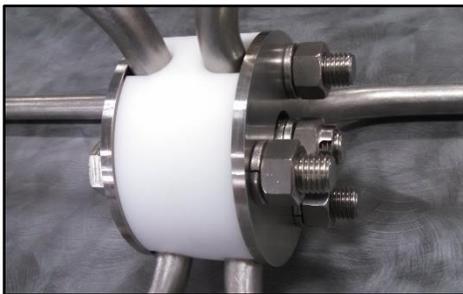
Buoy Frame

Instrument Cage

Cage Assembly

1 Place the cage security bracket onto the ends of the cage and frame.

2 Run the bolt with pinhole downward through the buoy frame. Place a lock washer and the castle nut onto the bolt. Use a pair of 1-1/8" or adjustable wrenches to tighten the castle nut.

3 Place the end plates over the center bolt and secure with the three remaining bolts, lock washers and nuts. Tighten each securely.
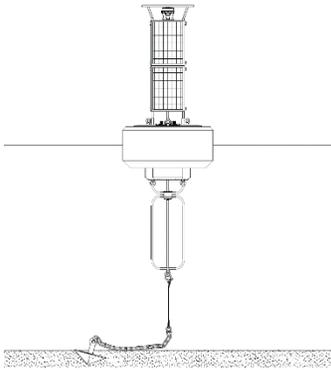

4 Run the cotter pin through the hole in the center bolt and bend the long leg around one of the ridges on the castle nut.

NEXSENS technology

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NexSens CB-1250 Data Buoy
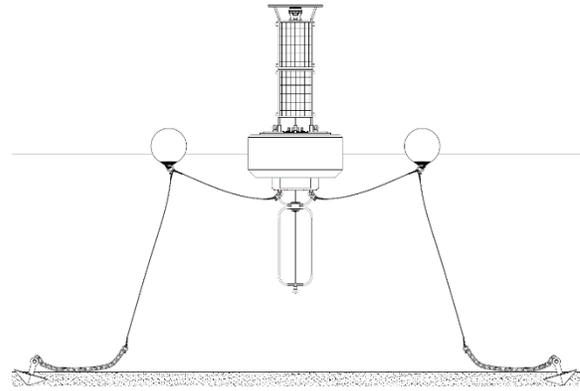# Quick Start Guide

Mooring Options

Single-Point Mooring

Used when sensors are attached to the instrument cage or housed in deployment pipes
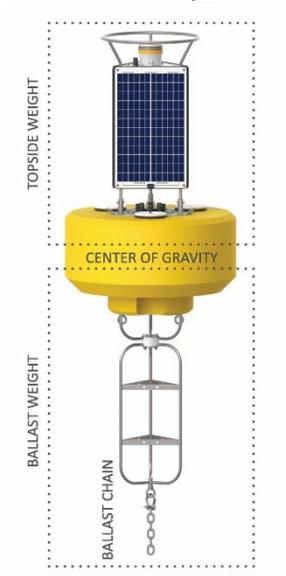
Two-Point Mooring

Used when monitoring sensors are deployed in the water column directly below the buoy

Ballast Weight & Stability

To prevent overturning and ensure stability, additional ballast weight may be needed.

As configured at the factory, the center of gravity of the buoy is near the water's surface. It is recommended to use at least 200 lbs. of galvanized chain for ballast; however, the exact weight is dependent upon the conditions at the deployment location.

Warning: Always follow safe marine and boating practices. Heavy anchors, ballast weights and chain require careful maneuvering. Small boats with limited lifting equipment and boat clutter can be unsafe. Care must be taken during deployment to maintain a clean and safe environment.

For additional information, please read the CB-1250 User Guide located on the NexSens Knowledge Base website.

https://www.nexsens.com/knowledge-base-v2/data-buoys/cb-1250/user-guide