

# CB-150

## DATA BUOY

- Self-powered data logging buoy
- Cellular, Iridium satellite, or radio telemetry
- Supports a variety of environmental sensors
- Accommodates most environmental data loggers
- Rugged polymer-coated foam hull



The NexSens **CB-150** Data Buoy is designed for deployment in lakes, rivers, coastal waters, harbors, estuaries and other freshwater or marine environments. The floating platform supports both topside and subsurface environmental monitoring sensors including weather stations, wave sensors, thermistor strings, multi-parameter sondes, Doppler current profilers and other monitoring instruments.

The buoy is constructed of an inner core of cross-linked polyethylene foam with a tough polyurea skin. A topside 13" tall stainless steel tower includes three 10-watt 12VDC semi-flexible solar panels, and a center 10" ID x 13.5" tall data well accommodates batteries, data loggers, sensors, and more. Three 2" passthrough holes with female NPT bottom threads allow for quick connection of instrument deployment pipes and custom sensor mounts. The stainless steel frame supports both single point and multi-point moorings.

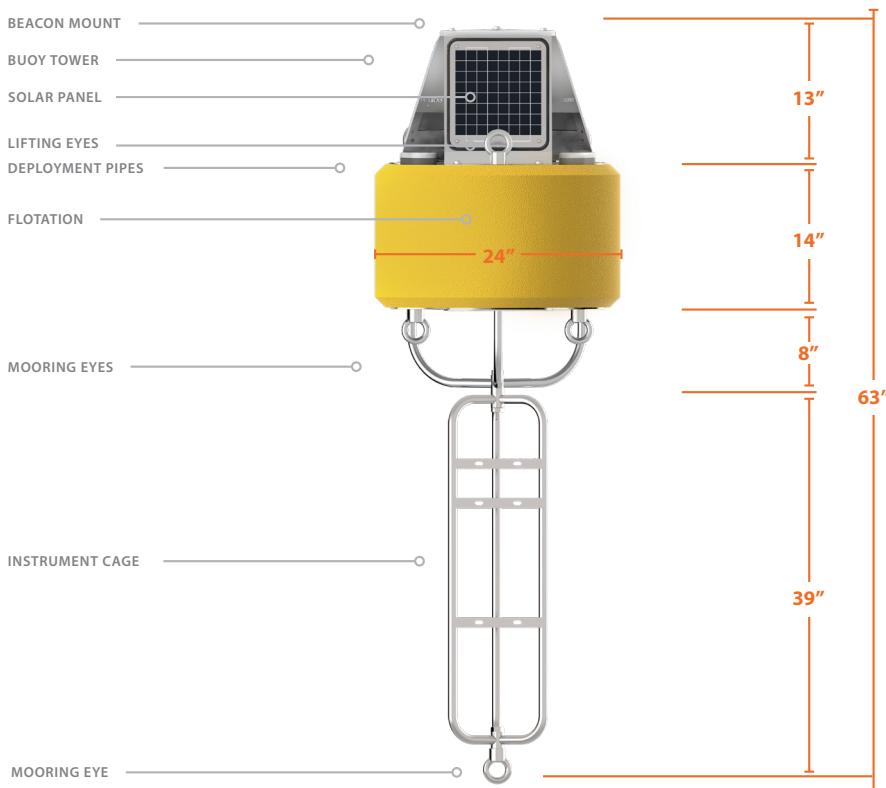
The **CB-150** Data Buoy is optimized for use with NexSens **X2-CB** data loggers. Wireless telemetry options include cellular, Iridium satellite, and spread spectrum radio. Compatible digital sensor interfaces include RS-232, RS-485 and SDI-12. Each sensor port offers a UW receptacle connector with double O-ring seal for a reliable waterproof connection. For custom integrations, an optional pass through data well lid includes a set of plugs and cable gland fittings.

# CB-150

DATA BUOY

## specifications

Hull Outer Diameter	24.0" (61.0cm)
Hull Height	14.0" (35.6cm)
Data Well Inner Diameter	10.3" (26.2cm)
Data Well Height	13.5" (34.2cm)
Pass-Through Hole Diameter	2.0" (5.1cm)
Tower Height	13.0" (33.0cm)
Solar Panels	3x 10-watts
Weight	100 lb (46kg)
Net Buoyancy	150 lb (68kg)
Hull Material	Cross-linked polyethylene foam with polyurea coating & stainless steel deck
Hardware Material	316 stainless steel
Mooring Attachments	3x 3/4" eyenuts



## parts list

Part #	Description
CB-150	Data buoy with polymer-coated foam hull & (3) 10w-watt solar panels, 150 lb. buoyancy
CB-A01-2	CB-Series buoy battery harness with integrated solar regulator & (2) 8.5 A-Hr batteries
CB-A05-1	CB-Series buoy battery harness with integrated solar regulator & (1) 28 A-Hr battery
CB-PTL	CB-Series buoy pass through data well lid for custom integrations, includes set of plugs & cable gland fittings
X2-CB	X2-CB buoy-mounted data logger
M550-F-Y	Solar marine light with flange mount & 1-3 nautical mile range, 15 flashes per minute, yellow

**NEXSENS**  
technology

tel: **937.426.2703**  
8am to 7pm EST, Monday-Friday

fax: **937.426.1125**

NexSens Technology, Inc.  
2091 Exchange Court  
Fairborn, OH 45324  
[info@nexsens.com](mailto:info@nexsens.com)

**nexsens.com**