

CB-150

DATA BUOY

- Self-powered data logging buoy
- Wi-Fi, radio, cellular or satellite 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 6-watt 12 VDC solar panels, and a center 10" ID x 13.5" tall data well accommodates batteries, data loggers, sensors, and more. Three 2" pass-through 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.

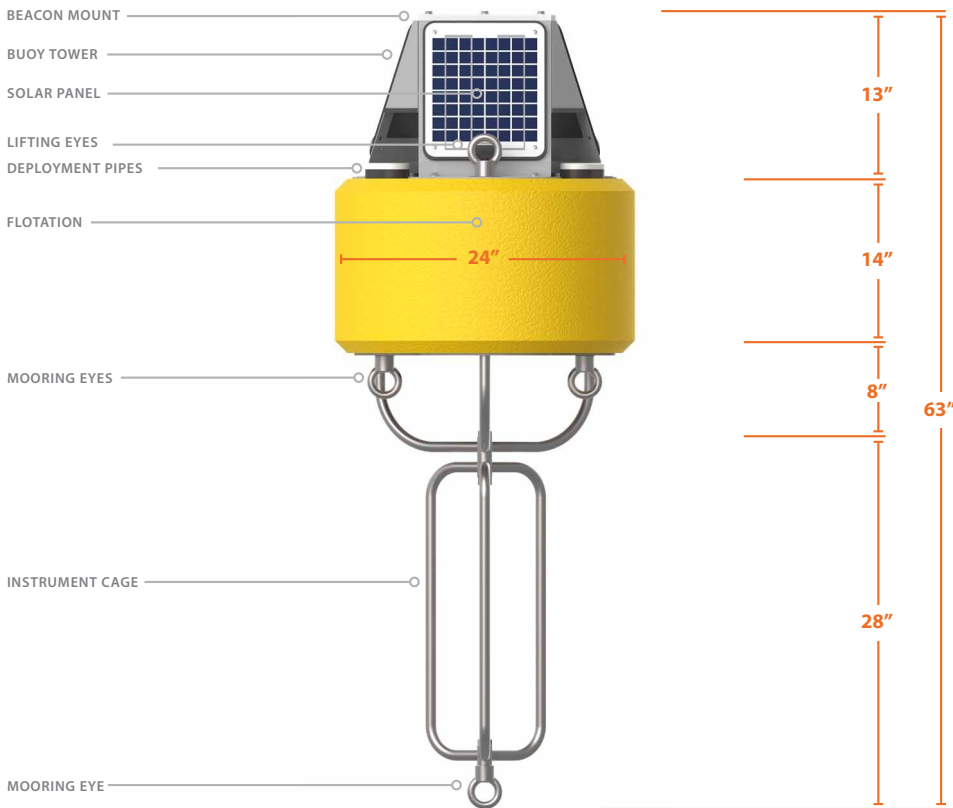
The **CB-150** Data Buoy is optimized for use with NexSens data loggers. Wireless telemetry options include Wi-Fi, spread spectrum radio, cellular and Iridium satellite. Compatible digital and analog sensor interfaces include RS-232, RS-485, SDI-12, VDC, mA, and pulse count. The top of the instrument well includes 8 pass-through ports for power and sensor interface. Each port offers a UW receptacle with double O-ring seal for a reliable waterproof connection.

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specifications

Hull Dimensions	24" (60.96 cm) outside diameter; 14" (35.56 cm) tall
Tower Dimensions	13" (33.02 cm) tall, triangular
Data Well Dimensions	10.3" (26.16 cm) inside diameter; 13.5" (34.29 cm) tall
Weight	95 lbs. (43.09 kg)
Buoyancy	150 lbs. (68.04 kg)
Hull Material	Cross-linked polyethylene foam with polyurea coating & stainless steel deck
Hardware Material	304 stainless steel
Mooring Attachments	1 or 2 point, 3/4" eye nut
Solar Power	(3) 6-watt 12 VDC solar panels



parts list

Part #	Description
CB-150	Data buoy with polymer-coated foam hull & (3) 6-watt solar panels, 150 lb. buoyancy
CB-A01-2	Battery harness with integrated solar regulator & (2) 8.5 A-Hr batteries
CB-A05-1	Battery harness with integrated solar regulator & (1) 28 A-Hr battery
iSIC-CB	iSIC data logger housed in CB-Series buoy lid enclosure
RTU-R-SS	Radio modem & antenna kit, 900 MHz
RTU-C	Cellular modem & antenna kit, multi-carrier
RTU-I	Satellite modem & antenna kit, Iridium
M550-P-Y	Solar marine light with pole mount & 1-3 nautical mile range, 15 flashes per minute, yellow
912M	Deployment pipe assembly with eye bolt & threaded male adapter, 2" schedule 80 PVC, 32" length
CB-WS-M	Lufft WS-Series weather sensor mount for CB-Series data buoys
CB-WX-M	Airmar WX-Series weather sensor mount for CB-Series data buoys



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

nexsens.com