

# CB-1450

## 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-1450** 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 50" tall stainless steel tower includes three 55-watt 12VDC solar panels, and a center 12" ID x 55" tall data well accommodates batteries, data loggers, sensors, and more. Three 4" 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.

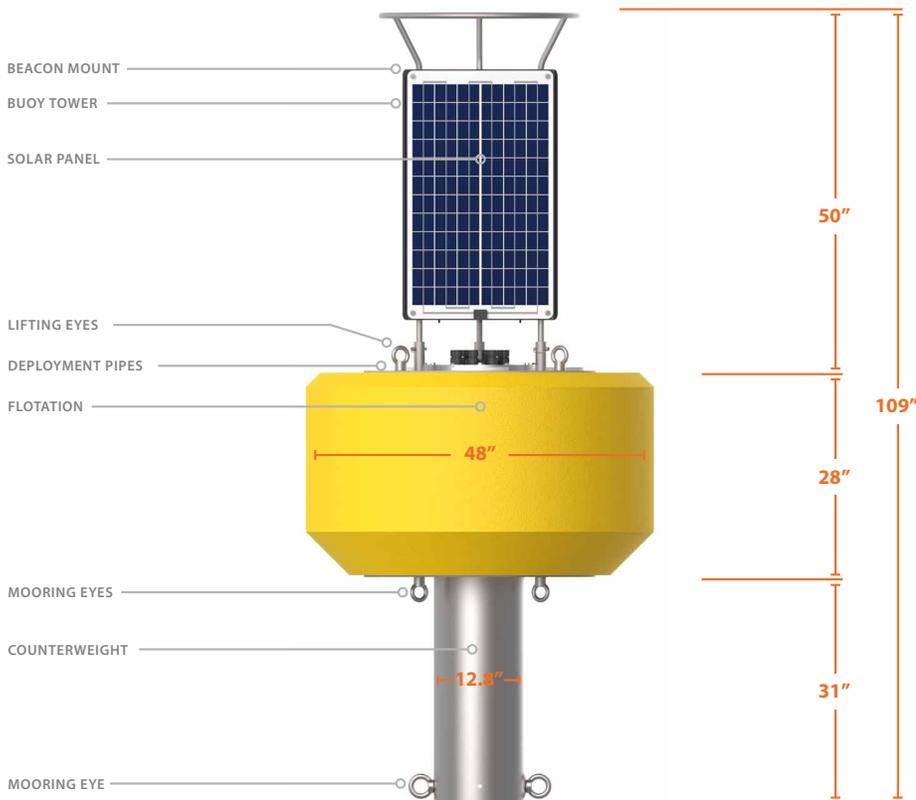
The **CB-1450** Data Buoy is optimized for use with NexSens data loggers. Wireless telemetry options include Wi-Fi, spread spectrum radio, cellular and Iridium satellite. Compatible digital and analog sensor interfaces include RS-232, RS-485, SDI-12, VDC, mA, and pulse count. The top of the instrument 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	48" (121.92 cm) outside diameter; 28" (71.12 cm) tall
Tower Dimensions	50" (127.00 cm) tall, 7/8 tubular
Data Well Dimensions	12.25" (31.12 cm) inside diameter; 55" (139.70 cm) tall
Weight	500 lbs. (226.80 kg)
Buoyancy	1450 lbs. (657.71 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" eyenut
Solar Power	(3) 55-watt 12 VDC solar panels



## parts list

Part #	Description
CB-1450	Data buoy with polymer-coated foam hull & (3) 55-watt solar panels, 1450 lb. buoyancy
CB-A09-3	Battery harness with integrated solar regulator & (3) 55 A-Hr batteries
CB-A09-4	Battery harness with integrated solar regulator & (4) 55 A-Hr batteries
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
M650H-Y	Solar marine light with 4 nautical mile range, 15 flashes per minute, yellow
914M	Deployment pipe assembly with stop bolt & threaded male adapter, 4" 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



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