

CB-450

DATA BUOY

- Self-powered data logging buoy
- 4G LTE cellular or Iridium satellite telemetry
- Supports a variety of environmental sensors
- Accommodates most environmental data loggers
- Rugged polymer-coated foam hull



The NexSens **CB-450** 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 20" tall stainless steel tower includes three 15-watt 12VDC semi-flexible solar panels, and a center 10" ID x 19.5" tall instrument 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.

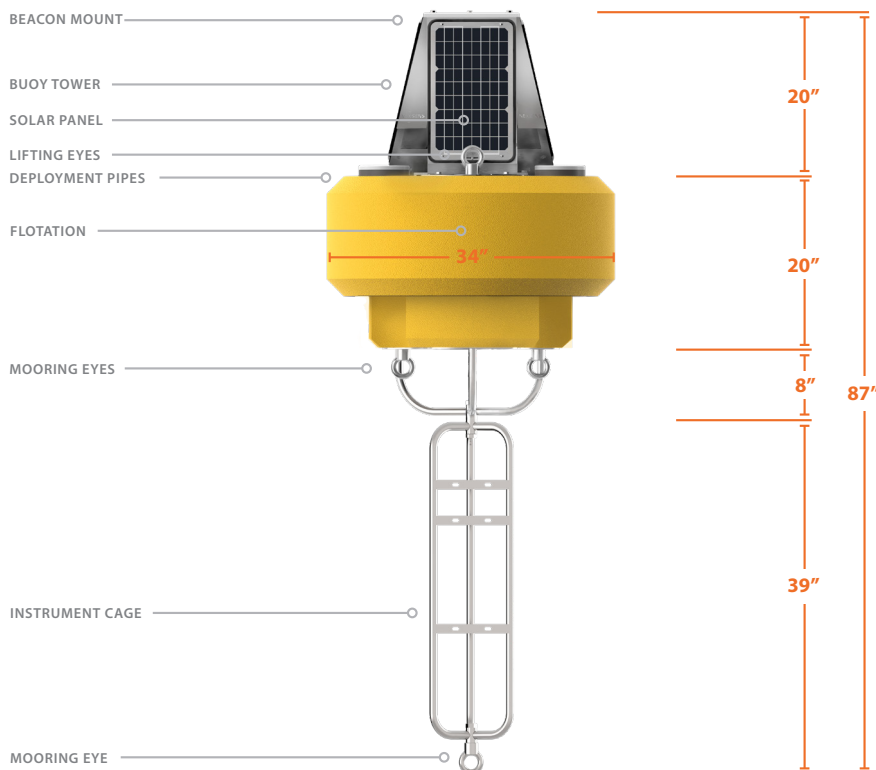
The **CB-450** Data Buoy is optimized for use with NexSens **X3** data loggers. Wireless telemetry options include global 4G LTE cellular, Iridium satellite, and global 4G LTE cellular with Iridium satellite fallback. Compatible digital sensor interfaces include RS-232, RS-485 and SDI-12. Each sensor port offers a UW receptacle connector with double O-ring seal for a reliable waterproof connection. For custom integrations, **CB-PTL** pass through and **CB-MCL** wet-mate data well lids are available.

CB-450

DATA BUOY

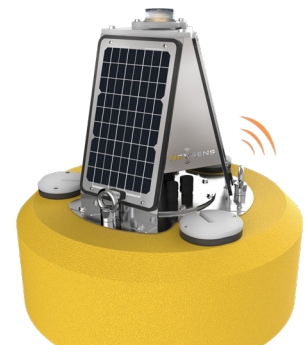
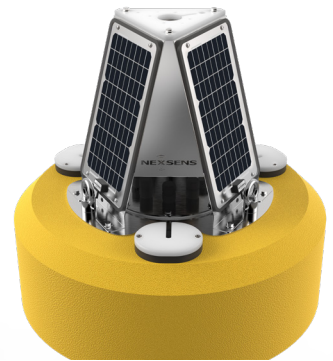
specifications

Hull Outer Diameter	34.0" (86.4cm)
Hull Height	20.0" (50.8cm)
Data Well Inner Diameter	10.3" (26.2cm)
Data Well Height	19.5" (49.5cm)
Pass-Through Hole Diameter	4.0" (10.2cm)
Tower Height	20.0" (50.80cm)
Solar Panels	3x 15-watts
Weight	124 lb (56kg)
Gross Buoyancy	492 lb (223kg)
Net Buoyancy	368 lb (167kg)
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-450	CB-450 data buoy with polymer-coated foam hull & (3) 15-watt solar panels
CB-A05-1	CB-Series buoy battery harness with integrated solar regulator & (1) 28 A-Hr battery
CB-A05-2	CB-Series buoy battery harness with integrated solar regulator & (2) 28 A-Hr batteries
CB-X3L	CB-Series buoy data well lid for X3 data logger integration
CB-PTL	CB-Series buoy pass through data well lid for custom integrations, includes set of plugs & cable gland fittings
CB-MCL	CB-Series buoy wet-mate data well lid for custom integrations, includes solar connector pigtail & pressure relief valve (MCBH connectors sold separately)



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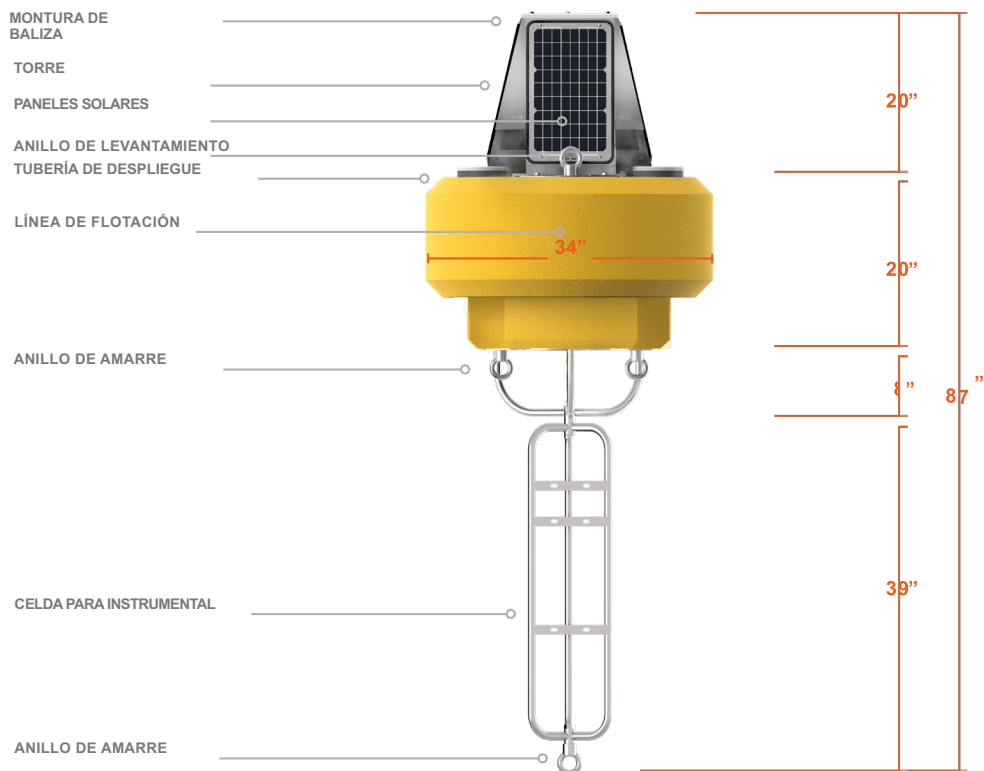
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CB-450

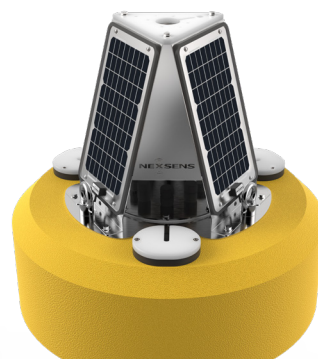
DATA BUOY especificaciones

Diámetro externo de casco	34.0" (86.4cm)
Altura de casco	20.0" (50.8cm)
Diámetro interno de la cámara de datos	10.3" (26.2cm)
Altura de la cámara de datos	19.5" (49.5cm)
Diámetro de agujero pasante	4.0" (10.2cm)
Altura de la torre	20.0" (50.80cm)
Paneles solares	3x 15-watts
Peso	124 lb (56kg)
Flotabilidad bruta	492 lb (223kg)
Flotabilidad neta	368 lb (167kg)
Material del casco	Espuma de polietileno con revestimiento de poliurea y cubierta de acero inoxidable
Material del equipo	316 acero inoxidable
Accesorios de Amarre	tuercas 3x 3/4"



partes

Parte #	Descripción
CB-450	Boya de datos con estructura revestida en polímero y (3) paneles solares de 32-watt, 450 lb. de flotabilidad neta
CB-A05-1	Arnés de batería con regulador solar integrado para boyas de la serie CB y (1) batería 28 A-Hr
CB-A05-2	Arnés de batería con regulador solar integrado para boyas de la serie CB y (2) baterías 28 A-Hr
CB-X3L	Tapa de cámara de datos para integración con el data logger X3 para la serie CB
CB-PTL	Tapa de cámara de datos para integración a medida, incluye tapones y conectores de cable
CB-MCL	Tapa de cámara de datos impermeable para integraciones a medida, incluye conector solar y válvula de escape de presión (los conectores MCBH se venden por separado)



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