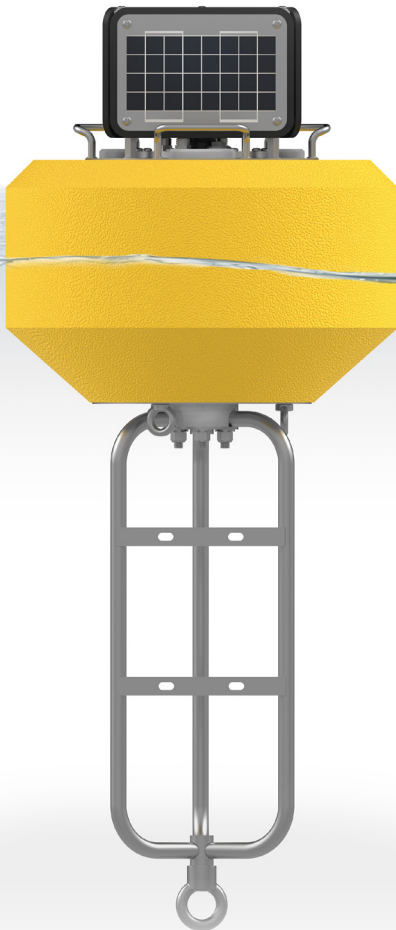


CB-75

DATA BUOY

- Compact and easy to deploy
- 4G LTE or Iridium satellite telemetry options
- Supports a variety of environmental sensors
- Autonomous battery & solar power
- Rugged polymer-coated foam hull



The **CB-75** Data Buoy is a compact, affordable, and easy to deploy platform for both water and atmospheric observations. At 21" (53.34cm) hull diameter and 40 lb. (18.14kg) weight, it's ideally suited for tethered moorings. The buoy is designed to integrate the **X3-SUB** Submersible Data Logger, which includes external sensor ports to support weather stations, thermistor strings, multi-parameter sondes, Doppler current profilers, GPS, and other monitoring instruments.

Constructed of an inner core of cross-linked polyethylene foam with a tough polyurea skin, the **CB-75** is designed for years of service. A rechargeable battery with integrated solar panels powers the system continuously, and all electronics are housed in a quick-removable **X3-SUB** data logger package with wet-mateable connectors. A removeable instrument cage serves as counter-ballast and supports instrument mounting, while three 1.5" (3.81 cm) pass-through holes facilitate cable routing of underwater sensors.

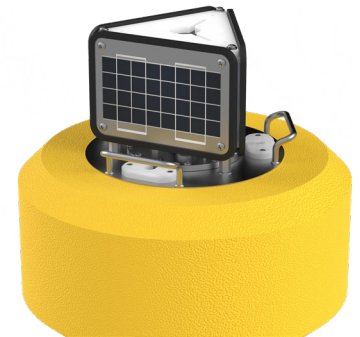
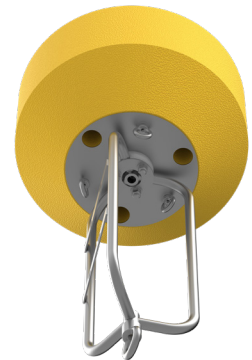
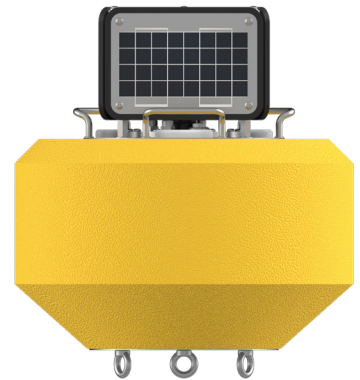
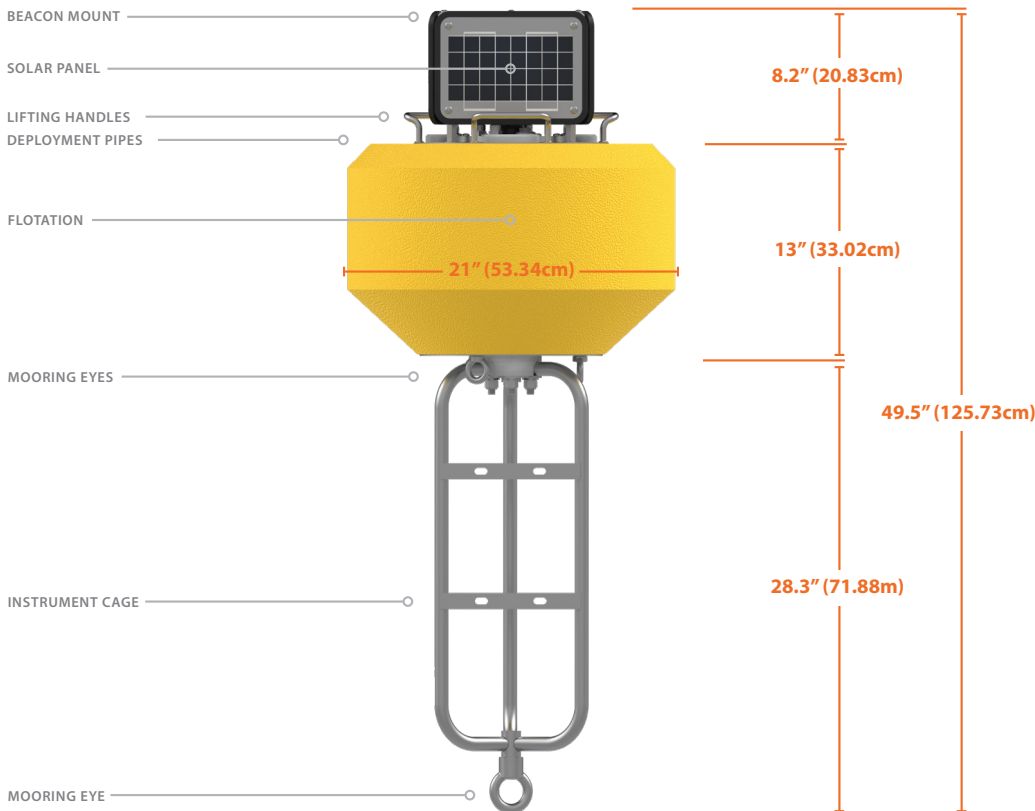
Available with integrated 4G LTE or Iridium satellite communications, the **CB-75** Data Buoy sends data in real-time to the cloud-based **WQData LIVE** datacenter. In the Basic tier, this free service allows users to securely access and analyze data, as well as share data through an auto-report. Subscription-based tiers of **WQData LIVE** are also available for generating custom alarms, exporting data through an API or custom NDBC/GLOS formats, and providing a publicly-accessible version of the project website.

CB-75

DATA BUOY

specifications

Hull Outer Diameter	21" (53.34cm)
Hull Height	13" (33.02cm)
Center Hole Inner Diameter	5.5" (13.97cm)
Center Hole Height	13" (33.02cm)
Pass-Through Hole Diameter	1.5" (3.81cm)
Tower Height	8.2" (20.83cm)
Solar Panels	3x 4-watts
Weight	28 lb. (12.70kg); 40 lb. (18.20kg) with X3-SUB
Net Buoyancy	75 lb. (34.00kg)
Hull Material	Cross-linked polyethylene foam with polyurea coating & stainless steel deck
Hardware Material	316 stainless steel, 304 stainless steel (lifting handles)
Tethering Attachments	3x 3/8" eye nuts



parts list

Part #	Description
CB-75	CB-75 data buoy with 1.5" instrument holes & (3) 4-watt solar panels, 75 lb. buoyancy
X3-SUB	X3-SUB submersible data logger
X3-SUB-4G	X3-SUB submersible data logger with global 4G LTE cellular telemetry
X3-SUB-IR	X3-SUB submersible data logger with Iridium satellite telemetry
MCIL6MP-USB-DC	Direct connect USB PC cable with external 12VDC power adapter, X3-SUB & X3-SVS
M550-F-Y	Solar marine light with flange mount & 1-3 nautical mile range, 15 flashes per minute, yellow
CB-ZA	Sacrificial zinc anode for CB-Series data buoys



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