

MB-100

portable data buoy

- *Lightweight for remote locations*
- *Deployable by a single person*
- *Supports wide variety of sensors*
- *Rugged polymer-coated foam hull*
- *Radio, cellular, or satellite telemetry*

The **MB-100** is designed for years of service and is built to withstand the roughest of seas in both surface and sub-surface applications. The data buoy's sturdy construction includes an inner core of cross-linked polyethylene foam, heavy polymer skin, and an indestructible stainless steel frame. All sensor connections are below the surface with ruggedized waterproof connectors. A wireless transmitter can be positioned above the water but hidden and protected under the buoy hood.

A fully loaded system (with data logger and batteries) weighs just over 30 lbs. and is easily deployed by one person from any vessel. Simply attach a single-point mooring assembly and throw it overboard. The buoy will right itself and begin logging data immediately. If equipped with an optional communication package, it will start transmitting data via radio-to-shore, cellular, or Iridium satellite telemetry.

The **MB-100** data buoy is designed to accommodate NexSens **SDL500** submersible data loggers. **SDL500** data loggers interface with multi-parameter sondes, water quality sensors, temperature strings, Doppler velocity meters, and many other sensors. The **SDL500** is configured with five sensor ports for connection to industry standard communication protocols. It supports SDI-12, RS-485, 1-wire, 0-2.5 VDC, pulse count, and digital I/O. With this interface versatility, the measurement possibilities are endless.

A complete **MB-100** monitoring system, including data logger and mooring equipment, is priced at a fraction of the cost of any system previously available. At this price point, a network of water monitoring buoys is feasible for many projects.



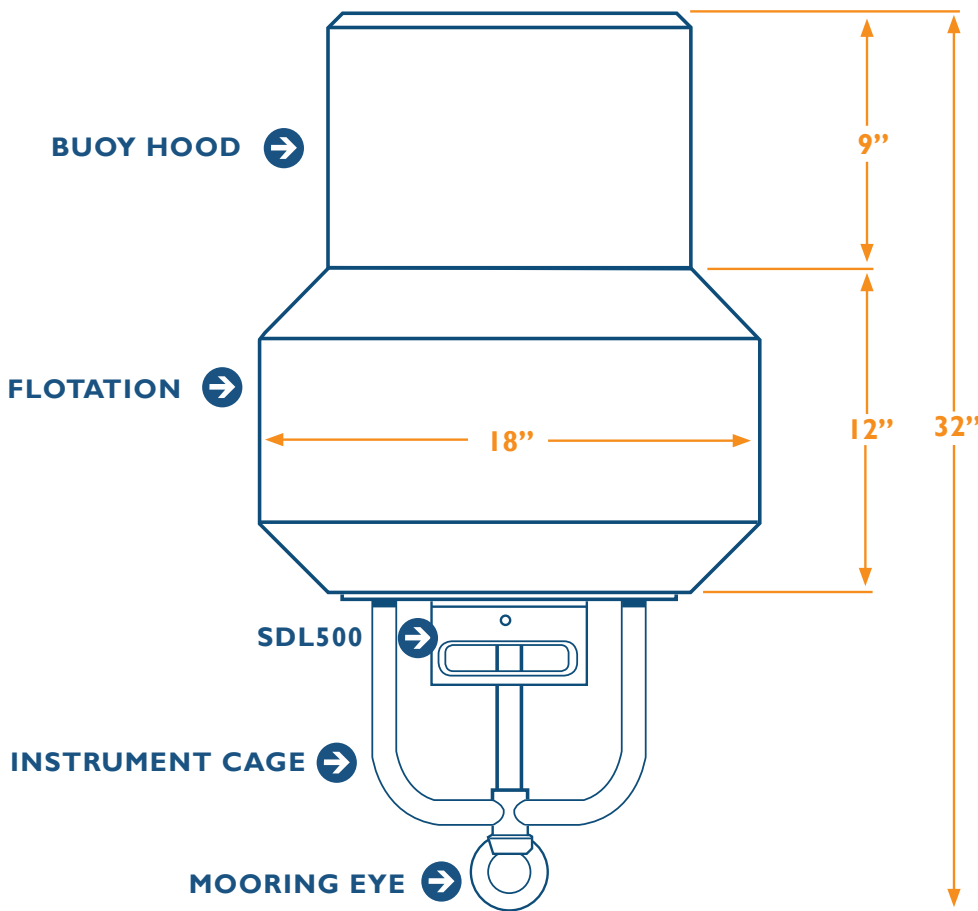
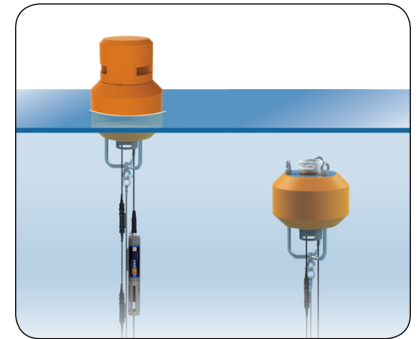
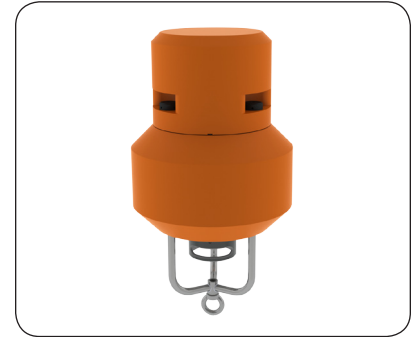
NEXSENS
technology

MB-100

portable data buoy

specifications

Overall Dimensions	18" (46cm) diameter; 32" (81cm) height
Weight	24 lbs. (no payload); 38 lbs. (with SDL500 & batteries)
Maximum Buoyancy	100 lbs.
Sub-Surface Buoyancy	60 lbs. (no hood)
Hull Construction	Cross-linked polyethylene foam with polyurea coating
Hood Construction	Cross-linked polyethylene foam with polyurea coating
Cage Construction	304 Stainless Steel
Mooring	Single Point



parts list

Part #	Description
MB-100	Portable data buoy with polymer-coated foam hull, 100 lb. buoyancy
502-A15	LED Beacon with solar power, 15 flashes per minute (066), amber
CAGE	Instrument cage buoy attachment
SDL500	SDL500 submersible data logger
SDL500R	SDL500 submersible data logger with radio telemetry
SDL500C	SDL500 submersible data logger with cellular modem telemetry
SDL500I	SDL500 submersible data logger with Iridium satellite telemetry



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