

MB-300

- *Self-powered data logging buoy*
- *Radio, cellular, or satellite telemetry*
- *Supports wide variety of sensors*
- *Accommodates SDL500 data loggers*
- *Rugged polymer-coated foam hull*

The NexSens **MB-300** Inland Lakes Data Buoy is designed for deployment in reservoirs, lakes, rivers, streams, and other freshwater environments. The floating platform supports both topside and subsurface environmental monitoring sensors with options for spread spectrum radio, cellular, and satellite data transmission to shore. Temperature strings, multi-parameter sondes, Doppler current meters, and other monitoring instruments can be quickly deployed through the center hole.

The buoy is constructed of an inner core of cross-linked polyethylene foam with a tough polymer skin. A 6" diameter PVC pipe passes through the center of the buoy for quick deployment of subsurface instruments. On the topside, a hinge-mount aluminum tower offers quick access to instrumentation for calibration and maintenance. Three topside cutouts accommodate NexSens **SP5** solar power packs, which include a 5-watt solar panel, charge regulator, and 8.5 A-Hr SLA battery housed in a watertight enclosure. Top and bottom-mounted stainless steel eye-nuts support mooring lines and lifting rigs for quick deployment.

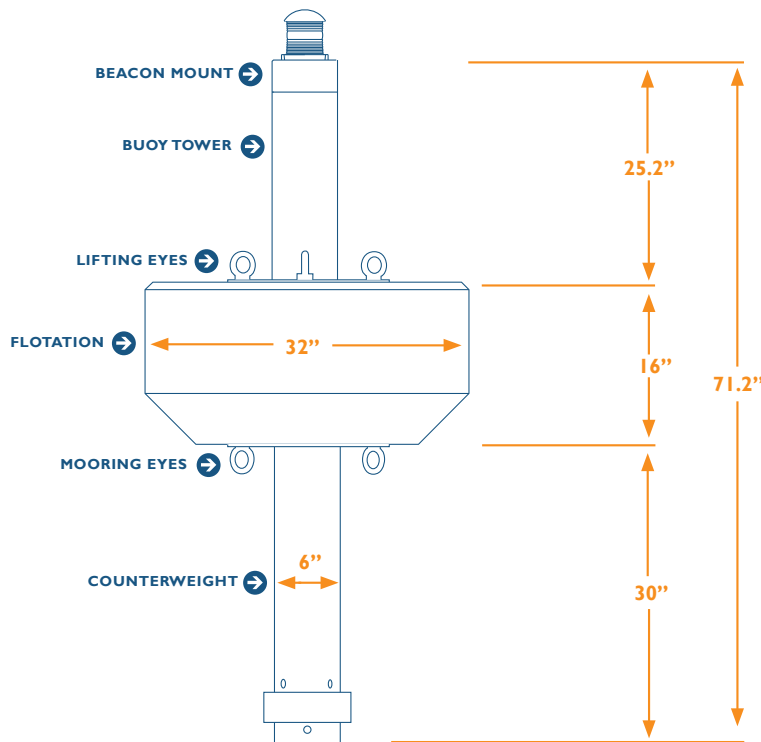
The **MB-300** Data Buoy is designed to accommodate NexSens **SDL500** submersible data loggers. The **SDL500** is configured with five sensor ports for connection to industry-standard digital and analog sensor interfaces, including RS-485, SDI-12, 1-wire temp string, 0-2.5V, pulse count, and more. Each sensor port offers a UW receptacle with double o-ring seal for a reliable waterproof connection. NexSens **iChart** Software is a Windows-based program for interfacing both locally (direct-connect) and remotely (through telemetry) to a single Data Buoy or network of Data Buoys.

MB-300

inland lakes data buoy

specifications

Hull Dimensions	32" (75cm) diameter; 16" (41cm) height
Overall Dimensions	71.2" (181cm) height
Weight	97 lbs (with ballast and tower); 149 lbs (with (3) solar power packs and SDL500 data logger)
Maximum Buoyancy	300 lbs.
Hull Construction	Cross linked polyethylene foam with polymer skin
Tower Construction	6061 Aluminum
Tower Dimensions	6" (15cm) diameter; 25.2" (64cm) height (with lid)
Counterweight Construction	304 Stainless Steel
Counterweight Dimensions	6" (15cm) diameter; 30" (76cm) height
Mooring Attachments	(6) 5/8" stainless steel eye nuts, (3) top-mounted and (3) bottom-mounted
Environment	Lakes, reservoirs, rivers & streams



parts list

Part #	Description
MB-300	Data buoy, polymer-coated foam hull, 300 lb. buoyancy
MB-Tower	Aluminum buoy tower, hinged & lockable
502-A15	LED Beacon with solar power, 15 flashes per minute, amber
SP5	Solar power pack, 5-watt panel, regulator, 8.5 A-Hr battery
SP5-PH	Power harness for connecting (3) SP5 solar power packs to SLD500 data logger
SDL500	Submersible data logger
SDL500R	Submersible data logger with spread spectrum radio telemetry
SDL500C	Submersible data logger with cellular modem telemetry
SDL500I	Submersible data logger with Iridium satellite telemetry



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