MINIBUOY
INSHORE MINI DATA BUOY

MINIBUOY is designed for sheltered water operations to typically 50m depth but can be deployed in as little as 0.5m. MINIBUOY can be tethered or free drifting and can be either a permanent or temporary platform. A special version, “Minibuoy SPM” is available for adding telemetry to seabed mounted instruments.

Mechanically, the buoy is tough, lightweight and easily deployed and recovered. Operation is completely autonomous, with no user controls, or set up required at the buoy. MINIBUOY can be equipped with a range of buoyancy modules, solar panels and equipment modules to cover most requirements. We are happy to discuss individual projects with you.

MINIBUOY is capable of accepting inputs from a wide range of different sensors. Typical parameters include: turbidity; salinity; temperature; dissolved oxygen; current speed; meteorology. The system can be fitted with most telemetry system, as standard. We offer GPRS, Iridium or VHF or a combination of any two.

Data are uploaded to a password protected user web site at intervals configurable from 5 minutes to 24 hours. All you need to control the buoy is a web enabled device such as your office computer or smart phone.

Easy to use and fast to deploy - The standard unit needs no setting up; just put in the water. It is ideal for collecting long term trend data and for monitoring transient events such as dredging, construction or spills.

Configurable from your desk or smart phone - Communication with the buoy is two way. Update rate, alarm levels and calibration constants, can all be set and reset over the telemetry link direct from your web browser, no need to visit and recover the buoy.

Alerts by text message and email - If an alarm threshold is crossed, notifications can be sent automatically to named users by email and/or text message.

Dense data networks - There is no limit to the number of buoys that can be deployed simultaneously and each is individually addressable from your web browser. All buoys are fitted with, telemetry, GPS, battery monitoring and solar panels as standard. Weather reporting, on-board data, logging and navigation lights are available as options if required.

Position is monitored using on board GPS and watch circle radius can be set by the user.

MINIBUOY payloads may also be deployed in our other standard hulls covering the range 1.25m diameter to 3.6 meter diameter. Ask for details.
TYPICAL SPECIFICATIONS:

- Buoys diameter/height: 610mm/305mm
- Total mass (with 5W, DBT-3, ballast & battery): ~50kg
  ~30kg
- Draft (ballasted): <1m
  To user's specification
- Measurement depth: 1 serial, 3 analogue and 1 digital
- Interfaces: Direct data output to a password protected, user web site as standard
- Communications: 12volts 12Ah giving complete autonomy
  2 x 5 watts or 2 x 10 watts
- Battery capacity: Reporting frequency (from 5 minutes to 24 hours as standard)
- Solar panel capacity: Parameters to be displayed
  Position alert
  Individual alarm thresholds
  Recipients of text and email alerts
- Other options: Met sensor (wind speed, direction, relative humidity, air pressure, dew point);
  water depth; current speed and direction; dissolved oxygen; pH;

TYPICAL DATA SET

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