



Planet
Ocean Ltd

The surest measure of a changing world

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.



Minibuoys with 2 x 5W solar panels, 2 x 10W solar panels and 610mm dia float



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.



Data Buoy Sensor Interface - PART1

These lists show the latest 5 data entries from all the buoys currently deployed. All times are in GMT. Click the 'Google maps' link next to the buoy name to view the last known location of the buoy. Click [here](#) to return to the main menu.

Buoy name: Buoy 1 reference (89441000300670945207) (Google maps)								
Time (GMT)	Date	Latitude	Longitude	Probe Temp. (°C)	Salinity (ppt)	Turbidity (mg/l)	Battery Voltage (V)	Case Temp. (°C)
13.00.00	28.02.10	51°19.8566N	000°45.6699W	9.54	0.02	0.11232	12.57	12.6
12.55.00	28.02.10	51°19.8548N	000°45.6782W	9.54	0.02	0.11232	12.69	9.6
12.50.00	28.02.10	51°19.8092N	000°45.7800W	9.54	0.02	0.11376	12.63	10.1
12.45.00	28.02.10	51°19.8329N	000°45.6708W	9.54	0.02	0.11376	12.71	12.1
12.40.00	28.02.10	51°19.8329N	000°45.6708W	9.53	0.02	0.11376	12.61	12.6

Buoy name: Buoy 2 reference (89441000300670945173) (Google maps)								
Time (GMT)	Date	Latitude	Longitude	Probe Temp. (°C)	Salinity (ppt)	Turbidity (mg/l)	Battery Voltage (V)	Case Temp. (°C)
13.00.00	28.02.10	51°19.8276N	000°45.7235W	9.52	0.22	0.0288	12.65	12.6
12.55.00	28.02.10	51°19.8220N	000°45.6998W	9.52	0.22	0.02592	12.65	12.6
12.50.00	28.02.10	51°19.8041N	000°45.7156W	9.52	0.22	0.0288	12.65	12.1
12.45.00	28.02.10	51°19.8041N	000°45.7156W	9.52	0.22	0.0288	12.65	12.1
12.40.00	28.02.10	51°19.8296N	000°45.7232W	9.51	0.22	0.02736	12.63	12.1

Buoy name: Buoy 3 monitoring (89441000300670945181) (Google maps)								
Time (GMT)	Date	Latitude	Longitude	Probe Temp. (°C)	Salinity (ppt)	Turbidity (mg/l)	Battery Voltage (V)	Case Temp. (°C)
13.00.00	28.02.10	51°19.8306N	000°45.6921W	10.52				
12.55.00	28.02.10	51°19.8284N	000°45.7041W	10.59				
12.50.00	28.02.10	51°19.8369N	000°45.6923W	10.69				
12.45.00	28.02.10	51°19.8410N	000°45.6835W	10.74				
12.40.00	28.02.10	51°19.8338N	000°45.6919W	10.70				

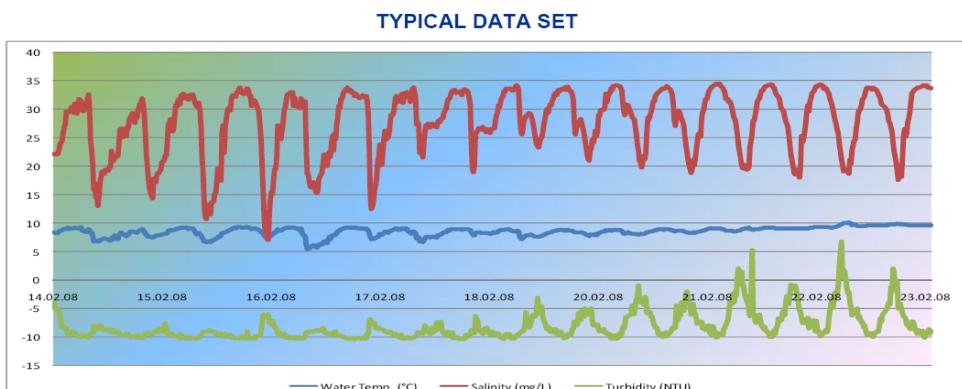
Buoy name: Buoy 4 monitoring (89441000300670945199) (Google maps)								
Time (GMT)	Date	Latitude	Longitude	Probe Temp. (°C)	Salinity (ppt)	Turbidity (mg/l)	Battery Voltage (V)	Case Temp. (°C)
13.00.00	28.02.10	51°19.8247N	000°45.7030W	10.42				
12.55.00	28.02.10	51°19.8221N	000°45.7029W	10.49				
12.50.00	28.02.10	51°19.8490N	000°45.6862W	10.57				
12.45.00	28.02.10	51°19.7987N	000°45.7160W	10.62				



Location of Buoy 1 WEST(8944121391534598253)

TYPICAL SPECIFICATIONS:

Buoy diameter/height:	610mm/305mm
Total mass (with 5W, DBT-3, ballast & battery):	~50kg
Reserve buoyancy	~ 30kg
Draft (ballasted):	<1m
Measurement depth:	To user's specification
Interfaces:	1 serial, 3 analogue and 1 digital
Communications:	GPRS as standard, with Iridium or VHF as options Direct data output to a password protected, user web site as standard
Battery capacity:	12volts 12Ah giving complete autonomy
Solar panel capacity:	2 x 5 watts or 2 x 10 watts
User configurable options:	Reporting frequency (from 5 minutes to 24 hours as standard) 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;



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