

Real-time Data Buoys

Data Buoys

Our data buoys are used for a wide variety of applications from water quality monitoring in freshwater and marine environments, through to metocean monitoring. Integration of a wide range of sensors throughout the water column from the sea surface to seafloor means that the specific requirements of each client can be met. Our range of buoys allows us to offer cost-effective bespoke deployments, appropriate to the conditions at your site. Core to our integrated monitoring solutions are the TMBB – Command and Control system and our CoastEye data portal.

The TMBB is a high performance, low power, rugged unit (IP68), powering our robust, reliable and secure marine data retrieval. It features a powerful data acquisition system, with integrated wireless technology, as well as a platform controller to manage power and monitor system health. It provides a complete data acquisition and telemetry solution, including a range of communications and redundancy options (GSM, GPRS, UHF/VHF, Satellite and Wi-Fi). Our end-to-end communications solution includes CoastEye, which allows you to visualise and analyse your data and remotely manage the platform configuration. Access to your data on CoastEye is available through a local intranet login option or via a secure login to a web portal.

All our data buoy platforms have navigation lights and radar reflectors as standard from an IALA and marine safety point of view. We can provide site specific mooring studies if required to ensure the right mooring is delivered for the environment. The buoys are powered with solar panels, batteries or wind generators, based on the application. Quality assurance is core to our service provision and we follow international (WMO) standards for metocean data acquisition.



Real-time Data Buoys

Data Buoys

	Deployment Type	Inshore	Coastal	Coastal/ Offshore	Offshore	Offshore/ Deepwater
	Buoyancy	500kg	600kg	2000kg	4000kg	8000kg
Sensors	Salinity	•	•	•	•	•
	Conductivity	•	•	•	•	•
	Temperature	•	•	•	•	•
	Depth	•	•	•	•	•
	Chlorophyll	•	•	•	•	•
	Turbidity	•	•	•	•	•
	CDOM	•	•	•	•	•
	Dissolved Oxygen	•	•	•	•	•
	Profiling Current	•	•	•	•	•
	Meteorology	•	•	•	•	•
	Waves	•	•	•	•	•
	Nitrate	•	•	•	•	•
	Phosphate		•	•	•	•
	ppCO2			•	•	•
	Water Sampler			•	•	•
Telemetry	GPRS	•	•	•	•	•
	GSM	•	•	•	•	•
	Satellite	•	•	•	•	•
	UHF/VHF	•	•	•	•	•



Contact Us:

TechWorks Marine Ltd.

T: +353 (0) 1236 5990

F: +353 (0) 1236 5992

E: sales@techworks.ie

W: www.techworks.ie