



data buoy platforms



moorings



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installation

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# Mobilis DB 14000

## 3.6m diameter data buoy platform



MOBILIS

The DB 14000 is a meteorological/oceanographic data buoy capable of carrying a large number of sensors/equipment packages along with a large solar panel array and battery bank.

The DB 14000 comprises a 3.6m diameter hull constructed from multiple-section polyethylene floats that are bolted around a central steel structure, with through-hull access for underwater instrumentation and cabling.

The buoy's hull supports the same large marine grade aluminium towers as the DB 8000, allowing its large equipment payloads to be placed in a protected location. The DB 14000 has been designed with a larger diameter tower to allow more equipment to be installed and enable technicians to access underwater instrumentation from inside the tower. The buoy is available fitted with a St Andrew's Cross as pictured right, or with a large sensor mounting ring that offers protection for meteorological sensors and antennae whilst still allowing exposure to the elements that they are installed to measure.

A typical installation for the DB 14000 contains a meteorological sensor suite measuring wind speed and direction, air temperature, relative humidity, and barometric pressure. It also has an oceanographic sensor suite measuring salinity, depth, dissolved oxygen, chlorophyll 'A', turbidity, dissolved organic matter, and nitrates. A spectral wave sensor outputs wave height, wave period and direction. Data is transmitted ashore using an Iridium satellite communication system.

### features:

- UV stabilised MDPE components – retains colour within IALA guidelines for more than 15 years
- Highly suitable for offshore wind farms
- Modular system - reduces spares holding
- Robust, compact design
- Can withstand harsh marine environment
- Through-hull access
- Easy to handle and transport
- Modular solar power systems
- Highly stable in operation



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### modular



### multiple float sections



aquaculture | marinas & sailing clubs | ports & harbours | offshore renewable energy | oil & gas

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# Mobilis DB 14000

## specifications and applications

### construction

Central Hull Structure	Glass flake painted steel
Floats	MDPE - min 20mm thick
Tower & Equipment Ring	Marine grade aluminium

### physical

Hull Diameter mm	3600
Total Height mm	6650
Freeboard (Fully Laden) mm	1750
Draft (Fully Laden) mm	1870
Focal Height mm	4350
Hull Buoyancy Kg	14000
Reserve Buoyancy (Total Assembly) Kg	10750

### power system

Solar Panels W	760
Batteries Ah @ 12v dc	600

### weights

Complete Buoy Kg	3250
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### application

Offshore	✓
Ocean	✓

### instrument enclosures



### safety features



### through-hull access



### solar power system



### power supplies



### instrument cage



## Mobilis data buoy platforms

Mobilis data buoy platforms can be tailored to meet user requirements regarding shape, navigation lights, radar reflectors, solar power supplies, monitoring systems, and moorings. Full installation and maintenance services are available. Please **contact us** for more information.



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### about Hydrosphere

Hydrosphere is the UK's leading supplier of aids to navigation and has been providing cost-effective solutions to the marine industry for more than 18 years. We offer a wide range of navigation and mooring buoys, LED navigation lights, sector lights, rotating beacons, leading lights, jetty masts, beach and zone marking products and associated moorings. Rental, installation and maintenance services are also available for all our products and systems.

For more information please contact us.

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Compliant with all IALA recommendations.

