

data buoy platforms



moorings



navigation buoys



hydrosphere



navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

Mobilis DB 4000

2.4m diameter data buoy platform



MOBILIS

The DB 4000 is a meteorological/oceanographic data buoy modelled on the highly successful JET 4000 J navigation buoy. It has a hollow steel central core onto which a variety of daymark towers can be fitted depending on focal height, payload and power requirements.

The DB 4000 comprises a 2.4m diameter hull constructed from multiple-section polyethylene floats bolted around the central structure, with through-hull access for underwater instrumentation and cabling.

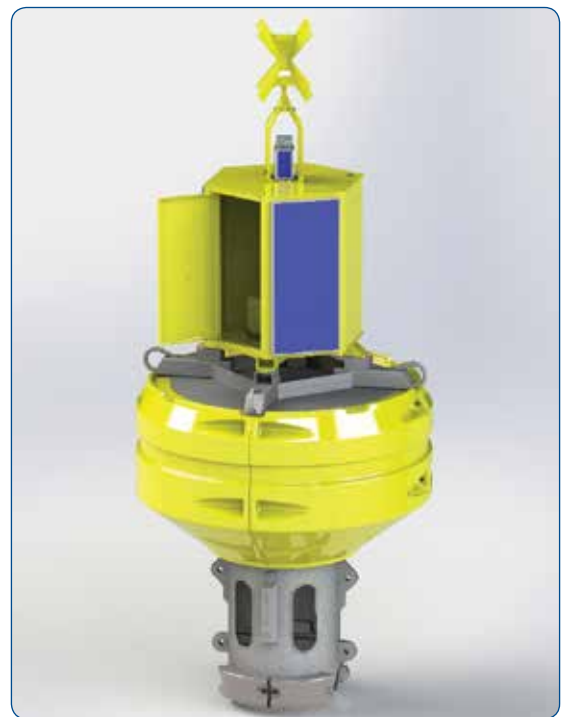
The standard daymark for the buoy is the 1.4m hexagonal tower, which provides internal space for instrumentation and batteries and a large external area for mounting solar panels. The buoy is available as either the DB 4000-STD model, fitted with a St Andrew's Cross as pictured right, or as the DB 4000-OC model, which has large sensor mounting ring for meteorological sensors and antennae. The sensor ring also offers some protection to the sensors whilst still allowing them exposure to the elements they are installed to measure.

As all components are fabricated in jigs, replacement structures can be held at base allowing a buoy to be quickly reconfigured with a completely different sensor suite and/or data logging system.

The robust design of the DB 4000 enables it to withstand harsh sea conditions and allows long periods without interim servicing. The buoy is suitable for most applications around the UK.

features:

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



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large equipment compartment



multiple float sections



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

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Mobilis DB 4000

specifications and applications

construction

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

physical

Hull Diameter mm	2400
Total Height mm	4945
Freeboard (Fully Laden) mm	770
Draft (Fully Laden) mm	1445
Focal Height mm	2490
Hull Buoyancy Kg	4000
Reserve Buoyancy (Total Assembly) Kg	1984

power system

Solar Panels W	3 x 90
Batteries Ah @ 12v dc	2 x 100

weights

Complete Buoy Kg	2016
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application

Offshore	✓
Coastal	✓

through-hull access



St Andrew's cross



modular construction



multiple mooring points



through-hull water flow system



large solar power system



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.

