



data buoy platforms



moorings



navigation buoys



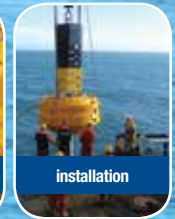
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navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

# Mobilis DB 2000

## 1.9m diameter data buoy platform



MOBILIS

The DB 2000 is a meteorological/oceanographic data buoy modelled on the highly successful JET 2000 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 2000 comprises a 1.9m 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 1m 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 2000-STD model, fitted with a St Andrew's Cross as pictured right, or as the DB 2000-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.

The robust design of the DB 2000 enables it to withstand harsh sea conditions and allows long periods without interim servicing.

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.



data buoy platforms

### 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

### modular construction



### sensor mounting ring



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# Mobilis DB 2000

## specifications and applications

### construction

Central Hull Structure	Galvanised steel
Floats	MDPE - min 15mm thick
Tower & Equipment Ring	Marine grade aluminium

### physical

	UKMO-STD	UKMO-OC
Hull Diameter mm	1900	1900
Total Height mm	3850	4405
Freeboard (Fully Laden) mm	535	535
Draft (Fully Laden) mm	1365	1365
Focal Height mm	2400	2400
Hull Buoyancy Kg	2000	2000
Reserve Buoyancy (Total Assembly) Kg	1000	1000

### power system

Solar Panels W	3 x 55	3 x 55
Batteries Ah @ 12v dc	1 x 100	1 x 100

### weights

Complete Buoy Kg	1015	1015
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### application

River	✓	✓
Coastal	✓	✓

### through-hull access



### sensor protection ring



### large equipment compartment



### 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 20 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.



Royal Institute of Navigation

