



the UK's leading supplier of aids to navigation

Mobilis DB 650

1.2m diameter data buoy platform



MOBILIS

The Mobilis DB 650 is the latest data buoy platform from Hydrosphere. Designed for inshore and estuary use in up to 50m water depth, the buoy offers a robust, flexible platform that can be used for a wide variety of applications.

The DB 650 has a 1.2m diameter hull with 650Kg buoyancy. Despite its compact unit it retains features of the larger Mobilis data buoy platforms including a robust central structure with through-hull access for underwater instrumentation and cabling. Buoyancy is provided by multiple-section rotationally moulded polyethylene (MDPE) floats, which are bolted around the structure.

The DB 650 can be supplied as a hull-only assembly for customers to fit their own towers. Alternatively, Hydrosphere can supply a variety of towers to suit individual focal heights, payloads, and power requirements. The modular design makes the buoy easy to handle and transport and means it can be quickly redeployed with a different equipment configuration if required.

The solar system shown in the photograph opposite can accommodate a large amount of customer electronics for data acquisition and telemetry.



data buoy platforms

features:

- UV stabilised MDPE components – retains colour within IALA guidelines for more than 15 years
- Suitable for inshore and estuary applications
- Modular system - reduces spares holding
- Highly stable in operation
- Interchangeable parts
- Robust, compact design
- Can withstand harsh marine environment
- Through-hull access
- Easy to handle and transport
- Modular solar power systems
- Two lifting points
- Single or multi-point moorings



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Mobilis DB 650

specifications and applications

construction

Central Hull Structure	MDPE - min. 15mm thick
Floats	MDPE - min 10mm thick
Solar Box & Topmark	Marine grade aluminium

physical

Hull Diameter mm	1200
Total Height mm	2810
Freeboard (Fully Laden) mm	445
Draft (Fully Laden) mm	915
Focal Height mm	1895
Hull Buoyancy Kg	650
Reserve Buoyancy (Hull Assembly Only) Kg	461
Reserve Buoyancy (Total Assembly) Kg	416

weights

Hull Assembly (Exc. Ballast) Kg	109
Ballast Kg	80
Solar System & Battery Kg	40
Topmark Kg	5
Total Kg	234

application

Inshore	✓
Estuary	✓

solar powered LED light



robust lifting eyes



through-hull access



solar power system



stainless safety catches



2 or 4 ballast weights



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.



hydrosphere

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.

data buoy platforms | moorings | navigation buoys | navigation lights | mooring buoys | installation

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Compliant with all IALA recommendations.

