



data buoy platforms



moorings



navigation buoys



hydrosphere



navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

Mobilis DB 8000 UKMO-HX



MOBILIS

3m diameter data buoy platform

The DB 8000 UKMO-HX is a meteorological/oceanographic data buoy, which has now been adopted by the UK Met Office as the standard replacement platform for the old 'K' series ODAS buoys. It is capable of carrying a large number of sensors/equipment packages along with a large solar panel array and battery bank.

Based on the Mobilis DB 8000 data buoy platform, it comprises a 3m 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 large marine grade aluminium towers of the DB 8000 allow its large equipment payloads to be placed in a protected location. In addition, the meteorological sensors and antennae are mounted within a strong protection ring whilst still allowing exposure to the elements that they are installed to measure. The robust design of the DB 8000 enables it to withstand some of the harshest sea conditions in the UK and last for long periods without interim servicing.

The UKMO-HX buoy, as shown opposite, 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 sea temperature and a spectral wave sensor that outputs wave height, wave period and direction. Data is transmitted ashore using an Iridium satellite communication system.



data buoy platforms

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
- Can withstand harsh marine environment
- Robust, compact design
- Through-hull access
- Easy to handle and transport
- Modular solar power systems
- Highly stable in operation

modular



highly visible



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

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Mobilis DB 8000 UKMO-HX

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	3000
Total Height mm	6400
Freeboard (Fully Laden) mm	1000
Draft (Fully Laden) mm	2050
Focal Height mm	3800
Hull Buoyancy Kg	8000
Reserve Buoyancy (Total Assembly) Kg	5860

power system

Solar Panels W	400
Batteries Ah @ 12v dc	1320

weights

Complete Buoy Kg	2140
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application

Offshore	✓
Ocean	✓

instrument enclosures



safety features



through-hull access



solar power system



power supplies



protection ring



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.

