



Planet
Ocean Ltd

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DB-175 DB-200 DB-240 MODULAR DATA BUOY PLATFORMS

The DB- range of data buoy platforms are designed for open water & coastal operations where instrumentation is required to be deployed on the surface or at the sea bed and can be permanent or temporary platforms. These buoys will support service personnel at sea and include a steel safety rail. The modular construction allows the buoy to be broken down for shipping. **The same basic design** covers the range 1.75m, 2.00m and 2.40m diameter.

The system is modular and can be supplied with integrated solar power supply comprising up to 4 x 20W solar panels, regulator and batteries, self contained solar powered navigation light, St Andrews cross top mark, choice of telemetry system, message stencilling. Data buoys can also be supplied in standard lateral or cardinal configurations if required.



The buoys are fitted with a through hull fairlead tube (moon pool) so that instruments can be deployed without cables being exposed over the hull and without recovering the buoy. Instruments are stored within the tube until the buoy is deployed, providing important protection during movement. Instrument packages may also be deployed through the centre of the hull and ballast skirt. The DB range is fitted with a hollow, removable upper tower section that houses the radar reflector and sensitive electronics modules within its own protected compartment. The upper tower section has a tapered lower portion that fits into a similarly tapered receptor in the middle tower section that makes alignment at sea extremely simple. The buoys have flat bottoms and are free standing.

The split, two part floatation unit, and other key components, are manufactured from rotationally moulded polyethylene with optimum E.S.C.R. (Environmental Stress Crack Resistance) Pre-coloured virgin polymers, with high UV stability Robust wall thickness collars are also filled with marine safety approved close-cell foam making them virtually unsinkable even when punctured. Steel work galvanised, as standard, to BS EN ISO 1461-1999.

We also offer a smaller 1.25m DB-125, and larger DB-300, 3.0m diameter hulls, all with similar features

PLEASE CONTACT US TO DISCUSS YOUR CHOICE.

Specifications:

	DB-175	DB-200	DB-240	ALL MODELS	
Diameter mm	1750	2000	2400	Solar Panels	Up to 4 x 20W
Overall height mm (inc top mark and light)	4000	4000	4000	Nav light	Self contained solar. Typ Gp5 ev 20 amber, range 2nm in UK.
Overall Wt Kgs ex battery, chassis and payload	715	820	990	Radar reflector	Internal Echomax radar reflector giving peak RCS 24m ²
Overall Wt of removable tower ex battery, chassis and payload (inc in above)	50.5	50.5	50.5	Fairlead deployment tube	128mm ID, 160mm OD, 1m long.
Focal Plane height at optimum ballast	3150	3150	3150		
Optimum mooring Wt / Ballast Kgs	350	530	850		
Reserve Buoyancy Kgs with optimum mooring Wt	500	740	1080		
Typical Mooring Chain	22-30 mm	28-32mm	32-38mm		
Typical Anchor Weight Kgs	2000	2300	3500		

Construction:

Manufactured in the UK, the manufacturing plant operates quality management systems in line with BS EN ISO 9001- 2000. Each Buoy in the range as been carefully designed and tested using the latest in CAD and electronics technology. This helps to deliver high performance, long lasting and reliable buoys, that can be simply installed and easily maintained. Each component part can be simply transported and quickly fixed with the latest in high security bolts. The versatility of the design allows for additional float collars to be added doubling the reserve buoyancy. All components are replaceable or interchangeable, and where possible standardised to minimise the stocks of spare parts.

Mooring Steel work

- 2 Lifting eyes ,4 mooring eyes Galvanised.

Float Collar

- 2 part rotationally moulded virgin polyethylene
- Filled with marine safety approved, close cell foam

Service Exchanger Tower

- Rotationally moulded virgin polyethylene.
- Designed for easy in service removal, repair or exchange
- 2 - 4 x 20 watt solar panels
- Echomax Radar reflector 24m²

Lantern

- Carmanah model 601 amber 2nm at Gp4 ev 20 seconds

Top Mark

- St Andrews cross, cardinal or lateral available

Day Mark

- Secure safety rail, Lettering moulded into plastic

Optional Extras

- 2 coats ZINGA on steel core to substantially increase service life
- Non-slip coating to top of float collar



Optional DBT-2 telemetry module with 38AH battery, **BUOYTRACKER** Fitted to stainless steel battery chassis

Moving hull with optional lift beam



Tower section removed



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