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Ocean Ltd

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DB-125 MODULAR DATA BUOY PLATFORM



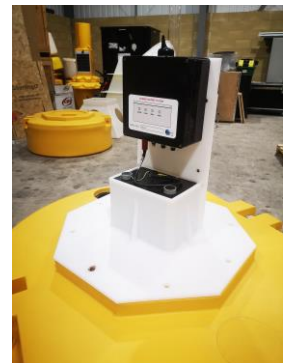
The DB-125 is shown here with solar powered navigation light and 4 x 20W solar panels.

The DB-125 Data Buoy system is designed for sheltered coastal operations to typically 50m depth where instrumentation is required to be deployed near the surface and can be either permanent or temporary platforms.

The system is modular and incorporates an internal radar reflector, integral solar power supply, self contained solar powered navigation light, St Andrews cross top mark and antenna/sensor bracket, choice of telemetry system and message stencilling. Data buoys can also be supplied in standard port or starboard lateral configurations if required.

The buoys are fitted with a through hull fairlead tube so that instruments can be deployed and recovered without cables being exposed over the hull and without recovering the buoy and standard frames are available which support, acoustic modems, CTD's, ADCP's etc.

The DB-125 is fitted with a hollow, removable tower section that houses the radar reflector and can house sensitive electronics modules and batteries. The buoys have flat bottoms and are free standing with a single point recessed mooring eye. A standard option is a pre-ballasted multi-point mooring keel. This allows dual, triple or quad mooring arrangements to prevent rotation of the buoy should this be desirable.



Polyethylene Chassis with DBT-4 module and battery

Planet Ocean offer complete data buoy systems using their in house designed DBT-4 (Data Buoy Telemetry) system. This system has been designed specifically for data buoy use and incorporates several advanced features to provide extremely high reliability in the field. Data may be telemetered using radio, cellular or satellite telemetry or a combination of all three. The DBT-4 is extremely flexible and can accommodate a growing range of sensors including cameras and impact sensors. Please contact sales@planet-ocean.co.uk for details.

The 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 filled with marine safety approved close-cell foam and are virtually unsinkable. Steel work is galvanised, as standard, to BS EN ISO 1461-1999.

Specifications:				
Diameter mm	1250	Solar Panels	Up to 4 x 10W (4 x 20W to special order)	
Hull depth mm	500	Nav light	Self contained solar. Typ Gp5 ev 20 amber, range 2nm in UK.	
Typical water line above base mm	250	Radar reflector	Internal Echomax EM230 giving peak RCS 24m ²	
Overall height with X and SL-70 lantern mm	2718	Fairlead deployment tube	128mm ID 160 mm OD x 560mm long	
Overall height with X and lantern mm with pre-ballast keel	2918			
Packed height with X removed mm (standard hull)	1960			
Overall Wt inc typical payload and battery Kgs	138			
Overall Wt with pre-ballast keel Kgs	223			
Typical Chain size mm	16/19			
Mooring Eye:	110mm OD 60mm ID			
Max weight of Mooring + ballast Kgs	200			
Minimum weight of mooring Kgs	140			
Sinker Weight typical in water Kgs	450			



Optional self ballasting Keel with 4 mooring points



Example of instrument mounting frame