



Planet
Ocean Ltd



The surest measure of a changing world

DB-360-ODAS 3.6M OCEAN DATA ACQUISITION SYSTEM



Designed originally to meet the exacting standards of the UK Met Office, the DB-360-ODAS is the largest in the range of specially designed data buoy platforms and is intended for open ocean deployment in deep water where instrumentation is required to be deployed on the surface and below and can be a permanent or temporary platform. These buoys will support service personnel at sea in their "crows nest" which includes a sensor ring for attachment of meteorological instruments and antennas with ladder access. The modular construction allows the buoy to be broken down for shipping. The buoy includes a modular tower section offering nearly 3 m³ of hatch accessible payload space which can be extended by "stacking" the octagonal mid sections.

The system can be supplied with integrated solar power supply comprising up to 4 x 55W solar panels on stainless steel sub-frame (as shown) together with 7 20W panels mounted on the octagonal faces of the mid section. A huge variety of solar panel combinations can be accommodated to cope with the most demanding payload power requirements. Batteries up to 400 AH at 12V as standard are accommodated in a sealed compartment within the hull steel work, keeping the centre of gravity low. A self contained solar powered navigation light is also provided.

The buoys can be fitted with up to four through hull fairlead tubes (moon pools) so that ocean 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. Buoys can be fitted with lifting eye extensions which make them liftable using a single hitching point. The buoys have flat bottoms and are free standing.

The hull comprises four independent float units around a central steel core and are manufactured from rotationally moulded polyethylene with optimum E.S.C.R. (Environmental Stress Crack Resistance) Pre-coloured virgin polymers, with high UV stability. Floats are also filled with marine safety approved close-cell foam making them virtually unsinkable even when punctured. Steel work is galvanised, as standard, to BS EN ISO 1461-1999.

Specifications:

Diameter mm	3600	Solar Panels	Up to 7 x 50W
Overall Wt Kgs ex battery and payload	2582	Nav light	Self contained solar. Typ Gp5 ev 20 amber, range 4 nm in UK.
Sensor ring height at optimum ballast mm	4290	Radar reflector	Internal Echomax radar reflector giving peak RCS 24m2
Typical Mooring Chain	38 mm	Fairlead deployment tube	2 Off 128mm ID, 160mm OD
Typical Anchor Weight Kgs	5500	Optimum mooring Wt / Ballast Kgs	3400 Kgs
Free board at optimum ballast mm	600	Approximate reserve buoyancy	6620 kgs

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. 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

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

Tower Section

- Rotationally moulded virgin polyethylene.
- Designed for easy in service removal, repair or exchange
- Echomax Radar reflector 24m2

Lantern

- Sealite 4nm at Gp4 ev 20 seconds

Crows Nest

- Stainless steel and aluminium sensor ring

Optional Extras

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

Planet Ocean offers a wide range of sensors, data processing modules and telemetry.

Specifications subject to change without notice

DB-360-ODAS iss B Feb 2013