



Planet  
Ocean Ltd

*The surest measure of a changing world*

## **DB-300-ODAS 3M OCEAN DATA ACQUISITION SYSTEM**



Photo courtesy of UK MetOffice

Designed originally to meet the exacting standards of the UK Met Office, and based upon the class II Mk II navigation buoy used by the UK Trinity House, the DB-300-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 can be a permanent or temporary platform. These buoys will support service personnel at sea in their "crows nest" which includes an optional 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 m<sup>3</sup> of hatch accessible payload space.

The system and can be supplied with integrated solar power supply comprising up to 11 x 55W solar panels, regulator and batteries up to 400 AH at 12V as standard. Solar panels are fitted to a stainless steel sub frame to protect them from impact damage by large waves. A self contained solar powered navigation light is also provided.

The buoys are fitted with two 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 the liftable using a single hitching point. The buoys have flat bottoms and are free standing.

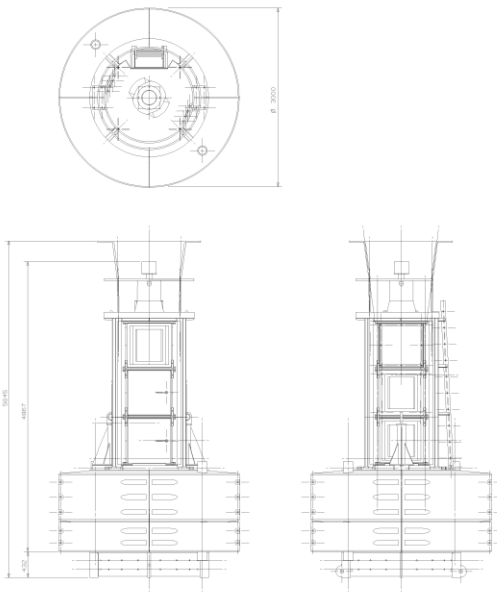
The hull comprises four independent float units around a central steel core and are manufactured from rotationally moulded polyethylene with optimum E.S.C.R. (Environmental Stress Crack Resistance) Pre-coloured virgin polymers, with high UV stability. Floats are also filled with marine safety approved close-cell foam making them virtually unsinkable even when punctured. Steel work is galvanised, as standard, to BS EN ISO 1461-1999. A unique feature of the DB-300 is that it can be offered in two versions, MkI and MkII which is fitted with four additional "assistor floats" these bolt below the standard floats and provide additional ballast. Their unique design also contributes to increased stability.

We also offer a smaller diameter hulls, 1.0 to 2.4m all with similar features

**PLEASE CONTACT US TO DISCUSS YOUR CHOICE.**

## Specifications:

<b>Diameter mm</b>	3000	<b>Solar Panels</b>	Up to 7 x 50W
<b>Overall Wt Kgs ex battery and payload</b>	2350 Mkl	<b>Nav light</b>	Self contained solar. Typ Gp5 ev 20 amber, range 4 nm in UK.
<b>Sensor ring height at optimum ballast</b>	4,29 m	<b>Radar reflector</b>	Internal Echomax radar reflector giving peak RCS 24m <sup>2</sup>
<b>Typical Mooring Chain</b>	22-30 mm	<b>Fairlead deployment tube</b>	2 Off 128mm ID, 160mm OD
<b>Typical Anchor Weight Kgs</b>	7000	<b>Optimum mooring Wt / Ballast Kgs</b>	7000 Kgs
<b>Free board at optimum ballast</b>	0.5m Mkl	<b>Approximate reserve buoyancy</b>	3900 kgs
	0.8m Mkl		



MkII with assistor floats, ready for assembly.

## 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

- 4 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
- Echomax Radar reflector 24m<sup>2</sup>

### 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 offer a wide range of sensors, data processing modules and telemetry.

Specifications subject to change without notice

DB-300-ODAS iss B May 2009