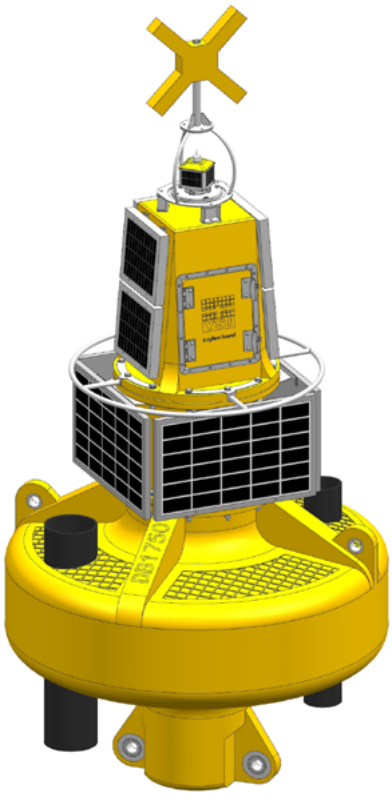
xylem
Let's Solve Water

DB1750 Metocean Buoy

FIXED WATER QUALITY, PROFILING WATER QUALITY, CURRENT, WAVE, WEATHER & NAVAID



Multi Purpose Metocean Buoy

The DB1750 has a design life of 10 years and is manufactured from UV stabilised LLDPE with a environmentally friendly polyurethane filling. Being IALA compliant, the DB1750 has been deployed globally both in a NavAid capacity and for environmental monitoring. The DB1750 provides a rugged, long life, lightweight buoy whilst reducing the long term maintenance expense typically associated with floating aids to navigation.

A few benefits of the DB1750 include:

Long-term strength and security - The float section is internally cross-braced with stainless steel rods that are connected to stainless steel bushings in mooring and lifting eyes.

UV-stabilised low density polyethylene - rotationally moulded to form a seamless hull, 12mm thick, providing more resistance to collision damage and puncture.

Stability – Achieved by filling the float section with a calculated amount of reinforced concrete as ballast.

YSI
a xylem brand

DB1750 METOCEAN BUOY

Design and Monitoring Features

Flexible Environmental Monitoring -

- Up to 6 moon pools - black or yellow (150mm or 220mm dia) for easy deployment of environmental instruments.
- Access to Top section with through a sideways opening,waterproof, locakble hatch. Top Section suitable for data logging and telemetry systems. Includes separate battery compartment.
- Up to 360W solar power capability (120W around top section and 240W around battery compartment).
- Ability to add profiling winch to existing moon pool.
- Real time data capabliity means the DB1750 is perfect aid for vessel navigation through channels, ports and harbours.

Robust Design

- A float section, battery section and a top section form an abrasion resistant, shock absorbing buoy able to withstand knocks and/or collisions.
- The float section has a moulded slip resistant surface and SS316 grip bar to provide additional safety during deployment and station maintenance.

Technical Details

Construction	Rotationally moulded in medium density UV-stabilised low density polyethylene, 12mm thick.
Filling	Polyurethane
Diameter	1750mm
Air Weight	550kg
Nominal Draft	800mm
Nominal Freeboard	425mm
Submergence	5.5kN
Focal Plane Height	2308mm
Superstructure Height	1365mm
Radar Reflector	$2m^2$
Radar Range, Nominal	3 to 4nm
Visual Area	$2m^2$
Surface Color	IALA colours
Maximum Mooring Load	950kg
Maximum Current	6 knots
Moon Pools	1 to 6 (specify at order). Yellow or Black 150mm or 220mm.

Specifications subject to change.

Recommended Moorings:

Current less than 2 knots*

Water Depth (ft)	Chain Length (Shot)	Chain Size
35	45 ft (1/2)	1 1/8 in
35-50	90 ft (1)	1 in
50-80	135 ft (1 1/2)	1 in
80-120	180 ft (2)	3/4 in
120-160	225 ft (2 1/2)	5/8 in
160-200	315 ft (3 1/2)	1/2 in

Current 2-4 knots*

Water Depth (ft)	Chain Length (Shot)	Chain Size
35	90 ft (1)	1 1/8 in
35-50	90 ft (1)	1 in
50-80	135 ft (1 1/2)	1 in
80-120	225 ft (2 1/2)	3/4 in
120-160	450 ft (5)	5/8 in
160-200	450 ft (5)	1/2 in

Current 4-6 knots*

Water Depth (ft)	Chain Length (Shot)	Chain Size
35	90 ft (1)	1 1/8 in
35-50	135 ft (1 1/2)	1 in
50-80	180 ft (2)	1 in
80-120	270 ft (3)	3/4 in
120-160		
160-200		

* Recommended Mooring are a guide only. Always have moorings design by a professional.

YSI, a Xylem brand
1725 Brannum Lane
Yellow Springs, OH 45387

+1.937.767.7241
info@ysi.com
YSI.com

Who's Minding the Planet?®

YSI.com/DB1750