



data buoy platforms



moorings



navigation buoys



hydrosphere



navigation lights



mooring buoys



installation

the UK's leading supplier of aids to navigation

Mobilis AQ 1500 & BC 1242



MOBILIS

1.24m diameter tailtube navigation buoys

The BC 1242 and AQ 1500 are small diameter buoys with a generous focal height achieved by a tailtube assembly.

The tailtube allows the buoys to remain upright in extreme weather conditions, as well as providing excellent anti-heel properties. The BC 1242 has a focal height of 2m, whilst the AQ 1500 can reach a focal height of up to 2.5m. The buoys are generally used in estuary, nearshore and inshore applications where high visibility is a major requirement.

Each model is constructed around a central galvanised steel hull structure with rotationally moulded medium density polyethylene (MDPE) floats. This results in very strong yet lightweight buoys, which can be easily handled by small craft and can be laid down on their sides by maintenance crew when working on deck.

Both the BC 1242 and the AQ 1500 are suitable for a self contained light such as the Carmanah M650 or M702, or the Vega VLB-67. The AQ 1500 also has a tower that can fit traditional solar panels / battery assembly to power a navigation light.

The buoys' modular design allows for commonality of parts, reducing maintenance, inspection, replacement and spares holding costs.

features:

- UV stabilised MDPE components - retains colour for more than 15 years
- Modular system - reduces spares holding
- Suitable for radar reflectors
- Wide range of self contained solar lights accepted
- Modular solar panel frames (AQ 1500) and self contained lights allow easy maintenance
- Extremely robust and stable
- Interchangeable parts
- Designed for ease of maintenance



AQ 1500



BC 1242

buoy configurations

Cardinal 	Lateral
Special Mark 	Safe Water
Isolated Danger (AQ 1500 only) 	

navigation buoys

Mobilis AQ 1500 & BC 1242

specifications and applications

construction

Central Structure	Galvanised steel
Hull	MDPE (AQ 1500 has 4 float sections, BC 1242 has 2 float sections)
Tower / Daymark	Marine grade aluminium or MDPE
Topmark	Marine grade aluminium

physical

	AQ 1500	BC 1242
Diameter m	1.24	1.24
Mass Kg	500	380
Max Ballast Kg	150	100
Max Kg	650	480
Gross Buoyancy Kg	1500	900
Reserve Buoyancy Kg	850	420
Focal Plane m	2.5	2.0
Draft m	2.2	1.3
Overall Height m (exc. topmark)	5.4 - 5.7	3.3

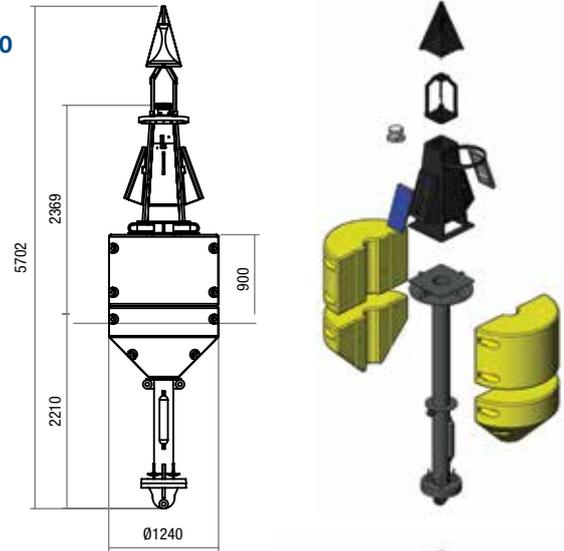
application

Inshore	✓
Estuary	✓
Coastal	✓
Offshore	

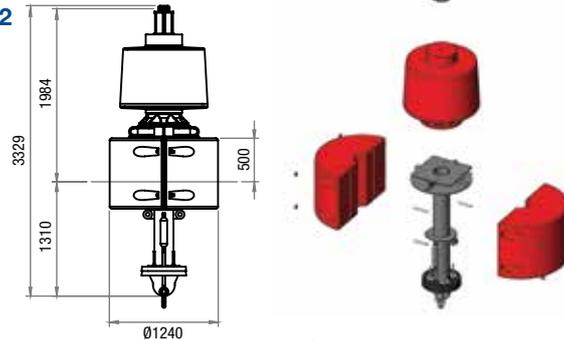
mooring

Type	Single Point
Chain mm	16 - 25
Sinker Kg	1000 - 2000

AQ 1500



BC 1242



the right buoy for the job

To make sure you get the right buoy for your requirements consider all the factors that will affect the visibility and stability of the mark including: depth of water; sea conditions and current; lighting and range of light required; shape and topmarks; and focal plane.

mooring tips:

The mooring is an integral part of the system that will affect the performance and reliability of the buoy. On problematic locations we recommend a detailed mooring study be carried out to maximise reliability and minimise future maintenance costs.



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about Hydrosphere

Hydrosphere is the UK's leading supplier of aids to navigation and has been providing cost-effective solutions to the marine industry for more than 20 years. We offer a wide range of navigation and mooring buoys, LED navigation lights, sector lights, rotating beacons, leading lights, jetty masts, beach and zone marking products and associated moorings. Rental, installation and maintenance services are also available for all our products and systems.

For more information please contact us.

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Compliant with all IALA recommendations.

