



Applications

Pharos Marine/Automatic Power's comprehensive range of IALA compliant light buoys includes the PM-1800. The PM-1800 has won worldwide acceptance as an effective yet inexpensive light buoy for marking channels or hazards. The robust construction of the buoy enables it to withstand minor knocks and collisions without damage. The design and construction of the buoy has been based on proven experience in the supply of buoys all over the world.

Construction

Because it is made of rotationally moulded Polyethylene, the PM-1800 combines the advantages of low weight, great strength and easy maintenance. It is UV stabilised and self-coloured red, green, black or yellow, and is available with topmarks or daymarks. Closed cell foam filling gives extra rigidity and also makes it virtually unsinkable. The buoy has four lifting eyes and two or four mooring eyes and all steelwork is stainless steel grade AISI 316

Benefits

The skirt keel allows the PM-1800 to be used even in shallow waters and can also be stood upright on deck of a maintenance vessel. Its slotted configuration reduces underwater pressure and forces causing lateral pull vortices in fast currents.

Batteries are contained in an easily accessible watertight compartment in the upper part of the buoy. Below the waterline, the buoy is ballasted to ensure stability.

With a total weight of only 410 Kg including ballast, and a diameter of 1.75 meter, the PMP-1800 is an exceptionally easy-to-handle buoy.

Options

- Various Electric Lanterns can be fitted.
- Up to four Solar Panels (10-80 watts each) can be fitted flush to the buoy tower with bird scarers.
- Wireless synchronisation of buoy pairs or all buoys in a channel is available and ripple effects down a channel etc can be created.

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PMP-1800 ROTATIONALLY MOULDED BUOY TECHNICAL DATA

Model Type	:	PMP-1800 Rotation Moulded Buoy
Construction	:	Rotationally moulded using Borealis linear polyethylene with UV Stabilisation
Foam Filling	:	Polyurethane (Polystyrene on request)
Diameter	:	1.75m
Height of Buoy excluding accessories	:	2.8m
Focal plane height using Octahedral radar reflector and 155mm lantern (optional 700mm extension to increase focal plane.	:	3.6m
Height to Lantern Base Above water line	:	2.37m
Draft	:	0.43m
Freeboard	:	0.82m
Submergence	:	24.8kg/mm
Visual area, without daymarks	:	1.76 ²
Visual area with daymarks	:	3.6m ²
Weight Excluding moorings Battery, radar reflector and lantern	:	400 Kg
Weight, Including radar reflector Lantern and two Batteries approx	:	470 Kg
Maximum mooring load	:	1,000 Kg (to maintain 0.4m freeboard)
Maximum current	:	6 Knots
Colour	:	Red, Green, Yellow, Black To IALA Standards

Exposure to seawater, chemicals and ultraviolet radiation.

Consult Pharos Marine for recommended moorings

Specification – Technical

Material (Plastic)	:	RG7243
Foam Filling	:	Polyurethane (Polystyrene on request)
Material (Stainless Steel)	:	AISI 316
Buoy Body Thickness	:	9.5mm
Maximum Water depth Using 12 mm moorings	:	12 mm Chain = 100 m 25 mm Chain = 28 m (Based on using length 3 x Water Depth)

Usual Wave Conditions

Metacentric height with 60Kg	:	0.67 m
Minimum natural roll period	:	2.5 sec