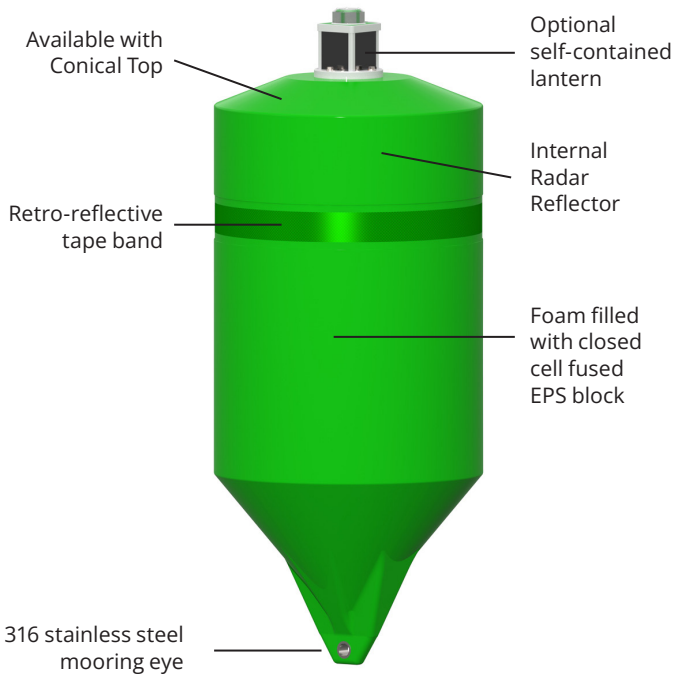
TDL-0.90M-C
Can and Conical Buoy

The TIDAL™ 0.90m CAN buoy is economical and highly visible. Available in CAN and CONICAL versions, it is ideal for marking channels. The CAN version is used extensively as a Regulatory Buoy with a large area for messages to mariners and high visibility.

KEY FEATURES

- High Visibility Marker Buoy
- Rugged Polyethylene Construction
- Ideal for deeper water and coastal swells
- Threaded inserts for attaching solar powered lantern
- 100% Recyclable after a long service life



MANUFACTURED TO LAST

Virgin colour compounded UV-20 polyethylene designed and tested to provide long-lasting colour fade and impact resistance. Completely foam filled to prevent water ingress if the buoy is damaged.

INTERNAL RADAR REFLECTOR

The upper section of the buoy contains a 24m^2 RCS (avg) large internal radar reflector that Coast Guard clients have confirmed has a 1.15+ NM range.

LARGE MOORING CAPACITY

The conical shaped hull performs well in coastal swells and storms, the large diameter and reserve buoyancy are suited to deeper water deployments.

COLOUR CONFIGURATION

Available to meet the requirements of all IALA Colour / Configuration Recommendations with top marks and self-contained lanterns.

RECYCLING AND REUSE

All TIDAL™ buoys are manufactured solely with materials that are readily recyclable; items like the radar reflector are designed and secured so they can be re-used. Call to discuss how you or TIDAL™ can recycle your buoys.

NORTH AMERICA: 1-877-446-3337
INTERNATIONAL: 1-506-633-7850

IALA

info@tidalmarine.com
www.tidalmarine.com

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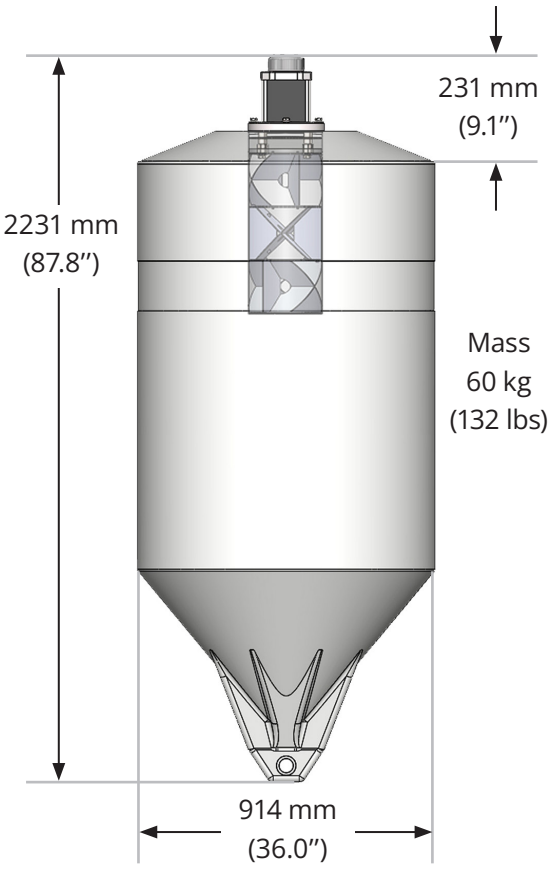
GENERAL SPECIFICATIONS		
Diameter	36.0 in	0.91 m
Height	78.7 in	2.00 m
Mass	132 lbs	60 kg
Hull Floatation Volume	34.7 ft^3	0.982 m^3
Submergence (Freshwater)	36.8 lbs/in	6.56 kg/cm
Max. Mooring & Ballast Mass (Air Weight)	661 lbs	300 kg
Min. Mooring & Ballast Mass (Air Weight)	331 lbs	150 kg
Draught (at Min. Mooring Mass)	29.4 in	0.75 m
Reserve Buoyancy (at Maximum Mooring Mass)	728 lbs	330 kg

PERFORMANCE SPECIFICATIONS		
Focal Plane Height (at Min. Mooring Mass)	57.5 in	1.46 m
Visible Height (at Min. Mooring Mass)	57.5 in	1.46 m
Visual Area / Surface (at Max Visible Height)	10.5 ft^2	0.98 m^2
Distance of Recognition (at Max. Visible Height)	0.87 NM	1.62 Km
Radar Range	1.15 NM	2.13 Km
Internal Radar Reflector (RCS: Peak / Average over 360°)	24 m^2	

MATERIAL SPECIFICATIONS		
Topmark	Conical top version available	
Buoy Hull	Virgin MDPE with UV20 protection package	
Wall Thickness	3/8 in	10 mm
Foam Filling	Closed cell EPS fused in situ block	
Mooring Eye	316 stainless steel	
Colours	Compliance with IALA Recommendation R0108	
IALA Compliance Testing	Independent laboratory test results available	
Colourfastness Test Procedure	Xenon Arc Accelerated Weathering per ASTM D-2565	
Colourfastness Testing	Independent test results avaliable per ASTM D-2244	
Product Life Expectancy	15 - 20 years	
Warranty	5 years	



Mooring Line Design

- Mooring design to optimize the performance of each buoy.
- Advanced 3D dynamic analysis of the mooring line and buoy.
- Supply of custom mooring lines with proven components.
- Catenary, inverse-catenary, chain, and synthetics.

Our advanced modelling software can perform dynamic analysis of the interaction between the mooring line and the buoy in normal "operating" conditions to assess and optimize buoy performance. Importantly, this dynamic analysis is also used to assess performance across a range of "survival" conditions.

We carry a wide range of self-contained and externally powered lights for navigation buoys from world leaders such as Sabik, Sealite, Ekta, and Vega.

Depending on the size and use of the buoy, we offer options such as AIS Type I or Type II, Remote Monitoring & control, and on-board solar power systems.

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PERFORMANCE SUMMARY