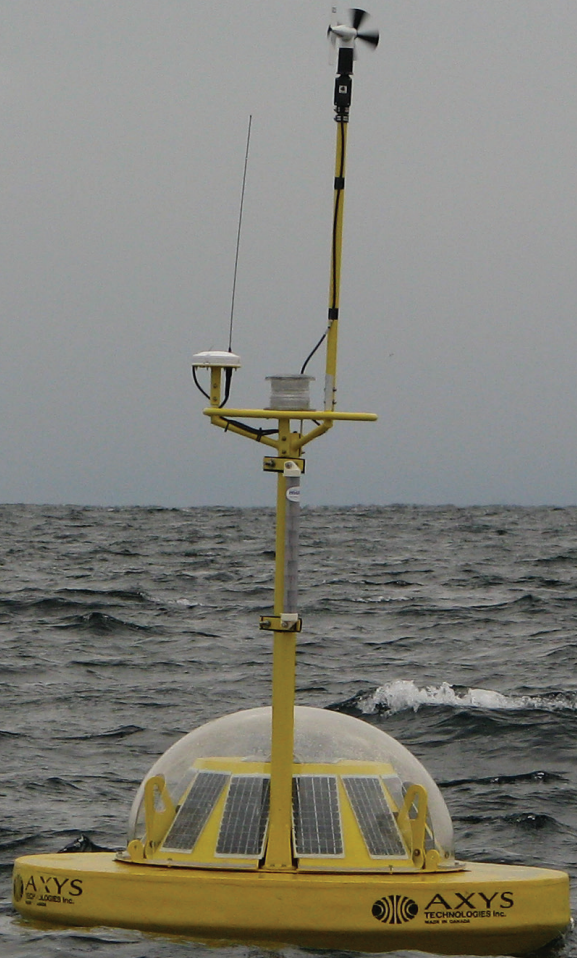


# WatchMate™

## FEATURES & BENEFITS:

- Real-time meteorological, oceanographic and water quality data
- Multipurpose platform with hull size & mast options
- Easy to deploy and service
- Expandable to allow new sensors
- Supports a variety of telemetry options
- Monitor and control from your office



WMTB 1.8 DM

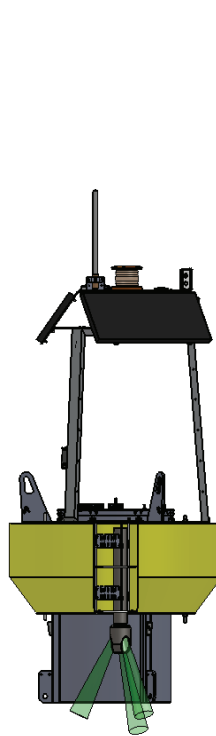
The ideal data collection buoy for lakes, reservoirs, rivers, canals and coastal waters



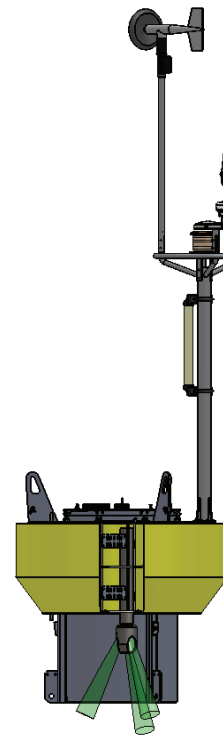
# APPLICATIONS

- weather forecasting
- oceanographic research
- environmental monitoring
- marine and coastal engineering
- marine traffic safety
- climate studies

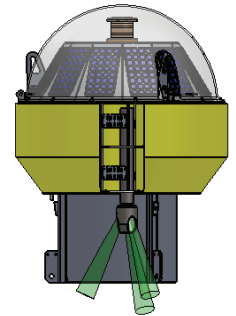
STANDARD MODELS	HULL SIZE	MAST
WMTB 1.2T	1.2m	Met Tower
WMTB 1.2M	1.2m	Met Mast
WMTB 1.2D	1.2m	Dome



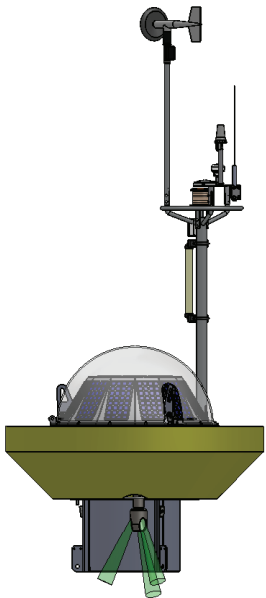
Specs:  
 - 1.2 m Foam Hull  
 - 2 Moonpools  
 - Met Tower  
 - 3 x 20 W Solar Panels



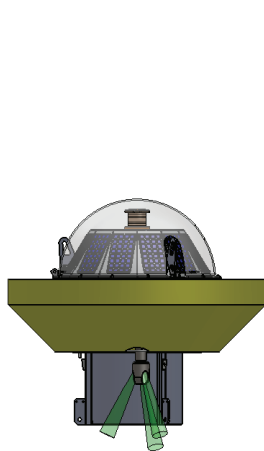
Specs:  
 - 1.2 m Foam Hull  
 - 2 Moonpools  
 - Met Mast



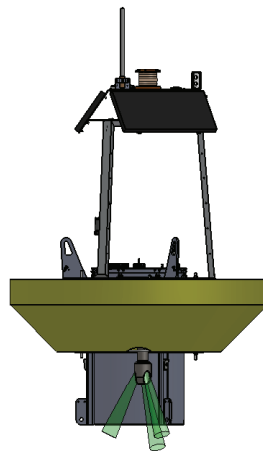
Specs:  
 - 1.2 m Foam Hull  
 - 2 Moonpools  
 - 12 x 6 W Solar Panels  
 - Protective Dome



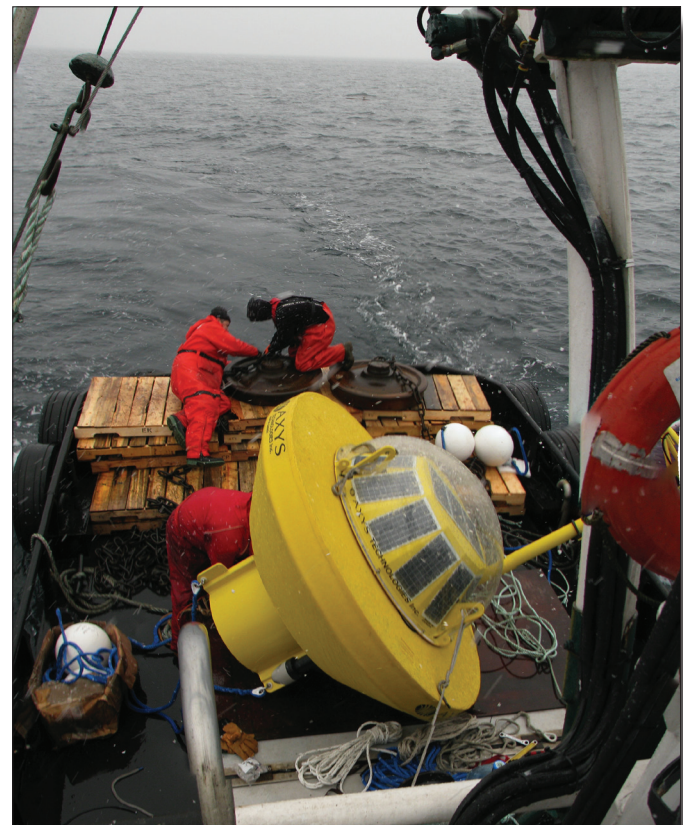
Specs:  
 - 1.8 m Foam Hull  
 - 2 to 4 Moonpools  
 - Met Mast  
 - 15 x 6 W Solar Panels  
 - Protective Dome



Specs:  
 - 1.8 m Foam Hull  
 - 2 to 4 Moonpools  
 - 12 x 6 W Solar Panels  
 - Protective Dome



Specs:  
 - 1.8 m Foam Hull  
 - 2 to 4 Moonpools  
 - Met Tower  
 - 3 x 20 W Solar Panels



WMTB 1.8DM deployment

STANDARD MODELS	HULL SIZE	MAST
WMTB 1.8DM	1.8m	Dome + Met Mast
WMTB 1.8D	1.8m	Dome
WMTB 1.8T	1.8m	Met Tower

*The WatchMate™ buoy uses the AXYS WatchMan500™ processor to provide desktop to sensor monitoring and control.*

# WATCHMATE™ BUOY

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WatchMate™ is the ultimate multipurpose buoy. The AXYS proprietary hull design features a welded aluminum hull surrounded by a molded ionomer foam ring for superior buoyancy and durability. The rigid aluminum superstructure is bolted securely to the hull and is designed uniquely for freshwater and marine monitoring applications. With multiple hull size options and three superstructure options, the WatchMate™ is a rugged, lightweight environmental monitoring buoy that maintains the requirements for a navigational aid.

The superstructure is fitted with a solar panel array, navigational marks and lights as well as mountings for meteorological sensors, payload and telemetry hardware. The aluminum substructure of the WatchMate™ hull houses the WatchMan500™ controller, solar rechargeable batteries and TRIAXYS™ directional wave sensor. Additionally, the buoyancy ring has been retrofitted with easy-to-service moonpools used to house downward facing current profilers and/or in-situ water quality sensors. This attention to detail in the field serviceability of the WatchMate™ makes it an ideal system for technicians worldwide.

The WatchMate™ can be outfitted with a wide range of sensors for monitoring weather, air, water quality, waves and currents, among other parameters, in coastal areas, lakes, reservoirs, and rivers.



WMTB 1.2T WatchMate™ Buoy



*Setting the Standard for Operational Performance*

# SPECIFICATIONS

- **HULL CONSTRUCTION**

Welded aluminum hull with foam buoyancy ring. One watertight central compartment for electronic payload, batteries and sensors. The substructure of the hull is constructed of ionomer foam for superior buoyancy and durability.

- **FINISH**

Powder coated

- **BALLAST**

Integrated into mooring bridle

- **WEIGHT**

Typical 1.2m: 285kg

Typical 1.8m: 475kg

- **BUOY DIMENSIONS**

1.2m, 1.8m or larger

- **MOORING**

Inverse catenary, chain, semi-taut, or false bottom

- **NAVIGATION MARKS AND LIGHT**

Radar reflector: Passive element reflector available

- **VISUAL AREA**

The WatchMate™ buoy can be supplied in any of the red, green, yellow and black colour configurations with appropriate top marks in compliance with internationally recognized standards for navigation buoys.

- **ELECTRONICS**

AXYS WatchMan500™ data acquisition and processing system

- **TYPICAL SENSORS**

Wind speed, wind direction, air temperature/relative humidity, solar radiation, barometric pressure, wave height, direction and period, current speed and direction, GPS, compass, CTD and radiation.

- **WATER QUALITY SENSORS**

Conductivity (salinity), chlorophyll, fluorescence, dissolved oxygen, pH, radiometer (water colour), turbidity, water temperature and depth, nutrients.

- **SENSOR MOUNTS**

Meteorological, oceanographic and water quality sensor mounting designed for servicing in the field.



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