

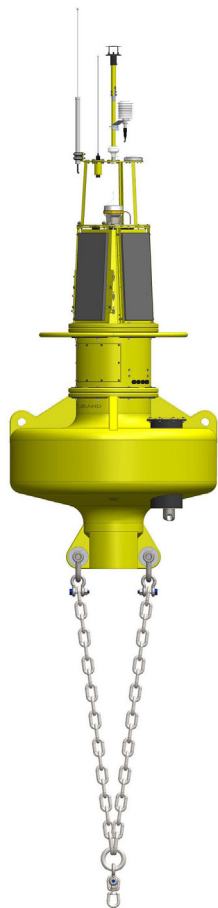


AXYS TECHNOLOGIES INC.

WATCHKEEPER™ Met Ocean Buoy



The WatchKeeper™ Met Ocean Buoy is a versatile data collection buoy for large lakes, rivers, harbours, and coastal water deployments.



FEATURES & BENEFITS

- » Real-time meteorological, oceanographic and water quality data
- » Low operational costs
- » Easy to deploy and service
- » Expandable to allow new sensors
- » Supports a variety of telemetry options
- » Monitor and control from your office



WATCHKEEPER™

Met Ocean Buoy

The WatchKeeper™ hull is a rugged, lightweight environmental monitoring buoy that maintains all the features and requirements for navigation aids.

The WatchKeeper hull is based on an SB-138P Sentinel® buoy constructed of medium density UV stabilized polyethylene rotationally moulded to form a seamless 9.5mm thick hull filled with polystyrene foam. Colour pigment is blended into the polyethylene eliminating the need for painting. These buoys are in use worldwide as navigation aids.

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

WatchKeeper™ is the standard lightweight, environmental monitoring buoy used by Environment Canada.

Specifications

- **HULL CONSTRUCTION**
Rotationally moulded polyethylene. Internally cross-braced with stainless steel rods and connected to stainless steel bushings in the mooring and lifting eyes to achieve maximum long-term strength. The hull is also filled with expanded polystyrene foam at 16kg/m³ to prevent water ingress in the event of hull damage.
- **FINISH**
Colour pigment blended into polyethylene. No painting required.
- **BALLAST**
Concrete (internal)
- **WEIGHT**
Approximately 540Kg loaded with typical sensors, WatchMan500 payload and batteries
- **DIMENSIONS**
1.7m diameter
Anemometer height 3.3m
- **MOORING**
Inverse catenary, chain, semi-taut, or false bottom
- **NAVIGATION AIDS**
IALA standard lamp
Radar reflector
AIS transponder
- **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, radiation and water quality sonde.
- **TELEMETRY OPTIONS**
 - UHF/VHF
 - INMARSAT IsatData Pro
 - IRIDIUM
 - GPRS/HSPA
 - CDMA/EVDO
- **POWER**
Fully solar powered. Four 35W solar panels, 400 to 500 amp hour battery capacity.
- **POSITION**
GPS package indicates whether buoy is on-station
WatchCircle Alarm Position Verification

Applications

- Weather forecasting
- Oceanographic research
- Environmental monitoring
- Marine and coastal engineering
- Marine traffic safety
- Climate studies

