

MOTUS Wave Buoy



COLLECT RELIABLE ENVIRONMENTAL DATA WITH MOTUS WAVE BUOY

The MOTUS (movement in Latin) Wave Buoy is a perfect solution for collecting environmental data in coastal areas. The platform used for collecting data is the robust Tideland SB-138P Aids to Navigation (AtoN) buoy which has proven to be an excellent platform for providing high accuracy and reliable meteorological and oceanographic data.

The MOTUS Wave Buoy can effectively combine various Hydrological and Meteorological parameters. Basic parameters as wind, waves and currents can easily be expanded to include sensor packages with different water quality sensors.

Data is controlled and synchronized by the data management systems that Xylem Analytics offers which also controls and powers the real time communication. This provides a low power efficient system offering long-term deployment capabilities.

The MOTUS Wave Buoy combines the ultra-low power and field proven solutions we have from developing oceanographic and water quality sensors, as well as 60 years of experience operating in AtoN to provide you with an optimal platform based on the SB 138P buoy, a rugged lightweight polyethylene buoy deployed in more than 40 countries all over the world. By selecting Xylem as your partner in your projects, you are on track for the lowest overall cost of ownership and a versatile platform that can be tailored to your needs. The MOTUS Wave Buoy is developed for both scientific and commercial use.

APPLICATIONS

- | | |
|--------------------------|------------------------------|
| Aids to Navigation | Oceanographic Research |
| Dredging | Offshore Windfarm Monitoring |
| Environmental Monitoring | Structural Engineering |
| Harbour Monitoring | Weather Forecasting |



MOTUS Wave Buoy Solutions



METEOROLOGICAL MEASUREMENTS

Wind, atmospheric pressure, air temperature, humidity.



AIDS TO NAVIGATION

Radar reflector, Lanterns, E-NAVCON, RACON, AIS Transponders



REAL-TIME DATA DELIVERY

GeoView, Storm Central, general interface to 3rd party data delivery solutions



WAVE MEASUREMENTS

Wave direction, wave height, external or internal compass, correction for buoys made of magnetic material.



WATER QUALITY SENSORS

Dissolved Oxygen, pH, Temperature, Conductivity, Salinity, Turbidity, Chlorophyll, Blue-Green Algae and Hydrocarbons



DATA MANAGEMENT

SmartGuard, Storm logger, 3rd party logger



TELEMETRY OPTIONS

4G modem, AIS, VHF/UHF, radio, iridium, GOES



CURRENT DIRECTION AND SPEED

Broadband Doppler Current Profiler, Z-pulse single point current sensor



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