

WISE BUOY

WEATHER INFORMATION SYSTEM - METOCEAN BUOY





The A+D WISE BUOY - Weather Information Systems is an extremely reliable and versatile tool for safer offshore or marine operations. WISE BUOY can be used to collect data when planning operations, to increase the safety level during critical operations and can also be used to collect data for later analysis for statistics purposes as well as storing data for incident and accident investigations.

Weather conditions is the main limiting operational and safety parameter when operating many specialized offshore vessels. Weather critical operations such as passenger transport, heavy lifting, cable laying and others are often delicate or dangerous operations.

Accurate Weather Monitoring during such operations can increase the operational window significantly. It can be the main factor leading to a successful operation.

The WISE BUOY can be configured to many different applications. It can also be combined with other A+D MetOcean products to a complete customer specified package. Meteorological and oceanographic forecasting can be added and integrated as an extra feature.



WISE BUOY OVERVIEW: BUOYS FOR OPERATIO

Typical sensor configurations

- Meteorological sensors:
 - Wind Speed and Direction
 - Wind Profile, 200 meters (under development)
 - Air Temperature
 - Air Humidity
 - Barometric Pressure
- Oceanographic sensors:
 - Current Speed and Direction
 - Current Profiler, short range
 - Current Profiler, long range
 - Wave Height and Period
 - Sea Temperature
 - Conductivity
 - Water Quality parameters
- Motion parameters (6 DOF)
- Magnetometer
- Drift Off Alarm
- **Dimensions**: L=2374mm, W=1012mm, H=3000mm
- Weight: 350 kg
- Displacement: 1050 L





The WISE BUOY concept has been specifically developed as a exceptionally flexible with regards to sensor portfolio, power su Iridium satellite modem for remote users. The amount of data an can be connected in a network in order to get as complete and fle

All user interfaces are very user friendly and can be set up to a storage and reporting. Local Wifi HotSpots can be set up to allow

NAL SUPPORT DURING CRITICAL OPERATIONS



WISE BUOY main advantages

- Well proven design in rough offshore conditions
- Easy deployment with many mooring options
- Can be towed to site by a small vessel
- Easy and flexible handling
- Lightweight and transportable
- Extremely robust, heavy duty hull, will withstand rough conditions
- Unsinkable floatation material
- User configurable design. Sensors can be changed or added very easily
- Versatile sensor platform for local or remote users
- UHF radio or Iridium satellite communication for maximum user flexibility
- Graphical User Interface (GUI) software for PCs, app's for tablets or smartphones. Wifi networks / HotSpots can be established for multiple users
- Low power consumption for long term operation

In extremely robust sensor platform for operational support during weather critical operations. The concept is upply design, set up and operation. It can transmit data over a UHF radio modem for local users and / or over id update rates can easily be set to suit specific operations or user requirements. Several buoys or other sensors exible data packages as possible.

Il kinds of display systems, from mobile phone or tablet APPS to complete PC software with options for data v multiple users to see the data from each unit.

Typical application examples:









Typical users / applications

- Wind farm installations, O & M
- Heavy lift operations
- Heavy transport operations
- Vessels in transit
- Pipe laying vessels
- Cable laying vessels
- Seismic vessels
- Towing operations
- Diving and ROV operations
- Harbour and Pilot information
- Fisheries information services
- Coast Guard operations
- Military operations

Typical display examples, these can be tailor-made to each application or made user configurable:



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