



Wave sensor at a wind farm



Wave sensor on a vessel

General Datasheet

Monitoring waves by radar

Observator offers a wide range of Radac and Miros dry-mounted wave sensors for offshore wind, the oil and gas sector and for vessels. Mostly these wave sensors are part of our Helideck Monitoring Systems.

These highly accurate wave radars has proven itself for many years. These easy to use, reliable and robust sensors are particularly suited for the extreme conditions offshore.

Depending on the project, we're able to monitor accurate and real-time wave height, significant wave height, water level (tide), maximum wave height, mean wave period, surface current and direction (option) peak period and wave direction (option).

Features

- Maintenance free
- Re-calibration is not required
- Easy installation, low maintenance cost
- Measuring at 10 Hz
- Network connected
- Real-time data access locally or remotely
- Up to 5 years of internal data storage
- Suitable for all weather conditions
- Explosion-proof certified (as an option)

General weather is a major risk factor for offshore operations. Wave and tide data are of great importance during all stages of offshore wind farm development and operation. Knowledge of the present site conditions assists the crew in determining an optimum weather window during which operations can be performed safely. This increases operational efficiency, reduces costs and prevents workability discussions.

Real-time wave monitoring provides essential information for (jack-up) vessels during offshore operations. Jacking operations, crane operations, towing and such are typically limited by a maximum wave height of two meters or even less.

Motion-compensated wave monitoring

The onboard wave radar measures the waves as they are encountered by the ship itself. This data is ideally used to determine the operational limitations of the vessel in all conditions. Therefore, the efficiency of the operations will be boosted while the costs are kept low (compared to water-based solutions). Besides, a vessel in transit can adjust its speed and course to avoid critical headings.



Tide measurement in a harbour

Accurate real-time wave and tide data allow for:

- Increased operational efficiency
- Maximized use of weather windows
- Safe personnel transfer
- Safe access to platforms from service/supply vessels
- Safe jacking operations
- Safe arrivals and departures in harbours

Accurate real-time wave data on the ship allow for:

- Safe deployment of (under)water equipment
- Logging wave data for insurance and/or contract purposes
- Passenger comfort
- Monitoring the actual wave load on a vessel to determine lifetime
- FPSO's for safe supply while anchored
- Support for safe helicopter transfer



Ex-proof wave sensors

Welcome to the world of Observator

Solutions beyond expectations. That's what sets Observator apart. We believe in taking the extra step. Retaining our competitive edge, through innovation and uncompromised support, are key to success. As an ISO 9001:2015 certified company, we apply the highest quality standards to our products and systems.

Since 1924 Observator has evolved to be a trend-setting developer and supplier in a wide variety of industries. From instruments for meteorological and hydrological solutions, air and climate technology, to high precision mechanical production, window wipers and sunscreens for shipping and inland applications.

Solutions beyond expectations

Originating from the Netherlands, Observator has grown into an internationally oriented company with a worldwide distribution network and offices in Australia, Germany, the Netherlands, Singapore and the United Kingdom.

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