

Maritime Observation System AWS430

Product Spotlight

Offshore accuracy down to the last detail

Offshore maritime operations are demanding even in good weather, but as professionals know, adverse weather is normal on the sea and perfect conditions are a rare occurrence. The critical impact of weather and ocean conditions on offshore operations makes reliable environmental monitoring a vital tool for ensuring operational efficiency and crew safety.



Key benefits

Multi-sensor data gathering that measures wind speed and direction (relative wind, true wind, upwind), atmospheric pressure, air temperature, and humidity.

Advanced operator software with a real-time data display, reporting tools, and warning alarms to enable better informed decisions during critical weather situations.

Modular design allows easy integration of additional sensors and quick replacement of individual components, which reduces downtime and overall operating cost.

Automated operation and self-diagnostics continuously collect all sensor data and perform data quality and sensor status check for superior reliability.

Why Vaisala?

Weather and environmental insights are the greatest catalysts for successful maritime operations— from sensors to systems and digital services, Vaisala provides actionable insights that empower stakeholders to confidently meet challenges and harness new opportunities.

Our globally trusted maritime weather solutions enable remarkable efficiency gains, digital transformation, the protection of people and investments while supporting sustainable and responsible operations.

We are scientists and explorers driven by passion, relentless curiosity, and the desire to create a better world. Backed by 85+ years of unmatched scientific leadership, our solutions increase maritime weather awareness and drive innovation.

Vaisala Maritime Observation System AWS430 is an automatic weather station designed for offshore maritime environments such as ships, FPSO vessels, and ocean platforms. With third-party sensor options that include oceanic observations, it provides the robust, real-time information necessary to make the complex weather and oceanic condition calculations required for safe, efficient offshore operations.

The system is also designed to withstand the salt, moisture, extreme temperatures, vibrations, and impact shocks that are a daily part of working at sea.

Applications

- Monitoring air and sea conditions for effective coordination of supply vessels, helicopters, and other operational support traffic.
- Gathering detailed offshore condition information to inform early warning and safety protocols.
- Providing accurate wind and helideck stability data to ensure safe airborne operations.
- Capturing weather and oceanic conditions to support offshore wind farm operations.
- Monitoring conditions to ensure safe offshore maintenance operations.

