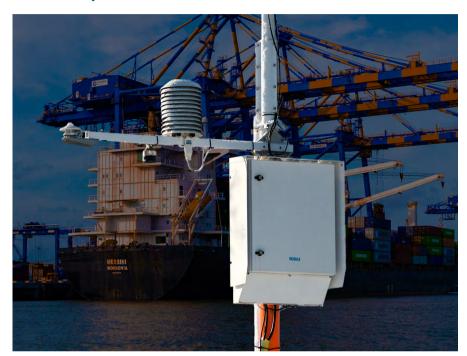# Automatic Weather Station AWS310
The complete solution for reliable onshore weather measurements

Weather itself can be unpredictable. The quality, consistency, and reliability of data shouldn't be. The Vaisala Automatic Weather Station AWS310 is built to deliver accurate, real-time weather information for effective short- and long-term forecasting and monitoring of developing severe weather conditions. It's as close to a set-it-and-forget-it solution that you'll find.

Vaisala AWS310 is a complete communication and weather observation solution that automatically measures, processes, and stores meteorological data. It includes sensors, electronics, telemetry, power supply, and mast — everything needed for a variety of maritime weather monitoring and forecasting applications.

The AWS310 can be customized to specific applications and operated as a stand-alone unit, or as part of a larger terminal weather observation network. With its ease of maintenance and the long-term Vaisala partnership and support you can depend on, the AWS310 is a powerful tool and an exceptional value over time.

Key benefits

Unmatched accuracy, reliability, and efficiency
The AWS310 is built on the proven dependability of Vaisala sensor technologies and is specifically tailored for long-term, automated weather data collection.

The highest data quality and availability
The AWS310 design emphasizes environmental durability along with built-in power and data capture redundancies — so you get your data no matter what.

The right data delivered the right way
Data can be analyzed remotely using optional NM10 software that facilitates data sharing, visualization, export, and more.

Simplified monitoring and maintenance
A maintenance interface lets you remotely view station information, including sensor status and readings. It also lets you set site-specific parameters and perform many other functions from an off-site, remote location.

A single source for multiple uses
The AWS310 bundles together all the essential port and coastal weather observations, creates meteorological calculations and reports, displays real-time data, and saves history files for operational review.

AWS310 at a glance

Applications

- Ensuring safe onshore helideck operations with real-time wind and weather condition monitoring.
- Facilitating real-time port and coastal weather forecasting and accurate tracking of severe weather.
- Improving severe weather warnings and protocols to help minimize risk and maximize operations.
- Supporting operational planning and safety protocol reviews through stored long-term weather data.
- Real-time monitoring of critical warning states such as storms and river or tide levels.

Measurements

- Wind speed and direction
- Air temperature
- Relative humidity, dew point
- Precipitation
- Solar radiation
- Visibility and present weather
- Cloud height and sky condition
- Ground temperature and moisture
- Snow depth
- Water level
- Water temperature
- Salinity (optional)
- Sea current (optional)
- Wave height (optional)
- Water quality (optional)

Key features

Automatic, real-time quality control that tests sensor data against minimum and maximum climatological limits and changes between successive measurements.

Centralized remote monitoring and control of a single AWS site or full network through Vaisala's NM10 web-based interface.

Long calibration intervals with minimal on-site configuration for reduced maintenance costs and minimal downtime.

WMO-compliant sensors designed for professional maritime use that deliver validated data and measurement consistency.

Resilient structure and backup systems providing uninterrupted functionality for communications, data storage, and system memory.

Why Vaisala?

Experience with perspective

Building on more than 80 years of experience, Vaisala has a unique understanding of weather measurement that has made us a trusted leader in maritime and aviation weather observation solutions. The unique technologies we offer are the result of our own R&D, and our solutions and services are used in environmental monitoring systems, helideck monitoring systems, and marine weather reporting worldwide. Our extensive expertise and global presence — with solutions in more than 120 countries and all seven oceans — makes us your global maritime weather expert.

Support you can count on

Vaisala offers lifetime support for all AWS systems, including accredited calibration services, training, and technical support. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

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