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Product Spotlight

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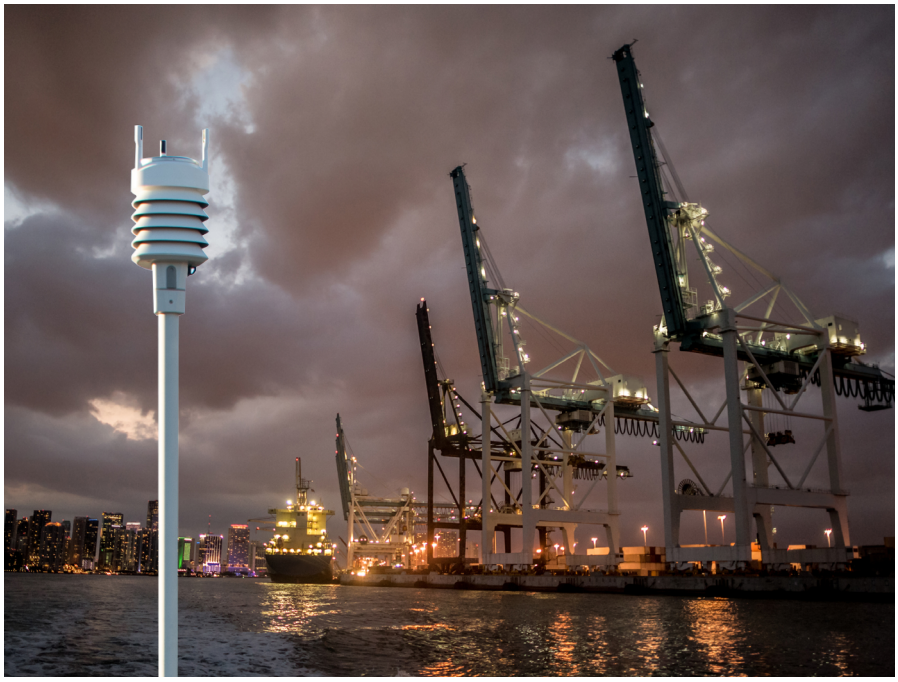
Vaisala Beacon® Station

Harness the power of hyperlocal weather intelligence for your port operations



Weather is the key determinant of safe, efficient port operations that requires accurate, localized nowcasting and forecasts. Vaisala Beacon Station is a powerful plug-and-play weather station that provides measurements, data collection, and data visualization in one compact environmental monitoring solution that enables operators to monitor conditions around their port.

Vaisala Beacon Station is a first-of-its-kind solution designed to provide weather data on conditions specific to your port. It accurately captures wind speed, wind direction, air pressure, temperature, humidity, and rainfall data for a localized area and delivers it via a secure, wireless data transfer for effective forecasting and planning. Its durability and reliability deliver exceptional ROI with an unmatched affordable cost of ownership.

This compact environmental monitoring solution allows you to quickly blanket your port with an easily scalable network of weather monitoring stations. With wireless, cloud-based data communication that doesn't require any data infrastructure, it can be installed even in remote locations and hard to access areas. The Beacon Station delivers the hyperlocal data needed for the quality observational data necessary to keep your port operations running safely and at peak efficiency.

Key benefits

Easy to install, simple to use

Beacon Station sets up in just 15 minutes with minimal configuration. Simply install, connect wirelessly and start gathering data instantly.

Secure and reliable

Industry-leading system security and reliability enables a secure gateway between Beacon weather stations and existing observation networks for unprecedented data protection.

Unmatched accuracy, reliability, and efficiency

It's built on the proven dependability of Vaisala sensor technologies specifically engineered for harsh conditions.

Quality data you can trust

State-of-the-art sensors provide highly accurate data on six key weather factors for ports that is levels beyond the competition: wind speed and direction, air pressure, temperature, humidity, and rainfall.

Beacon Station at a glance

Applications

- Ensuring safe operations with real-time wind and weather condition monitoring.
- Facilitating real-time weather observations
- Improving severe weather alerts and protocols to help minimize risk and maximize operations.
- Supporting daily-based operational planning and quicker operational restarts after storms

Key features

Accurate, high-quality data from proven, trusted Vaisala sensors

Compact, easy-to-deploy package suitable for localized and remote locations

A scalable platform that extends from a single, compact station to a system-level solution

Secure data transfer via encrypted wireless data transfer and integrated SIM card local buffering

Remote access and service with secure data communication

Flexible power options that include solar and AC versatility

Data visualization and open API for third-party integrations

Why Vaisala?

Experience with perspective

Building on more than 80 years of experience, Vaisala has a unique understanding of weather measurement that has made Vaisala 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 over 120 countries and all seven oceans — make 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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