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Product Spotlight

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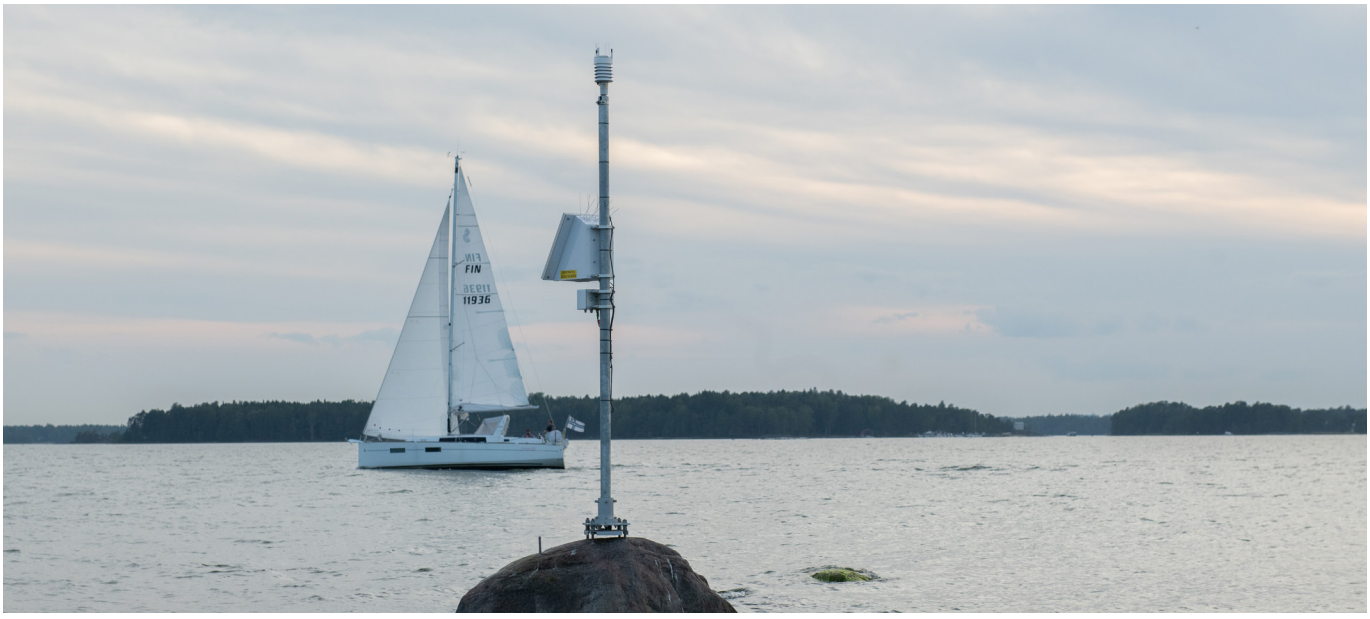
Vaisala Connected Compact Station BWS500

Fill the gaps and future-proof your observation network with effective and accurate weather forecasts



Accurate and reliable weather data is the cornerstone of forecasting. As meteorological institutes look to improve and fill gaps in their weather observation networks, new challenges are emerging in connectivity, efficiency, and simplicity. Today's technology demands a solution that provides integration and data security without compromising accurate weather observation data.

Connected Compact Station BWS500 is a first-of-its-kind offering that leverages an innovative and modern weather and environmental intelligence platform.

The world's first plug-and-play weather station, BWS500 is a compact environmental monitoring solution that provides measurements, data collection and data visualization in one package. True mobility and connectivity allow you to quickly fill observation gaps in urban areas and in locations that are hard to access.

The compact solution is suitable for a variety of applications and can be scaled to support both small and large-scale weather observation networks.

Key benefits

Easy to install, simple to use

15 minutes to set up, instant data availability. Includes plug-and-play configuration with reliable, durable components in a low-maintenance package.

Secure and reliable

Industry-leading system security and reliability enables a secure gateway between BWS500s and existing observation networks for unprecedented data protection.

Quality data you can trust

State-of-the-art sensors provide best-in-class measurements of key atmospheric parameters.

Integration and scalability features

Enables true hybrid network design and unlocks the use of both reference-grade and professional-grade equipment together.

Key features

- Compact, mobile solution for various weather observation and research applications
- Extends from a single compact weather station to a system-level solution
- High-quality measurement of key parameters: air pressure, temperature, humidity, rainfall, wind speed and wind direction
- Solar panel powering for installation at remote locations
- Remote access and service with secure data communication
- Data visualization and open API for third-party integration

BWS500 enables true hybrid weather observation network design. Its open API configuration, smart connectivity and cloud data processing unlock the use of both reference grade and professional grade equipment — on premise and in the cloud.

The accurate measurements provided by BWS500 turn into reliable and secure data that can be applied to dense networks, providing hyperlocal data to improve observation quality and forecast accuracy.

Future-proof effective and accurate weather forecasts – and fill the gaps in your observation and forecasting services with maximum efficiency.

Why Vaisala?

Legendary quality and dependability

We believe in the relentless pursuit of quality and performance, anywhere and everywhere. Our expertise is built on more than 80 years of highly accurate observations. Weather-critical organizations — from the North Pole to the South Pole, from the ground to NASA on Mars — trust Vaisala to deliver a full service offering for measuring the weather.

Support you can count on

With our deep understanding of the challenges faced by meteorology and weather decision makers, you can count on Vaisala for dependable support, training, and project management based on best practices. With decades of experience providing the best technologies and expert know-how, Vaisala's philosophy of partnership is unmatched in the industry.

Trusted weather observations for a sustainable future

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