

Beam Weather Station for Hydromet

VAISALA

Product Spotlight

Providing trusted weather observations for a sustainable future

Providing a unique combination of insights for improved local hydrometeorological awareness

Local hydrometeorological observations are essential for the authorities to be better prepared for extreme weather events such as heavy rain and flooding. Supplementary observations via Beam weather station can improve overall weather and hydrological insights and help in data driven decision making.



Key benefits

A flexible, scalable platform that extends from standalone to a system-level network using accurate and reliable Vaisala sensors

Key measurements including weather parameters, carbon dioxide (CO₂) and the six most important air pollutants

Additional compatible measurements can include solar radiation, water and snow depth, and visibility and present weather

Compact, easy-to-deploy package suitable for a wide variety of locations

Versatile integration and connectivity using your own system or use Vaisala cloud services for selected measurements

Secure data transfer via encrypted wireless data transfer

Remote access and service with secure data communication

Data visualization and open API for third party integrations

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

Vaisala Beam Weather Station

BWS500 is a powerful, flexible and compact hydrometeorological weather station that provides key measurements for timely and accurate decisions. Built to scale for your needs, Beam Station is perfectly suited for supplementary hydrometeorological measurements and monitoring.

Wirelessly and securely transfer the measurements data directly from Beam Station to your own system. Deploy as a standalone station or create a network of several stations for valuable insights on the most important weather and environmental parameters.

Get accurate insights for multiple applications

- Suitable for numerous hydrometeorological applications where there is a need for a local and specific weather or hydrological observation point. Ideal for data-driven decision making and early warning preparedness to ensure the safety of communities and infrastructure

Start now with simple & flexible setup

- Quick to set up with a wide variety of sensors. Install and relocate on existing infrastructure like street poles, overhead bridges or on a standalone mast to easily fill observation gaps

Choose your connectivity and communication

- Flexible communication and data transfer options let you choose the setup that works for you. Use Vaisala or your own SIM card for connectivity, and view station locations on a map

Rely on uncompromising accuracy & security

- Professional grade sensors provide reliable and accurate data from a wide variety of locations, while best-in-class data security protects your weather and environmental network and data from modern threats

