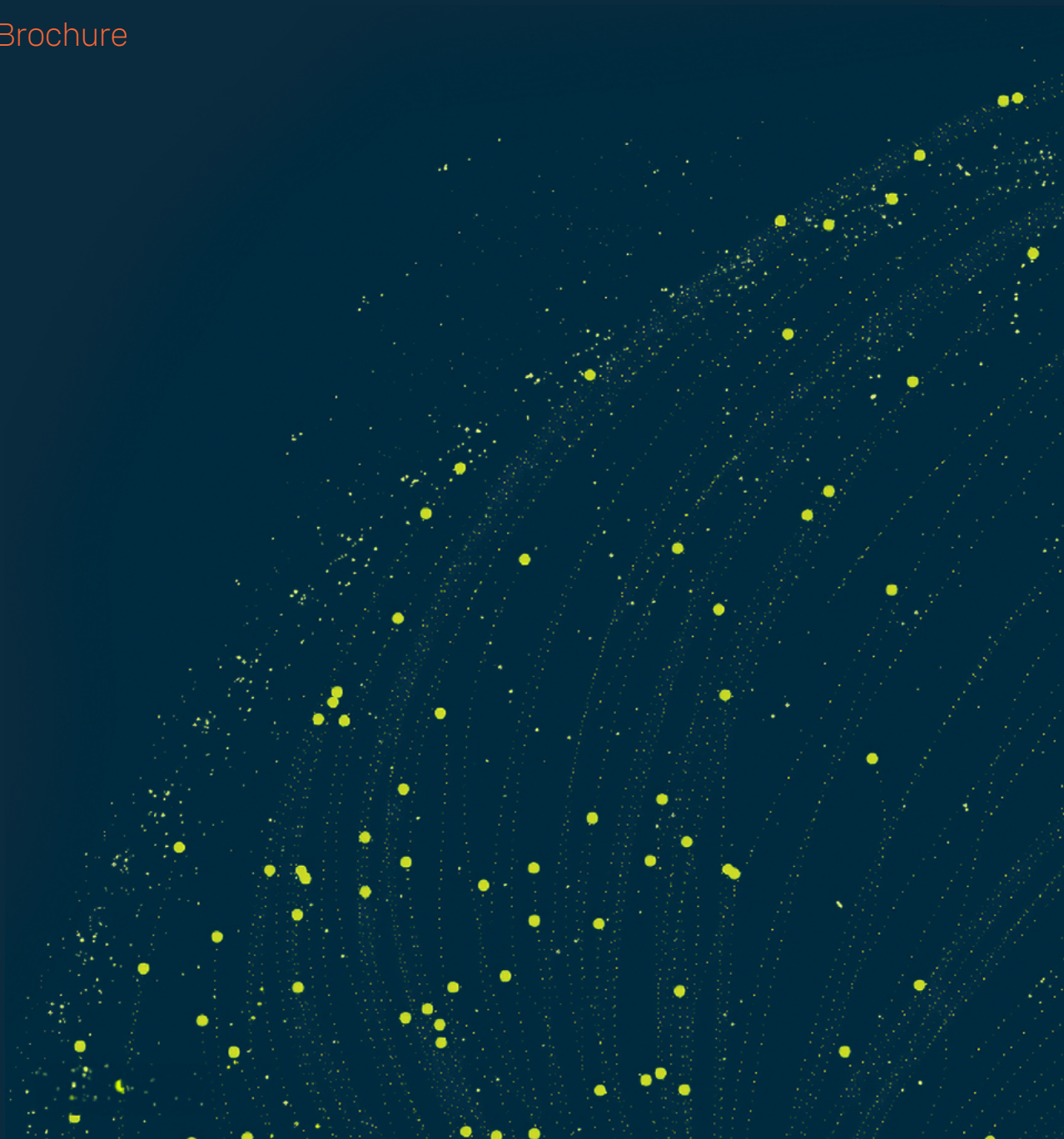


VAISALA

GBON-compliant instruments and intelligence

Solutions Brochure



True weather resilience begins with accurate and reliable meteorological observations



Providing trusted weather observations for a sustainable future

The Global Basic Observing Network (GBON) is a worldwide network of weather stations and observing systems that provide essential meteorological data for weather forecasting, climate monitoring, and research purposes. The Systematic Observations Financing Facility (SOFF) provides long-term financial and technical assistance to promote the collection and exchange of essential weather and climate data in compliance with GBON.

The goal of the combined GBON SOFF initiative is to ensure that every nation and small island developing state has access to the weather and

climate observations needed for early warnings and true resilience against the increasing challenges of severe weather that threaten lives and property.

Through 85+ years of weather measurement expertise and innovation, our future-proof and GBON-compliant solutions have stood the test of time and the harshest of environments to become the industry's most trusted – in 170+ countries, from the North Pole to the South Pole and on Mars. Our meteorological observation instruments are also fully ISO 14001 and ISO-9001:2015 certified.



True sustainability

We strive for sustainability in everything we do – from environmental stewardship in our buildings and manufacturing processes to the longevity of our products. This means you can depend on Vaisala for real solutions that outlast the elements. That’s what we call future-proof.

Vaisala received the Carnegie Sustainability Award in 2022 acknowledging both sustainable business practices and the positive handprint of the business, generated by Vaisala’s products. Moreover, Sustainalytics addressed Vaisala’s ESG Risk Rating to be 9.6 (negligible risk), which means placing in the 5th percentile in the electronics equipment industry.



Products: Long lifetime, low maintenance and low consumables save materials and ensure strong performance through the most extreme operating environments



Support: Our worldwide network of local service partners keep your operations running smoothly even as technology and your needs evolve



Buildings: All of our manufacturing facilities run on 100% clean energy



Manufacturing: We reduce waste and reuse materials at every opportunity



Case study: Preserving Macchu Picchu

Find out how the National Weather Service of Peru is protecting this UNESCO World Heritage Site from seasonal threats of heavy rain and forest fires with a network of automatic weather stations.

GBON SOFF compliant instruments and intelligence

Vaisala has a long history of technology integrated in World Meteorological Organization (WMO) networks. Safeguard your 10-year SOFF compliance-phase funding by meeting GBON station operational requirements, including sensor availability, quality observations, and data-reporting frequency. All of the offerings below comply with GBON tender specifications for AWS and upper-air stations.

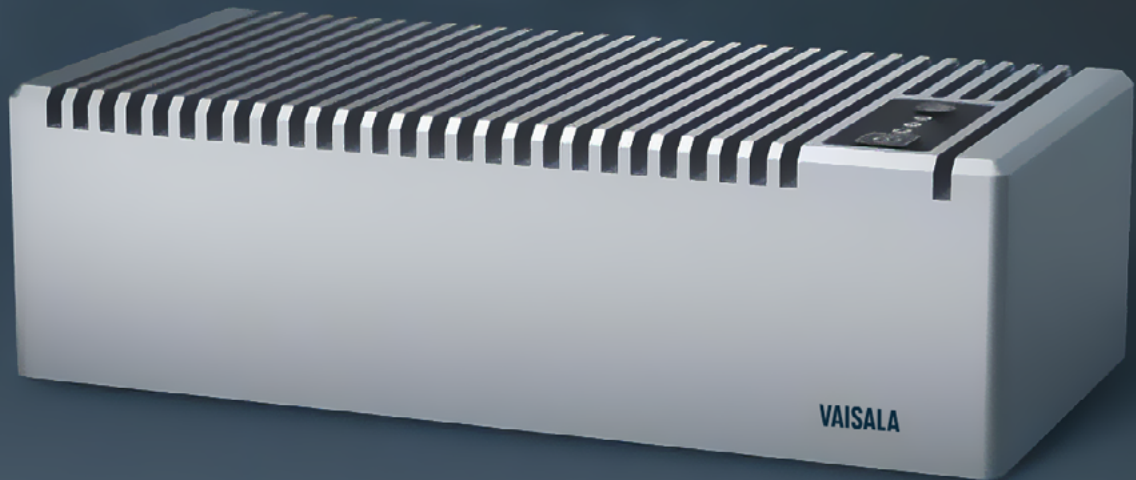
Vaisala Automatic Weather Station AWS810 enables modern, high-quality surface weather observation networks anywhere in the world. This comprehensive measurement, communication and data monitoring solution makes modern observation networks easy to create, manage and maintain over a long lifespan.

[Learn more about AWS810](#)



Vaisala Cirrus® Sounding System MW51 is the modern standard for receiving, processing and visualizing data from world-class Vaisala radiosondes for the most accurate upper-air observations – critical to global weather observations, forecasts and climate studies.

[Learn more about MW51](#)



Vaisala Upper Air Radiosondes RS41 and RS41 E-models provide upper air weather measurement data including temperature, humidity, pressure, and wind speed and direction, even in the most demanding weather conditions. RS41 is the most widely used as the GRUAN reference grade radiosonde, and our RS41 E-models are the industry's first to use 66% less plastics with uncompromising performance.

[Learn more about RS41 and RS41 E-models](#)



Vaisala Autosonde® AS41 works seamlessly with Radiosondes RS41 and RS41 E-models, and provides round-the-clock sounding data even in the harshest conditions and most remote locations. AS41 saves more than 1,800 staff hours each year compared to a manually operated sounding station.

[Learn more about Autosonde AS41](#)



Comprehensive training

Improving national resiliency by properly applying weather observation solutions can save billions of dollars and thousands of lives. To ensure the sustainability of your investment, our comprehensive solutions include products, full system delivery, training, and maintenance support for even the most demanding environments and applications.

Vaisala experts work with you to understand your needs and your operating environment to design the right complement of instruments and intelligence so you can protect what matters.

Our training services set you up for success from the very beginning, and we make sure your team is equipped with knowledge and confidence. Should questions arise after implementation, our global network of local service providers can support you whenever and wherever you need it.





Case study: Early storm warnings from Ireland for Europe

Read this unique story of how the Irish national meteorological service worked with Vaisala to deploy the Autosonde AS41 in a harsh climate, even during the middle of a worldwide shutdown.

Key benefits of Vaisala GBON-compliant instruments and intelligence

- Gold standard observations
- One-stop-shop approach
- Robust, low maintenance design
- Industry-leading data security
- Comprehensive training
- Local, 24/7/365 support

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.

