

WindCube

VAISALA

Product Spotlight

The industry standard lidar for accurate, bankable wind data

WindCube® is the most flexible, proven and accurate wind measurement technology available. It is well-suited for various environmental conditions and supports continuous measurement campaigns throughout all project phases. A highly refined, mature technology, WindCube provides unrivaled wind measurements and truly is a gold standard in the industry.



Key benefits

Built with WindCube Insights – Fleet included. This cloud-based, customer-oriented interface displays data and monitors performance.

WindCube supports all terrain types, thanks to embedded Flow Complexity Recognition (FCR) and CFD modeling.

WindCube demonstrates low classification uncertainty and limited sensitivity to environmental variables as per IEC 61400-12-1, Ed.2

Fast, in-field communications and data transfers are made possible by 3G or 4G routers.

WindCube includes Vaisala PTH sensor WXT535 for accurate environmental measurements and increased reliability.

Why Vaisala?

We are innovators, scientists, and discoverers who are helping fundamentally change how the world is powered. Vaisala elevates wind and solar customers around the globe so they can meet the greatest energy challenges of our time. Our pioneering approach reflects our priorities of thoughtful evolution in a time of change and extending our legacy of leadership.

Vaisala is the only company to offer 360° of weather intelligence for smarter renewable energy, nearly anywhere on the planet. Every solution benefits from our 85+ years of experience, deployments in 170+ countries, and unrivaled thought leadership.

Our innovation story, like the renewable energy story, continues.

WindCube helps optimize financial performance, increase efficiency and maximize energy output – providing the bankable data needed for reducing measurement uncertainties in Energy Yield Assessments to secure funding while minimizing project risk. It is suitable for permanent wind monitoring or temporary applications such as Wind Resource Assessment with little or no environmental footprint and no safety risks.

Backed by 20+ years of wind lidar expertise and unparalleled global service, WindCube has been third-party validated in hundreds of independent studies and across thousands of customer deployments. It is fully IEC-classified and accepted by all international standards and guidelines.

Windcube®: The gold standard

WindCube is the iconic and trusted gold standard in wind lidar. The turnkey product suite offers innovative, reliable, and highly accurate solutions for thousands of customers across the globe. Borne from a passion to advance the field, WindCube continues to take wind energy ever higher through a commitment to four guiding principles:

- Trustworthy, superior metrology
- Innovative lidars from a one-stop shop
- Unrivaled thought leadership
- Easy, reliable global solution

Applications

Supports all phases of a project lifecycle:

- Site prospection
- Wind resource assessment
- Site suitability and calibration
- Continuous wind monitoring
- Power Performance Testing (PPT)
- Grid-loss compensation
- R&D applications

