

VAISALA

Trustworthy, superior metrology

WindCube manufacturing, validation,
and certification practices

Standards of excellence

WindCube® lidars are backed by the best science and metrology, and validated by the most demanding testing and certifications in the industry.

Meeting the latest and most rigorous international verification standards, including ISO9001, all WindCube products are compliant to the latest IEC standards, and we have longstanding, fruitful partnerships with more than 20 leading research institutes worldwide.

Each WindCube vertical profiler unit we make is validated against a Golden Lidar and shipped with a document of validation issued by DNV. Vaisala owns several Golden Lidars, which helps us ensure speed and continuity. Our Golden Lidars are certified every two years across more than 20 key performance indicators, and this process is applied for more than 10 years.

We also offer a validation continuity warranty for the WindCube vertical profiler, which enables users to maintain IEC-compliant validation during repair or maintenance, as well as a pre-validated, off-the-shelf purchase option that can save up to two months of deployment time. Existing customers can efficiently upgrade to the latest enhanced and certified WindCube units.

We can maintain this high quality and operational continuity because of our global network — unique in the industry — including two factories, both of which utilize industry-level manufacturing and related practices, as well as seven fully equipped service centers. This ensures we can meet demand, provide quick and correct servicing, and leverage the most sophisticated benches, calibration tools, and related technologies.

Benefits of WindCube:

- Unmatched production and verification speed, reducing lead time while achieving full traceability and quality
- High certainty in verification results
- Universal and terrain-insensitive processes
- Complete verification across heights, turbulences, wind direction, and signal strength

Selected certifications



DTU Wind Energy
Department of Wind Energy

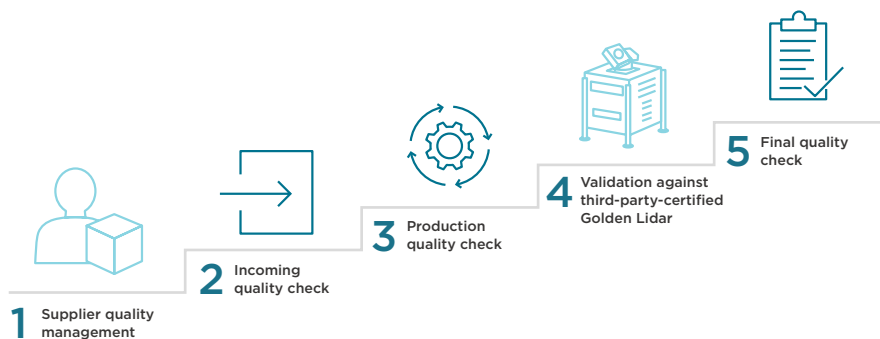


WINDGUARD
Certification



Industry-level value

Vaisala is committed to stringent industry-level manufacturing and servicing practices, meaning that we apply consistent, rigorous quality-control and testing protocols to each lidar unit and component.



This includes using a unique set of benches and soft tools for manufacturing, testing, and calibration. Many of these are patented by us and enable accelerated production while ensuring higher and more uniform quality. For example, as each lidar unit makes its way through the process, it passes through more than 150 electro-optical control points, with more than 60 controlled wind parameters.

Whatever your needs, location, or project type, you'll benefit from from Vaisala standards.

Why Vaisala for renewable energy?

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 weather and environmental monitoring solutions for renewable energy are guided by several key priorities:

- Thoughtful evolution in a time of change
- Making renewable energy smarter at every stage
- Extending our legacy of leadership

Vaisala is the only company to offer 360-degree renewable energy solutions — from sensors and systems to digital services and actionable intelligence — nearly anywhere on the planet (and even on Mars). Every Vaisala solution benefits from our 85+ years of experience, pioneering deployments in 170+ countries, and unrivaled thought leadership.

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

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windcubelidar.com



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