



Aviation weather solutions

/ BRIDGING THE GAP BETWEEN WEATHER AND AIRPORT OPERATIONS



VAISALA

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For more information, visit www.vaisala.com or contact us at aviationsales@vaisala.com

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VAISALA

Vital needs – comprehensive solutions

Safety – and efficiency

For every airport, safety is the primary concern, but keeping everything running on schedule under all circumstances is also of vital importance. With this in mind, the role weather plays in aviation accidents, incidents and delays can hardly be overstated. For example, in the USA, weather is responsible for 21% of aviation accidents and 76% of all airport delays.*

**NASDAC/FAA and NOAA/NWS/The COMET Program.*

The ever-shifting variable: weather

A range of weather parameters, including barometric pressure, temperature, relative humidity and wind, directly affect an airplane's flying characteristics. In addition, specific weather conditions such as thunderstorms, low visibility, wind shear, heavy rain and icing can cause challenges not only for pilots but also for entire airport operations.

An airport committed to safety and efficiency is aware of weather's impact on its operations. Making use of available weather information in all critical airport operations will allow the complex business of air travel to proceed safely and efficiently.

Minimizing weather's impact

Accurately observed, analyzed and communicated weather information helps the various players in an airport to make the right decisions at the right times. To ensure the optimum use of this information, it should be accessible to – and used by – all those whose roles are affected by weather. For example, efficiently managing ground handling under the

threat of a thunderstorm, or safely directing air traffic during a wind shear event, cannot be achieved without accurate weather information.

Vaisala knows weather and airports

Over the years Vaisala has grown from being a supplier of weather instruments to delivering automated weather observing systems.

Today, we focus on solving our customers' challenges by providing comprehensive solutions that support decision making in weather-critical operations. As a result of this, Vaisala has become the preferred choice for leading airports when they need solutions that can be relied on.





Solutions to meet your challenges

Your airport faces unique challenges related both to its surroundings and prevailing weather conditions. Vaisala's expertise lies in matching your airport's operational tasks with the right solution based on our decades of experience.

Worldwide presence

We have successfully delivered more than 1,800 projects in more than 90 countries worldwide, which means you can rest assured that we understand prevailing local conditions and issues such as climate, infrastructure and culture. Wherever you are located, we can be there to take care of your specific needs.

Decades of expertise

35 years of developing aviation weather solutions have taught us that safety is a continuous effort. Developing into a leading expert has required in-depth interaction with our customers to solve a wide range of challenges. Over these decades we have accumulated the necessary know-how while continuously learning together with our customers.

The comprehensive solution to your weather-related challenges

AviMet® – a solid foundation to build on

Vaisala aviation weather solutions for airports are based on the AviMet® platform. These user-specific solutions are developed based on customer needs and wishes, with particular attention given to intuitive user interfaces and easy to interpret information. It is likewise important to note that accurate and reliable local measurements form the foundation for any weather-critical decision support solutions. Vaisala sensors and systems adhere to all relevant recommendations and regulations of the ICAO, WMO and the FAA.

Bridging the communication gap

AviMet® allows the meteorological data to be integrated into any ATC, airport-wide service or maintenance system. It is also possible to integrate data from other airport systems and make it available through AviMet® applications anywhere at the airport.

Responsive to your changing needs

AviMet®'s scalable, modular architecture allows you to build solutions adapted to your unique needs, whether you operate a regional airport or category III hub airport. Solutions based on our common platform are easy and economical to upgrade and update. Therefore, the system you buy today can be extended to cover your evolving future needs.





Deeper understanding – better results

Your airport is unique. Shouldn't your solutions be?

At Vaisala, we are committed to solving our customers' challenges in ways that add value. This means that we're not just experts in measuring meteorological phenomena. Our 35 years of experience in providing reliable and highly customized weather solutions mean that we are also skilled in meeting each customer's specific operational challenges.

The advantages of a true weather solution provider

All the products and services we provide are under Vaisala control. And the use of the AviMet® platform for all our solutions ensures that future expansions and upgrades can be implemented without any problems or inconvenience. Combining our unique understanding of weather measurement and long experience in delivering complex solutions saves your organization time and money – and adds an extra layer of confidence.

Life-cycle support – there when you need us

Vaisala is committed to maintaining the productivity of our customers' investments. We are engaged from the beginning of your investment planning through the life-cycle of the operations. Whatever your challenges – we are there for you.

Field-proven by the industry's best – you

Vaisala annually delivers systems and solutions to more than 100 airports. We have a strong reputation for completing our projects to the full satisfaction of our customers. This is reflected in our many customer relationships that started 20–30 years ago and are still growing and developing.

Vaisala – right at the heart of it.

Curiosity, the desire to meet challenges and an extraordinary ability for innovation are at the heart of the company – both past and present. Through the years our expertise has grown to include three business areas:

Controlled Environments serving industrial customers whose primary interests are in operational quality, productivity and energy savings.

Meteorology serving national meteorological and hydrological institutes whose primary interests are the safety and well being of people and the safeguarding of property.

Weather Critical Operations serving operators and authorities whose primary interest is the safety and effectiveness of operations under all weather conditions.

Curious? Learn more about Vaisala at vaisala.com

