

**VAISALA**

# Vaisala AviMet®

Complete aviation weather management

Solutions Brochure





Your mission is to ensure safe and efficient takeoffs and landings in ever-changing weather conditions. This is no small feat. It requires accurate, real-time weather data at your fingertips – without disruption, even during the harshest conditions.

Vaisala AviMet® is a scalable, highly configurable aviation weather management solution suitable for any airport, any geography, and any climate. It seamlessly integrates a wide range of world-class sensors, observation systems, remote sensing devices, and data to support better decision-making and improved safety. And it gives users confidence that they are providing the right information to the right stakeholders, at the right time.

### Any airport, many purposes

AviMet combines assessments of wind, visibility, cloud height, pressure, lightning, windshear, precipitation, runway surface conditions, and more to produce real-time reports and alerts that guide air traffic controllers, pilots, ground personnel, and other users. Its sensors are designed specifically for aviation and chosen based on the unique needs of an airport. The core system can therefore be scaled all the way from small uncategorized airports to the largest CAT III hubs.

By bringing together advanced sensor and system algorithms with accurate weather observations and reporting, AviMet enables comprehensive situational awareness of the weather within and above the boundaries of the airport. As a result, it supports many different uses in aviation:

- Aeronautical meteorological reporting and forecasting
- Air traffic management and control
- Pilot decision-making
- Runway condition management and reporting
- Airport ground operations

The AviMet solution and its sensors conform to all relevant ICAO standards and recommendations, as well as WMO regulations and guidelines.



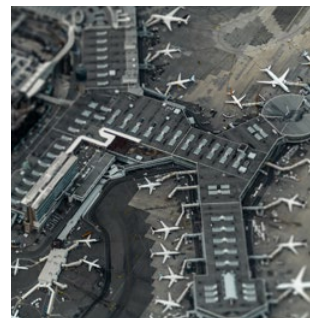
### Obtaining value from data

Accurate observations and advanced algorithms → Safe, efficient operations

Reliable systems → Continuous operation

Complete situational awareness → Correct, timely actions

Proven long-term support → Long-term value, low life cycle cost



# Built for aviation, adaptable for any airport

AviMet ensures low life cycle costs and allows for comprehensive situational awareness of airport weather at all times, since all sensors and systems are developed and supported by the same vendor. AviMet makes weather data available in the most user-friendly way.







Furthermore, Vaisala's decades of experience and unmatched applied-science knowledge ensure that as airport needs evolve, AviMet integrates new systems, sensors, and upgrades seamlessly.

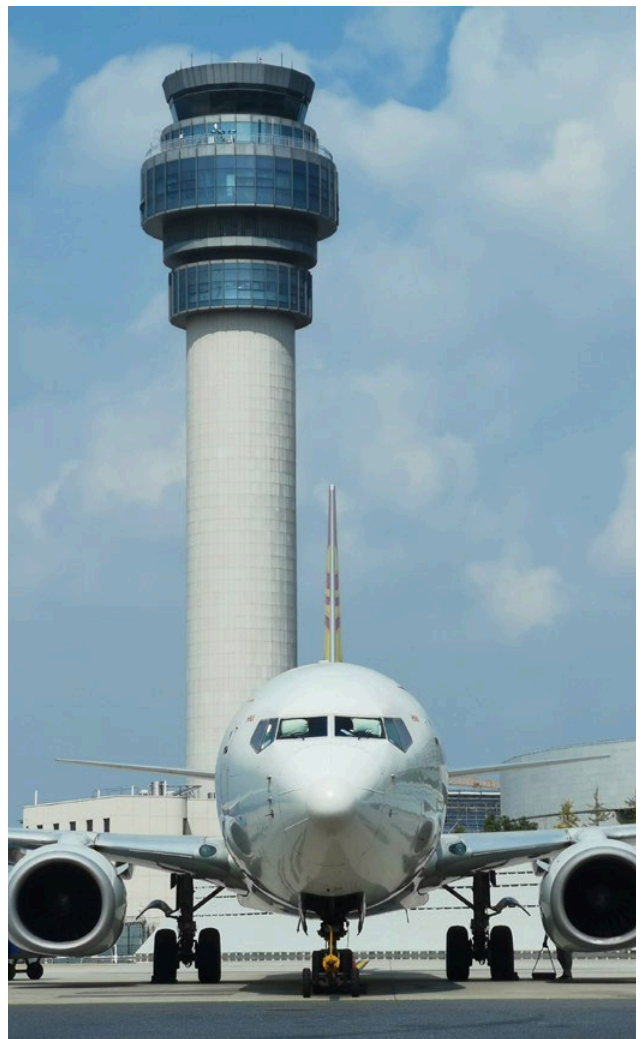
## Building the right solution

Vaisala is trusted throughout the industry for our service, in-house application and systems expertise, project management, and ongoing support. Here's how we build each AviMet solution and ensure airports get just what they need.



## Project Flow

- 1.  Verify the airport's specific weather needs and challenges
- 2.  Design the appropriate AviMet solution
- 3.  Manage system assembly, delivery, and training
- 4.  Install and commission the system
- 5.  Maintain and verify performance
- 6.  Provide ongoing support and partnership for the life of the system





# Vaisala support and industry leadership

Vaisala is the most experienced aviation weather company in the world, and the AviMet suite of solutions is built on more than 50 years of aviation experience. It is trusted in more than 160 countries, from the Nordics to Africa, the Americas, and Asia.



**50+ years**

of aviation experience



**100+**

AviMet system and  
project deliveries  
each year



**170+**

countries served



**1,000+**

AviMet installed base

Every single flight will at some point use weather data produced by Vaisala equipment and/or forecasts driven by Vaisala sensors.



## Why Vaisala?

For over 50 years, Vaisala has been a pioneer in aviation weather technology, ensuring that every measure is taken for unparalleled safety, efficiency, and sustainability.

Our gold standard suite of solutions is trusted in more than 170 countries and over 2000 airports globally. In fact, every commercial flight around the world will use weather observations produced by Vaisala equipment or forecasts driven by our sensor measurements at some point in their journey.

With a commitment to constantly evolving our portfolio, Vaisala remains at the forefront of the industry, continuously exploring new horizons.

