

AviMet 10 aviation weather management system

Product Spotlight

Comprehensive weather intelligence for safe, efficient air travel.

Vaisala AviMet® 10 brings together best-in-class sensors, intuitive user interfaces, and multi-source data fusion designed for modern aviation demands.

Backed by 50 years of delivering trusted weather intelligence to airports worldwide, this latest evolution delivers enhancements designed to give air traffic controllers, aviation weather observers and forecasters, and airport operators unparalleled situational awareness in all weather conditions.



AviMet 10 supports intelligent decision-making critical to safe, efficient flight operations. This advanced aviation weather management solution generates real-time insights even in the most complex conditions. It empowers airport and aviation decision-makers with clearer visibility, faster collaboration, and confident responses.

Software enhancements streamline aviation operations

To deliver timely, accurate weather data, AviMet 10 delivers advanced software enhancements including a modern, browser-based interface which integrates manual and automated weather processes into a unified platform. With no dedicated workstations or proprietary software required, the system simplifies user access.

A new severity indicator ensures critical weather events are instantly visible, while drag-and-drop customization lets you tailor your interface without coding. The user experience is optimized for different operational roles, delivering clear, up-to-date information in line with ICAO regulations.

Reliable, accurate weather data

Behind AviMet 10's modern interface is Vaisala's trusted science. Multi-sensor weather algorithms combine data from multiple instruments for higher-quality reporting.

Automated weather observing system sensors provide highly accurate present weather conditions, while ceilometers generate detailed cloud coverage insights. Visibility sensors enhance reporting accuracy across changing conditions, and integration with the AviMet Windshear Alert System enables timely detection of wind hazards that can disrupt flight operations.

AviMet 10 is designed to grow with your operations

Its scalable, modular architecture and IWXXM- and SWIM-ready capabilities enable seamless integration and future-proof evolution.

Whether deployed as a simple single-server system, a resilient hot-standby two-server configuration, or a fully distributed high-availability solution with load balancing, AviMet 10 ensures the right balance of performance, scalability, and operational continuity for any airport—from regional airfields to global hubs.

Key benefits

Streamlined workflows:

Modern, unified user interfaces provide seamless access to observations and reporting that combine manual and automated processes.

Boosted decision-making and overall efficiency:

Role-based user experiences let teams see the most relevant data through purpose-built views.

Enhanced real-time situational awareness:

Weather severity indicators integrated into the observation interface improve timely decisions during changing conditions.

Exceptional accuracy and reliability:

Vaisala has been setting the standard in aviation weather systems for half a century - delivering over 2,500 aviation systems across 170+ countries worldwide. AviMet is trusted technology from small, regional airports to the world's largest and most complex.

Why Vaisala?

For 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.

