

Vaisala Automated Weather Observing Systems (AWOS)



Solutions for Your Operational Challenges.

Your weather expert.

For more than 30 years, Vaisala Aviation Weather has been recognized as a global leader in meteorological systems and environmental technology. We are not merely vendors for our customers, but partners, creating value by identifying and solving their operational challenges.

We know that safety is the key priority in aviation, and that accurate weather information is essential to operational safety at your airport or heliport. Vaisala's aviation weather solutions have been relied upon by airports and heliports worldwide for more than three decades.

Vaisala's Automated Weather Observing Systems (AWOS) help

pilots and aviation personnel make critical decisions by providing continuous, real-time reports on airport weather conditions. Having an AWOS on-site benefits your airport by allowing lower minimums on instrument approaches, increasing operational safety and making your airport more appealing to commercial operators.

Unmatched expertise

With more than 750 AWOS installations in North America, including large statewide programs, you can count on Vaisala's experience and impeccable track record. Our project managers and AWOS technicians are among the most experienced in the business, having installed the first FAA-certified AWOS in 1979. Today, the Vaisala name is synonymous with "AWOS." Because

this is our specialty, we offer a level of expertise that is second to none.

And Vaisala provides more than AWOS expertise. We are your total aviation weather solutions partner, offering state-of-the-art products as well as installation, training, support, maintenance, upgrades and ongoing consultation. Our aviation weather solutions support all aspects of airport operations that are affected by weather, including, runway maintenance operations and ground handling operations, among others.

Vaisala's unparalleled expertise in weather-related issues—including lightning and thunderstorm warning systems—means your airport or heliport will be completely supported through every weather challenge.



The Vaisala AWOS at a glance

The Vaisala AWOS generates new airport weather reports every minute from sensors located near the touchdown zone of the runway. AWOS weather reports are made available to airport personnel via displays on operator terminals, and to pilots via high quality, digitized voice transmissions using a VHF frequency, a VOR, an NDB or an existing ATIS frequency. AWOS reports are also available by telephone for flight planning.

Vaisala provides a complete line of fully certified, scalable AWOS systems, including the first FAA-certified AWOS IV system.

The Vaisala AWOS is FAA-certified and provides weather information for FAR Part 91, Part 135 and Part 121 operators. It is also eligible for Airport Improvement Program (AIP) funding.

The value of scalability, the efficiency of customization

When you choose Vaisala, you'll never have to worry about your AWOS becoming obsolete when your airport grows. Vaisala AWOS systems and solutions are designed to grow with your airport, making them the smart choice for long-term investment. All of our AWOS systems are scalable, with an open system architecture that makes upgrading and expansion easy.

Vaisala offers the best resources and capabilities for tailoring a complete solution to any weather-related challenge. Our AWOS systems can be customized to incorporate sensors that detect runway condition as well as more problematic weather phenomena such as freezing rain and thunderstorms.



About Vaisala

Vaisala sensors, instruments and systems are used the world over by organizations that need to measure the environment with great accuracy and consistency. Vaisala is an international technology company that has grown successfully since its founding in 1936.

Headquartered in Finland and listed on the Helsinki Stock Exchanges, Vaisala develops and manufactures electronic measurement systems and instruments for diverse applications covering meteorology, the environmental sciences, air and road traffic safety and general industry.

Vaisala employs more than 1,000 skilled professionals worldwide. In any given year, more than 95% of revenues are earned outside Finland.

The Vaisala Line of Fully Certified AWOS Systems:

AWOS A	Provides current altimeter setting.
AWOS I	Provides current altimeter setting, temperature, dew point and wind speed and direction.
AWOS II	Provides all AWOS I features plus visibility.
AWOS III	Provides all AWOS II features plus cloudheight and sky condition.
AWOS III P	Provides all AWOS III features plus present weather (reports drizzle, rain, snow, precipitation intensity, fog and haze).
AWOS III P/T	Provides all AWOS III P features plus thunderstorm detection (within 30 mile radius).
AWOS IV	Provides all AWOS III P/T features plus Freezing Rain Sensor and Runway Surface Condition Sensor (reports runway conditions such as dry, wet and possible freezing).

Various sensor configurations available.

First class service

To us, service means more than just providing a prompt supply of spare parts or sending a maintenance specialist to fix a problem. Service is a comprehensive partnership that actively supports your aviation weather needs for the system's entire lifecycle.

We support your AWOS system initially with project management and delivery services such as consulting, site surveying, frequency coordination, commissioning and training. After delivery and installation, we continue to proactively support you through performance optimization, modernization, operational support and maintenance.

Vaisala has a unique ability to monitor the status of every AWOS we maintain in real time. This proactive monitoring means our technicians are aware of and able to respond to maintenance problems before the customer experiences any downtime.

All Vaisala technicians are factory trained, FAA, FCC, and VSAT certified to skillfully maintain your AWOS system. Our technicians can be contacted easily for any maintenance need, and will respond quickly to ensure that your AWOS is operating at peak performance and efficiency.

The Vaisala advantage

Vaisala provides so much more than a state-of-the-art AWOS system. We provide expertise in weather sensing technology with a core focus on customer service and complete lifecycle support. All this makes us an aviation weather solutions partner you can rely on.

With a Vaisala AWOS, you not only get the assurance of unlimited scalability and unbeatable service, you can be confident of:

- Approved altimeter at your airport or heliport
- Approved and complete METAR
- Improved operational safety
- Increased availability of your facility





For more detailed contact information and for other Vaisala locations visit us at www.vaisala.com.

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