



AWOS

AUTOMATED WEATHER OBSERVING SYSTEM

The All Weather, Inc. (AWI) Automated Weather Observing System (AWOS) is a fully configurable airport weather system that collects, processes, and visually displays meteorological data. AWI AWOS can be configured to detect and collect multiple measurements of the weather at the airport. The scalable system can grow from fully automated small aerodromes up to Category IIIB. AWI AWOS systems can be placed on offshore platforms in order to reduce risk for helicopter pilots and streamline flight operations. In addition, AWI AWOS systems can be designed for coverage at airports with multiple runways.



AWI AWOS is the most versatile airport weather system available for the most efficient and safe airport operations.



Accuracy and Reliability Built for Aviation

45 years in Aviation Weather

1,200 employees dedicated to aviation

Used by US FAA & NWS

ICAO Compliant systems, sensors, and algorithms

US Federal Aviation Administration (FAA) certified systems, sensors, and algorithms
The fully configurable and scalable AWI AWOS can grow as your airport increases in size and complexity
Critical Aviation Grade Barometric pressure and optical sensors engineered, manufactured, and tested at the AWI labs and manufacturing center
1,000+ AWI AWOS systems installed and deployed worldwide.

Power and Communication Options Installation and Maintenance

- The modular design of the AWI AWOS and its built-in-test diagnostics make system maintenance highly cost-efficient.
- Optional wireless data links can eliminate expensive trenching and cable runs from the field station to the CDP.

- Solar power options available,
- The diagnostic software continually checks each sensor and module of the system for accuracy and proper operation, which aids in timely maintenance and troubleshooting.

Remote Maintenance Monitoring (RMM)

The AWI AWOS has full Remote Maintenance Monitoring capabilities.

Maintenance personnel may access the AWOS remotely, allowing diagnostic services to customers around the world.

Access to the RMM capability is password protected to ensure security measures.

MetObserver AWOS Data Display and Distribution

Collects and stores raw data, calculates derived data, generates reports, and displays data needed for decision making

The voice system, coupled with a microphone allowing input of two voice remarks, sends messages that are automatically broadcasted with the voice data from the AWOS.

Single or multiple displays allow weather to be closely monitored.

Multiple display terminals and workstations with customizable displays can be positioned in several locations throughout the airport and remote locations.

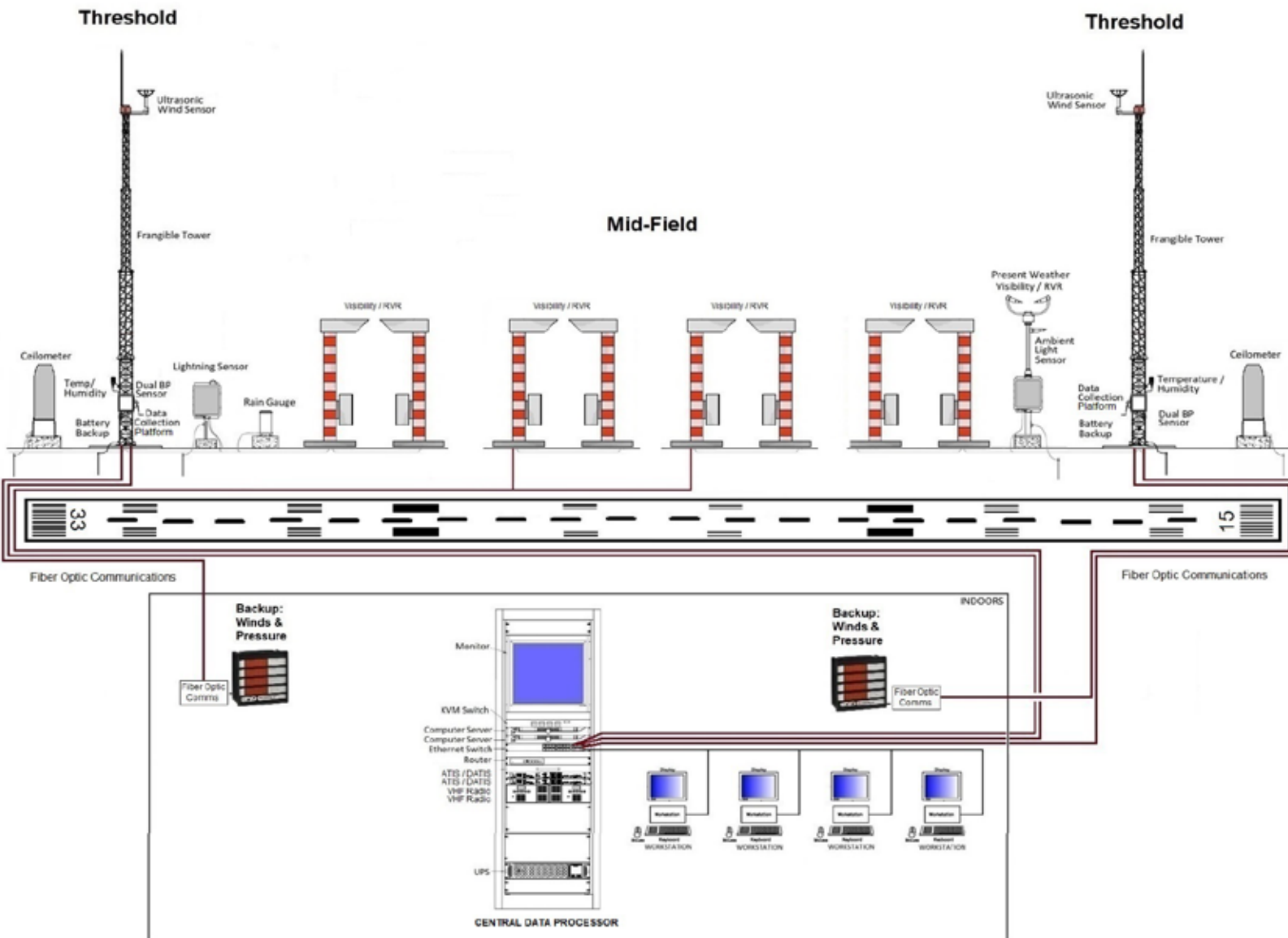
METAR, SPECI, SYNOP, MET, SPECIAL MET, and other reports can be automatically or manually generated and edited by the system according to a specified schedule.

Fully compatible with AFTN and other communications protocols such as AMHS, BUFR, and CREX.

Architecture:

AWI's Data Collection Platform (DCP) is a powerful microprocessor-based rugged computer system that collects and processes data from the airport sensors and transmits it to the Central Data Processor (CDP) via wired or wireless transmission.

The system archives collected data for up to one year at user-defined intervals and makes it available for review and retrieval.



The AWI Stand-Alone AWOS is ideal for unmanned airfields as all processing is done at the Data Collection Platform (DCP) in the field.

User interfaces and displays can be created or customized by the user to meet all display needs.



Extremely high-timing accuracy with an integrated GPS clock.

Optional hot-swap (redundant) configurations of the two CDPs provides uninterrupted service without user or technician intervention.



The Central Data Processor (CDP) processes and archives sensor data and distributes the information to displays located anywhere on the airfield or central and remote locations via web interface.

AWI AWOS sensors and parameters include:



Temperature / Humidity
combined sensor



Wind(speed and direction)
Ultrasonic or mechanical



Barometric Pressure
Aviation Grade Barometric
Pressure (up to 3 transducers)



Present Weather
Forward scatter optical
sensor



Visibility and RVR
Forward scatter optical sensor
or Transmissometer



Thunderstorm / Lightning



Cloud Height /
Ceilometer



Data Collection Platform

Notable Regulations



FAA Certified | ICAO Compliant | Over 1,000 AWI AWOS installed worldwide. | ISO 9001:2015

All Weather, Inc. is an ADB SAFEGATE Company
Contact an AWI consultant for all of your aviation needs.
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