



## **Global Sales & Support Network**

A worldwide network to help meet your needs



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# **AWOS at a Glance**

Standard categories of AWOS are listed below:

- AWOS I: Wind speed, wind gust, wind direction, variable wind direction, temperature, dew point, altimeter setting, density altitude
- **AWOS II**: AWOS I + visibility and variable visibility
- AWOS III: AWOS II + sky condition and cloud height and type
- AWOS III-P: AWOS III +
   present weather and precipitation
   identification
- AWOS III-T: AWOS III + thunderstorm and lightning detection
- AWOS III-P-T: AWOS III +
   present weather and lightning
   detection
- AWOS IV-R: AWOS III-P-T
   + runway surface condition

In addition, Campbell specializes in designing custom AWOS solutions.

Automated Weather Observing Systems (AWOS) measure and report weather conditions for aviation applications. AWOS are installed in a variety of locations, including commercial and private airports, military air bases, and heliports.

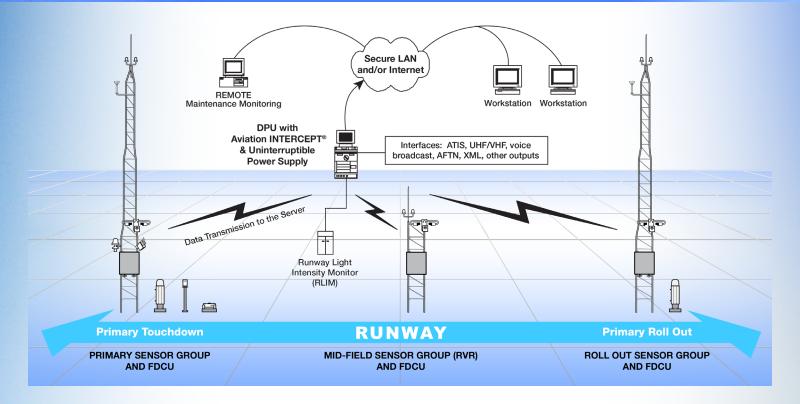
AWOS range in size and complexity, from a single weather station to a network of sensor groups on multiple runways.

A typical AWOS consists of the following components:

### **Field Meteorological Sensors**

- Wind speed and direction\*
- Barometric pressure (altimeter setting)\*
- Dew point (relative humidity)\*
- Air temperature\*
- Visibility
- Cloud height
- Precipitation amount and identification (present weather)
- Freezing rain
- Lightning detection (thunderstorm)
- Runway Visual Range (RVR)
  - Ambient light
  - Runway Light Intensity Monitor (RLIM)
- Solar radiation
- Runway surface condition





## Field Data Collection Unit (FDCU)\*

The FDCU collects data from all of the field sensors and processes it using Campbell's technology. The unit is encased in a waterproof enclosure and can include an optional display.

## **Power Options**

- AC power
- Solar power for all or part of the system
- Back-up battery

## **Communications Options**

- Cable modem
- Fiber-optic cable
- UHF/VHF/Spread Spectrum radio
- Wireless mesh network
- Ethernet/IP

## Server and Aviation INTERCEPT® Software\*

#### **Voice and Data Output**

- AFTN/ATIS
- Voice output to pilots

 Integration with national weather service and other meteorological databases

## **Displays and Workstations**

- PC workstations (weather observer, control tower, maintenance, etc.)
- · All-in-one displays
- Other displays available

\*Indicates required item

## **Aviation INTERCEPT® Software**

- Web-based viewing platform, accessible to authorized users through a web browser on any computer
- Either Linux or Windows® operating systems
- ICAO/FAA/WMO/FMH-1 approved algorithms



- Automatic METAR/SPECI reports
- Other report formats available (SYNOP, CLIMAT, TAF, etc.)
- Remote maintenance monitoring
- Display screens are currently available in English, Spanish, Chinese, and Russian languages



## **The Campbell Scientific Difference**

## Experience:

For years, aviation customers around the world have relied on Campbell's fixed-base and portable weather monitoring systems for their airports and aerodromes. Our team of engineers and project managers have decades of experience in aviation weather, system design, installation, training, after-sales service, and program management.

#### The best sensors:

We source the most advanced meteorological sensors from the best manufacturers and integrate them with our data processing units, telemetry solutions, and Aviation INTERCEPT® software. With our systems, customers can select which sensors they want to use.

## Reliability in the harshest environments:

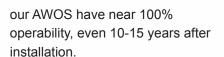
Campbell's aviation weather stations have been installed in some of the most remote locations and harshest environments in the world, including the U.S. Navy's station at the South Pole. Globally,

Additional Services:

System design and consultation

AWOS refurbishment and upgrades

- Site surveys
- Training
- Program management
  - Software development and integration



## Scalability and flexibility:

The modular design of Campbell's AWOS enables us to design a system to fit any size application. Campbell's aviation software, Aviation INTERCEPT®, can be configured for up to ten sensor

groups on up to three runways. We also offer portable and solarpowered AWOS for portable operations and for locations with limited pre-existing infrastructure.

## Value for money:

Our customers are able to optimize the configuration of sensors to meet their technical requirements and budget. In other words, they buy only what they need. Additionally, the

high level of reliability and ease of integration mean that the customer will spend less on maintenance, sensor replacement, and upgrades during the life of the system.

## **Customer experience:**

Campbell ensures that customers "take ownership" of their aviation weather monitoring systems. We prepare our customers to manage the operation and continued maintenance of their systems through the system design, the intuitive layout and features of Aviation INTERCEPT®, and factory and site-based trainings.







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