



TRANSPORTATION SERVICES
An ADB SAFEGATE Company

F1 AWOS FAA CERTIFIED AUTOMATED WEATHER OBSERVING SYSTEM



Trusted Leader in Aviation Weather Solutions

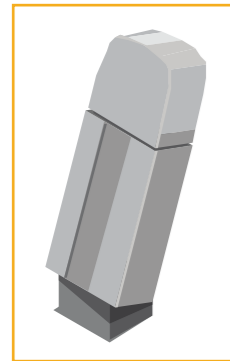
With over 40 years of industry expertise, we deliver reliable solutions that pilots and airports can depend on. As the largest provider and servicer of FAA Non-Federal AWOS systems, we support more than 900 airports across the country. Our advanced sensors and data platforms are exclusively manufactured in-house, ensuring unmatched reliability and cutting-edge performance tailored to your needs.



F1 AWOS Weather Display

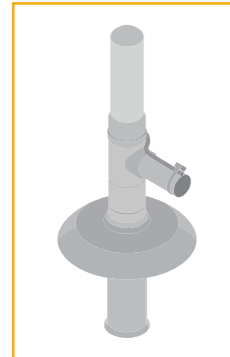


National Airspace Data Interchange Network



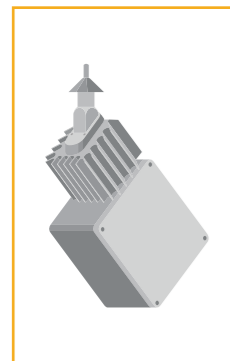
Ceilometer

- Mandatory for AWOS III, which is minimum criteria for METAR inclusion into NADIN.
- Unsurpassed performance in vertical visibility and cloud detection during precipitation.
- Advanced single lens optics provides excellent performance, including at low altitudes.



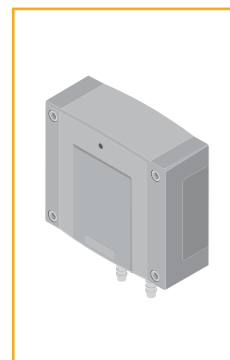
Air Temperature and Humidity Sensor

- Responds quickly to changes in humidity.
- Superior long-term stability.



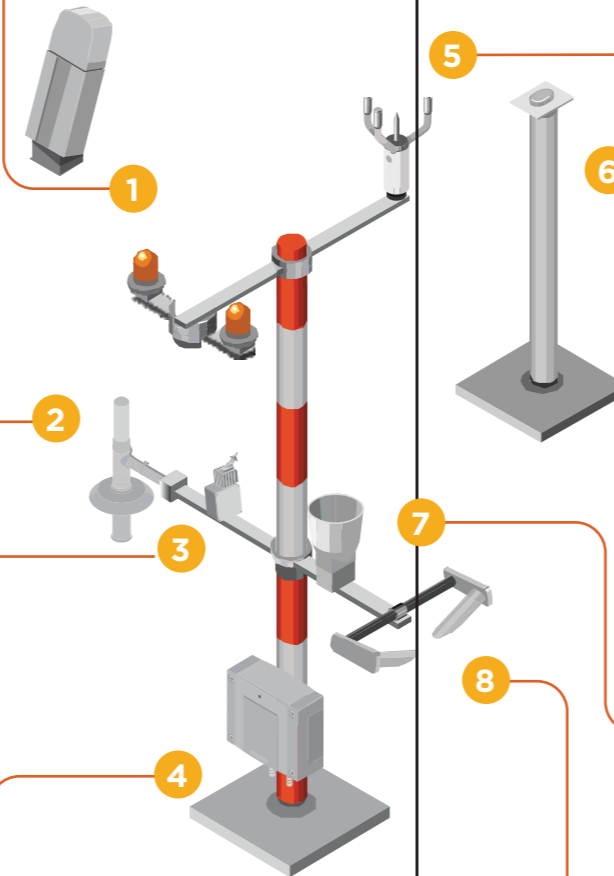
Freezing Rain Sensor

- Detects presence of freezing rain and enhances the present weather METAR report beyond Unidentified Precipitation.
- Necessary to meet AWOS IV Z.

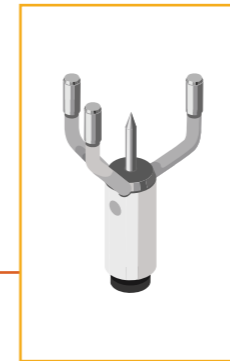


Barometric Pressure Sensor

- Industry leading dual pressure sensors are independently vented to ensure accuracy and reliability.



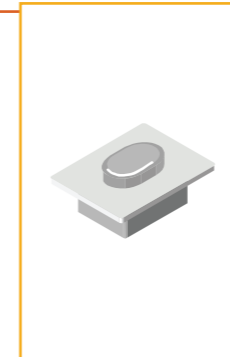
AWOS Components



Ultrasonic Wind Sensor

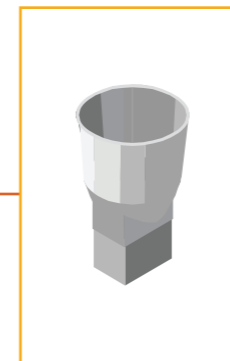
- Measures wind speed and direction with no moving parts
- Minimal maintenance required over mechanical.
- Sensor is heated to prevent ice build-up and increase reliability in harsh environments.

**Mechanical wind sensors are also available.*



Lightning Sensor

- This sensor detects the occurrences of lightning in the vicinity of the airport.
- The sensor reports lightning activity within 50 nautical miles of the airport.



Precipitation Accumulation Sensor

- Required as part of AWOS III System, and part of METAR Synoptic Message.
- Reports 3, 6, and 24 hour precipitation amounts in inches.



Visibility and Present Weather Sensors

- Reports visibility conditions (fog, haze, freezing fog, mist) and precipitation type using forward scatter technology.
- Visibility measurements from less than a 1/4 mile up to 10 mi.
- Precipitation Identified:
 - Snow
 - Rain
 - Drizzle
 - Unidentified Precipitation

AWOS I

Wind Speed and Direction, Temperature, Dew Point, Altimeter Setting, and Density Altitude

AWOS II

AWOS I + Visibility, Variable Visibility, Precipitation and Day/Night

AWOS III

AWOS II + Cloud Height and Sky Condition

AWOS IIIT

AWOS III + Lightning Location

AWOS IIIP

AWOS III + Present Weather, Precipitation Type

AWOS IIIPT

AWOS III + Present Weather, Precipitation Type and Lightning Location

AWOS IIIPTZ (AWOS IV Z)

AWOS IIIPT + Freezing Rain Identification

F1 AWOS: Elevate Your Airport's Operations

FAA Certified:

Fully compliant with FAA regulations, meeting all standards outlined in Advisory Circular (AC) 150/5220-16E.

NADIN Interface:

Integrates seamlessly with the National Airspace Data Interchange Network (NADIN) for reliable data transmission.

Effortless System Upgrades:

Designed to upgrade your existing AWOS, providing enhanced flexibility and performance without the need for a complete replacement.

Customizable Configurations: Available in stand-alone or split-system setups with flexible installation options, including stacked and fold-over tower designs.

Scalable to Your Needs:

Versatile system options, from AWOS I to AWOS IV-Z as well as Backup AWOS, that support your airport's growth.

Advanced Intelligent Sensors:

Equipped with FAA-certified, state-of-the-art sensor for superior reliability and performance.

AIP Funding Eligible:

Qualifies for Airport Improvement Program (AIP) funding to help maximize your project's budget.

Remote Maintenance Monitoring (RMM):

Enables authorized personnel to remotely access, monitor system performance, and adjust configurations for streamlined operations.



For more information about the DBT AWOS please email our aviation experts at Sales@dbttranserv.com or visit www.adbsafegate.com/weather