

## **List of Certified Non-Federal AWOS Systems and Manufacturers as of January 10, 2022**

This list is provided to identify manufacturers that provide certified non-Federal AWOS systems as of January 10, 2022. The FAA has certified the listed manufacturer's systems for use. Systems not shown on this list are not certified by the FAA and are not FAA approved sources of automated aviation weather information. Different types of flight operations require specific approved weather information. Please make sure the selected non-Federal AWOS supports the flight operations conducted at your airport.

This list will be updated as needed. It may not be used as the means for determining whether bidders are responsive. Airport sponsors and consultants must verify with the FAA the current list of certified non-Federal AWOS manufacturers and systems when preparing bid documents. (Printed/downloaded copies of this list are not valid for procurement purposes.)

The FAA recommends the guidance and specifications in the current revision of Advisory Circular 150/5220-16 for non-Federal Automated Weather Observing Systems (AWOS). The current approved revision of this Advisory Circular (AC) is Revision E, Change 1, dated January 31, 2019. In general, use of this AC is not mandatory. However, the use of the specifications in this AC is mandatory for AWOS projects funded under the Airport Improvement Program (AIP) with revenue from the Passenger Facility Charges (PFC) program or for non-Federal AWOS projects for airports that are obligated to the Airport Sponsor Assurances.

Prospective owners wanting to install an AWOS system and their consultants, should coordinate their plans with the FAA Service Center non-Federal Program Implementation Manager (PIM) or coordinator, follow the procedures they provide and become familiar with the current revisions of:

- FAA Advisory Circular 150/5220-16, Automated Weather Observing Systems (AWOS) for Non-Federal Applications,
- FAA Order 6560.20, FAA Siting Criteria for Automated Weather Observing Systems,
- FAA Order 6700.20, Non-Federal Navigational Aids, Air Traffic Control Facilities and Automated Weather Systems,
- The FAA 7460-1 obstruction approval process,
- The FAA system meteorological siting approval process and
- The VHF frequency assignment process before starting to acquire or install a non-Federal AWOS.

**Note: In accordance with H.R. 302, FAA Reauthorization Act of 2018, Section 147, General Facilities Authorization, Transfers of Air Traffic Systems, the FAA is conducting a pilot project to develop the implementation process. This pilot program encompasses assuming operation and maintenance of newly installed, AIP funded, non-federal AWOS-3PT or better systems with WMSCR connectivity, as defined in the most current version of the non-federal AWOS Advisory Circular. Upon conclusion, the FAA will release the necessary guidance.**

Further information concerning non-Federal AWOS standards and the FAA type certification approval process may be obtained from the AWOS Non-Federal Engineering Office, AJW-144, [9-AMC-Weather-Systems-Support@faa.gov](mailto:9-AMC-Weather-Systems-Support@faa.gov), (405) 954-8427.

To ensure you have the latest version of this list, please contact [9-AMC-Weather-Systems-Support@faa.gov](mailto:9-AMC-Weather-Systems-Support@faa.gov)

Manufacturer	Model
All Weather, Inc.	AWOS 900 <sup>6</sup> , AWOS 3000
Optical Scientific, Inc., formerly Belfort Instrument Company	DigiWx ( rebranded as OSI AWOS AV)
Mesotech International	AWA
DBT Transportation Services LLC, formerly Vaisala, Inc.	VC/VD <sup>6</sup> , AW20

Non-Federal AWOS System Definitions <sup>1</sup>	Certified Data <sup>2</sup>	AWOS 900 <sup>6</sup> AWOS 3000	DigiWx	AWA- <sup>5</sup>	VC/VD <sup>6</sup>	AW20
AWOS A	Altimeter setting	X	X	X	X	X
AWOS A / V	Altimeter setting, visibility	X <sup>4</sup>	X	X <sup>4</sup>	X <sup>4</sup>	X <sup>4</sup>
AWOS I	Wind speed, wind direction, wind gust, variable wind direction, temperature, dew point, altimeter setting, and density altitude	X		X	X	X
AWOS II	Same as AWOS I plus visibility, and variable visibility	X		X	X	X
AWOS III <sup>3</sup>	Same as AWOS II plus precipitation accumulation, cloud height, and sky condition	X		X	X	X
AWOS III P <sup>3</sup>	Same as AWOS III plus present weather identification	X		X	X	X
AWOS III T <sup>3</sup>	Same as AWOS III plus thunderstorm/lightning reporting	X		X	X	X
AWOS III P/T <sup>3</sup>	Same as AWOS III plus present weather identification and thunderstorm/lightning reporting	X		X	X	X
AWOS IV Z <sup>3</sup>	Same as AWOS III P/T plus freezing rain detection	X		X	X	X
AWOS IV R <sup>3</sup>	Same as AWOS III P/T plus runway surface condition				X	
AWOS IV Z/R <sup>3</sup>	Same as AWOS III P/T plus freezing rain detection and runway surface condition				X	

**Notes:**

1. These system definitions are based on information found in FAA Advisory Circular 150/5220-16, Automated Weather Observing Systems (AWOS) For Non-Federal Applications. This AC also contains site location and implementation criteria that must be adhered to before the installed system can be commissioned and become an approved source of aviation weather information. It also contains maintenance, annual inspection and personnel criteria that must be met throughout the system's life cycle in order for the system to continue to be an approved source of aviation weather information.

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2. In addition to providing the identified certified information, AWOS systems may also provide additional, uncertified (“Advisory”) information.
  - Advisory weather parameters are not verified or certified by the FAA.
  - Advisory parameters may not adhere to the criteria (definitions, accuracy, reliability, etc.) identified in FAA Advisory Circular 150/5220-16.
  - Advisory sensors may not be properly located in accordance with the siting criteria, FAA Order 6560.20, hence the weather information they provide may not be representative of prevailing conditions encountered by aircraft.
  - Any uncertified weather information (measured or calculated), e.g. density altitude or wind speed and direction on an AWOS A system, is advisory and must be clearly identified as such and preceded by the word, “Advisory” in all automated verbal transmissions (radio or phone line).
3. In accordance with the current revision of FAA Advisory Circular 150/5220-16, only non-Federal AWOS systems meeting the AWOS III (or better) criteria may be eligible for FAA long-line dissemination of certified weather information (i.e. METAR information) nationally via the FAA network. Please refer to the advisory circular as additional criteria do apply.
4. The AWOS-II is also certified to provide AWOS-A/V information (altimeter setting and visibility).
5. Mesotech refers to each model AWA configuration as follows:  
  
AWOS-A and -A/V : AWA-A  
AWOS-I : AWA-10  
AWOS-II : AWA-20  
AWOS-III : AWA-30  
AWOS-III P : AWA-30P  
AWOS-III T : AWA-30T  
AWOS-III PT : AWA-30PT  
AWOS-IV Z : AWA-40Z
6. While these systems still have FAA approval to operate in the NAS, they are no longer available for purchase as new systems.