

AWOS



Automated

Weather

Observing

System

AWOS





Automated Weather Observing System

Why an AWOS?

Accurate and up-to-date weather information is essential to the safe and economic operation of any airfield, large or small. Few things change faster than the weather and All Weather Inc.'s AWOS system provides the power and versatility necessary to stay on top of those changes. Without weather data, your airport cannot operate under IFR conditions, and this can cost you money in lost landing fees and services.



Power and Quality

All Weather Inc.'s series 900 AWOS is based on the model 1190 data acquisition system. The 1190 is a powerful microprocessor-based computer system that collects and processes the data from the sensor array at the airport. Various models of AWOS are available. The differences in these models are the parameters reported below.

AWOS I

Wind Speed, Wind Gust, Wind Direction, Variable Wind Direction, Temperature, Dew Point, Altimeter Setting, Density Altitude

AWOS II

Same as AWOS I + Visibility, Variable Visibility, Precipitation, Day/Night

AWOS III

Same as AWOS II + Cloud Height & Sky Condition

AWOS III-P

Same as AWOS III + Present Weather, Precipitation Discrimination

AWOS III-P-T

Same as AWOS III + Present Weather & Lightning Detection

All series 900 sensors are built with the same high quality you would expect from All Weather Inc. All sensors meet or exceed the requirements of the FAA as well as the requirements of the international governing bodies, ICAO and WMO.

Data Availability

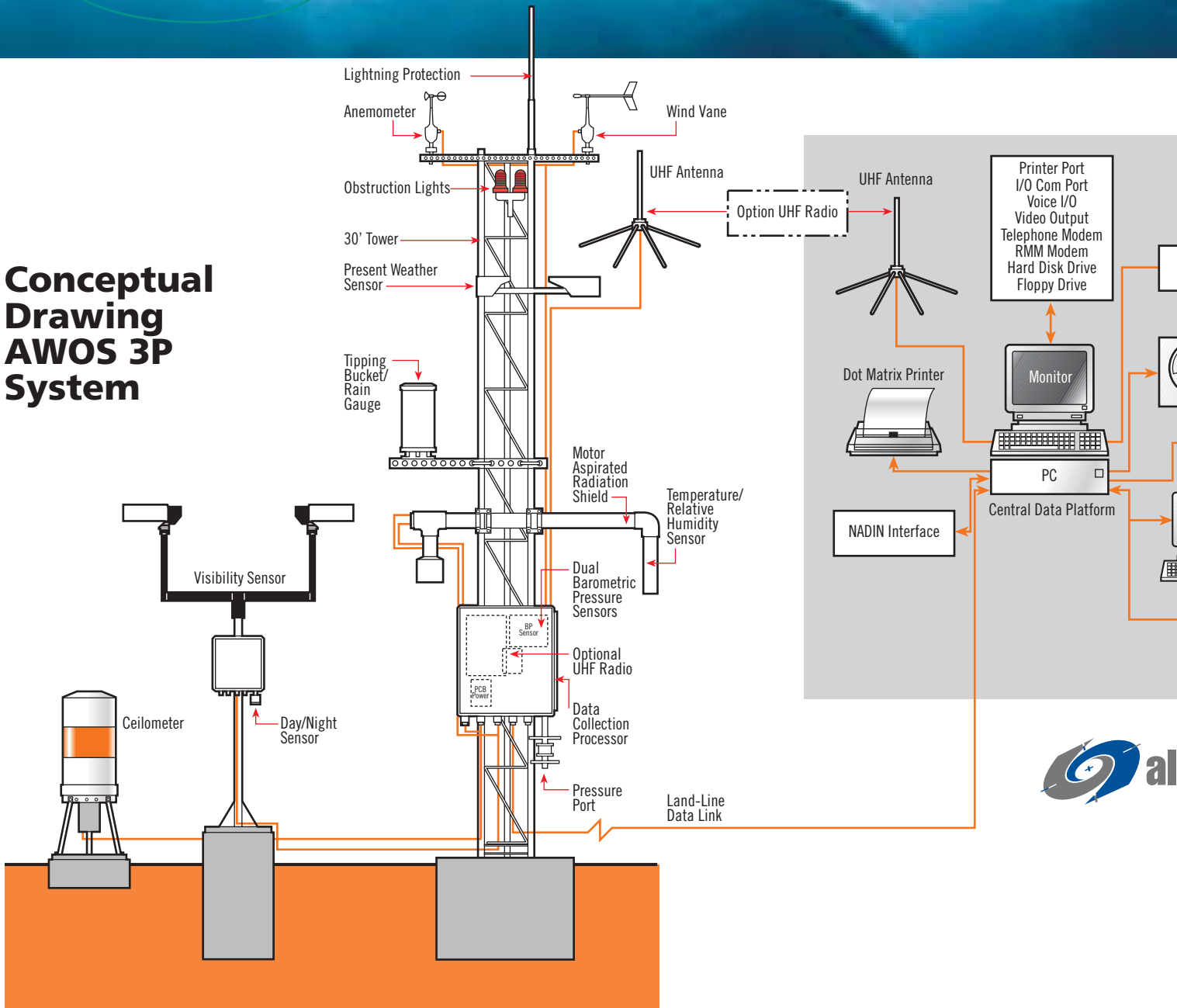
The series 900 AWOS provides an output for the optional system connection to the National Airspace Data Interchange Network, NADIN and the AWOS Data Acquisition System ADAS, which are operated by the FAA to provide information to the Weather Message Switching Service (WMSC). These services provide weather data to Flight Service Stations and commercial airports for pilot briefing, National Weather Service forecasting and other weather services.

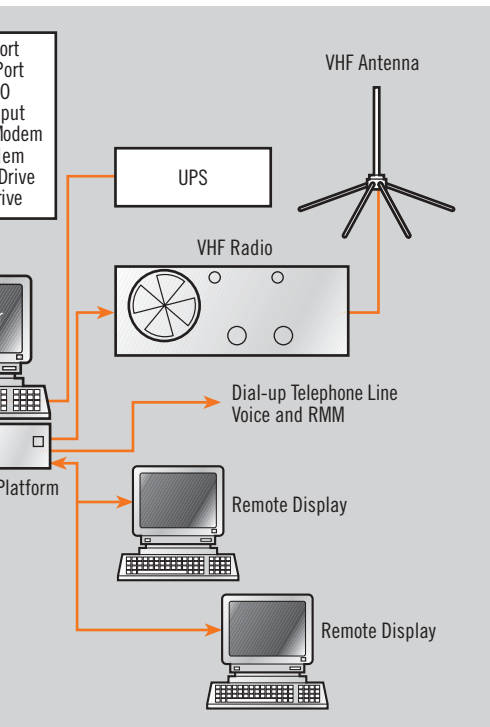
The connection to NADIN also enables reception of lightning data as well as providing your data to the FAA, NWA and other airports connected to the service.

The data from the AWOS is voice synthesized to provide a data report that can be transmitted via VHF radio,



Conceptual Drawing AWOS 3P System





NDB, or VOR to ensure that pilots on approach have the exact weather conditions at your airport. This voice data report is also available by telephone, so that current conditions can be obtained from anywhere.

The series 900 uses an IBM compatible computer with a 15" color monitor (optional 17" and 21" screens are available) to process the data and provide data storage and display. The system can archive data for up to 1 year at 5 minute intervals.

The PC has an integral timer that will ensure automatic restart of the system in the event of a power failure. The Series 900 also has an optional uninterruptable power supply that will provide backup power in the event of power failure.

The software package of the series 900 displays the data in color with an automatic color change for error messages and off line sensors. The software is menu driven and help screens are available for each menu. The algorithms used in the processing of data are FAA & ICAO approved to ensure accurate data to your airport users.





“All Weather Inc. has installed over 300 AWOS systems nationwide”

The voice synthesizer system is installed in the PC together with a microphone that allows input of 2 voice remarks, each up to 90 seconds in duration. These NOTAM (Notice To Airmen) messages are automatically broadcast with the synthesized data from the AWOS. The series 900 also supports a system printer for report generation, error message reporting and printing of archived data.

Expandability

The modular design of the series 900 makes it easy to expand at any time. If you start with an AWOS I and

necessity dictates an expansion, simply add the required sensors to bring your system up to AWOS III P/T level. The display system can also be expanded to provide remote displays wherever they are required on the airport.

Easy Installation Easy Maintenance

All Weather Inc.'s series 900 AWOS is simple and inexpensive to install. We provide an easy to follow site preparation guide to ensure an error-free installation. The optional UHF data link means that expensive trenching and cable runs from the field station to the displays are not required.

Due to the modular design of the series 900 and the built-in diagnostics, the system is very simple and inexpensive to maintain. The diagnostic software continually checks each sensor and each module of the system for accuracy and correct operation. Should a failure occur it is reported immediately. The diagnostic software will point the





technician to the exact component that has failed, making the mean time to repair the lowest of any AWOS system.

Remote Maintenance Monitoring

All Weather Inc.'s AWOS systems have full Remote Maintenance Monitoring (RMM) capabilities. All Weather Inc. provided the FAA with a full RMM system for the Federal airport AWOS network to enable continuous monitoring of all 200 Federal sites. All Weather Inc. also offers this service to commercial customers in the US and around the world. This service ensures that when failure does occur, we know about it as soon as you do. All Weather Inc. can provide either a replacement part or an engineer to solve the problem.

Experience

All Weather Inc. and its precursors has over 20 years of experience in providing weather equipment to airports worldwide, many at major international airports. All Weather Inc.'s systems are built to the highest standards of quality and reliability, using only the latest proven technologies to ensure complete customer satisfaction.

From Alaska to Florida

All Weather Inc. was awarded the contract to supply 160 AWOS systems to the Federal Aviation Administration. Later the FAA purchased another 40 systems. They are installed across the United States, from the Arctic Circle in Alaska to the deserts of Arizona, to the Everglades of Florida. All Weather Inc. still provides full maintenance support for those sites under contract to the FAA. Since that time All Weather Inc. has installed over 300 AWOS systems nationwide.

As a result of All Weather Inc.'s vast experience with AWOS and FAA, we have produced the latest, state-of-the-art, AWOS system. The All Weather Inc. series 900 AWOS system provides accurate, reliable, weather data in compliance with FAA Advisory Circular (AC) 150/5220-16.



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