

# Fully automated reporting on weather conditions

**Insero AWOS** provides fully automated reporting of weather information via e.g. ATIS and SNOWTAM

The Automatic Weather Observation System, Insero AWOS, is a proven, yet modern and advanced, real-time weather observation solution in use at all sizes of operations, ranging from international to regional airports as well as helipads, offshore windfarms and rigs.

## **Automatic weather observation**

Insero AWOS is an automatic or semi-automatic system for collecting, calculating and presenting meteorological information including Meteorological Aerodrome Report (METAR), MET REPORT including calculated Runway Visual Range (RVR).

The system is designed to meet individual needs and can operate fully automated at e.g. airports, remote helicopter sites and windparks or in a semi-automatic manner in a meteorological office or observation post.

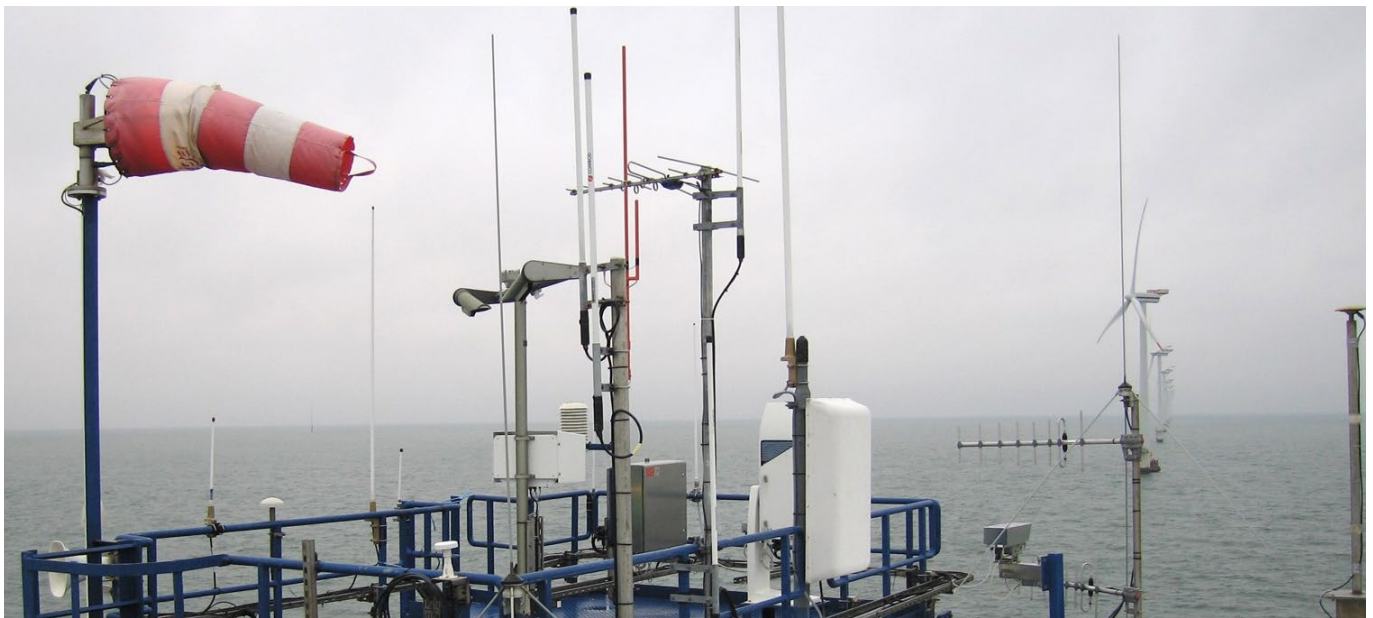
## **Fully automated for (un)manned sites**

For remote or unmanned sites like helipads, offshore

windfarms and rigs the fully automatic AWOS operations is typically the norm, whereas for smaller regional/local airports or airstrips it is usually used outside peakhours, where the tower is not manned.

AWOS supports autonomous weather reporting as well as the Automatic Terminal Information Service (Insero ATIS) and the new ICAO requirements in relation to Runway Condition Assessment Matrix (RCAM)/Global Reporting Format (GRF) and the automatic SNOWTAM distribution.

Insero AWOS combines the features of a complete weather observation system with advanced ATIS and remote-control function. For instance, you can broadcast meteorological data from MET REPORT and other important information for e.g. pilots, drone operators and others by integrating the solution with the Insero ATIS. Insero ATIS supports broadcasting of weather information via VHF and phone networks as well as remote-control functions such as radio-controlled switching of heliport lights and heliport cleaning.



**For more information  
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### **Integration and delivery of meteorological sensors**

Insero can integrate existing meteorological sensors from different manufacturers, or deliver a complete meteorological system including sensors if requested.

### **System Technology**

Insero AWOS provides an intuitive user interface and is based on a distributed network-oriented design. The software is based on a fault tolerant, redundant client/server platform specially developed to airport automation and integrating information systems.

Insero AWOS is developed in accordance with EUROCONTROL, EASA, ICAO, and WMO regulations and standards.



*Real-time, unified weather information*

## Key features

### **Real time, unified weather system**

Insero AWOS is a proven weather observation system which has been designed to meet the needs for unified, real-time weather information and reporting.

### **Support for operational procedures**

Simplified operations with automatic execution of operation sequences e.g. change of runway direction or change of CAT approach.

### **Customised user interface for optimum efficiency**

The modular and customisable user interface allows for adapted presentation layout to enhance efficiency and safety at each individual airport.

### **Real time control and monitoring**

Full situational awareness and operational status is provided for Insero AWOS and integrated weather sensors, independent of sensor manufacturer.

### **Automatic weather observation**

Whether to support automatic or semi-automatic systems, Insero AWOS solution can support air traffic controllers, weather observers and technical staff.

### **Operation modes evaluation**

Processing of health data for the airfield equipment is presented for the air traffic controller and recommends preferred operation mode.

### **Scales to operational needs**

Insero AWOS scales to the needs, ranging from airstrips to multiple runway (CAT I/II/III) airports, or for e.g. helicopter platforms and wind parks.

### **High quality synthetic speech**

The ATIS broadcasts are automatically updated, and use advanced dictionary with options to utilize phonemes, alias and spell out methods.