Automatic Weather Station AWS310

VAISALA

Product Spotlight

Providing trusted weather observations for a sustainable future

Weather itself can be unpredictable. The quality, consistency, and reliability of data shouldn't be. The Vaisala Automatic Weather Station AWS310 is built to deliver accurate, real-time weather information for effective short- and long-term forecasting and monitoring of developing severe weather conditions. It's as close to a set-it-and-forget-it solution that you'll find.

Key benefits

Autonomous, real-time quality control that tests sensor data against minimum and maximum climatological limits and changes between successive measurements.

Centralized remote monitoring and control of a single AWS site or full network via a web-based interface.

Long calibration intervals with minimal on-site configuration for reduced maintenance costs and minimal downtime.

WMO-compliant sensors designed for professional meteorology that deliver validated data and measurement consistency.

Resilient structure and backup systems providing uninterrupted functionality for communications, log reports, and system memory.

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala provides trusted weather observations for a sustainable future. With over 85 years of experience and customers in 170+ countries, from the North and South Poles to Mars, we help provide the most reliable and accurate weather and climate information for better and safer daily lives.

Our instruments and intelligence are known as the gold standard for precision and reliability. As a sustainability leader we enable meteorology professionals to better understand, forecast and explain climate change. We continue to channel our curiosity into climate action and new ways of enabling a better planet for all.

Vaisala AWS310 is a complete communication and weather observation solution that automatically measures, processes, and stores meteorological data for professional use. It includes sensors, electronics, telemetry, power supply, and mast — everything needed for a variety of weather monitoring and forecasting applications.

The AWS310 can be customized to specific applications and operated as a standalone unit or as part of a weather observation network. With its ease of maintenance and the long-term Vaisala partnership and support you can depend on, the AWS310 is a powerful tool and an exceptional value over time.

Applications:

- Facilitating real-time weather forecasting and synoptic data gathering for accurate tracking of adverse weather events
- Real-time monitoring of critical warning states such as storms and river or tide levels
- Supporting long-term climatology or research assessments that require stored data & logging
- Improving severe weather warnings and preparedness to help minimize property damage and loss of life

Measurements:

- Wind & speed direction
- Air temperature
- Relative humidity, dew point
- Precipitation
- Solar radiation
- Visibility & present weather
- Cloud height & sky condition
- Ground temperature & moisture
- Snow depth
- Water level

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