

Weather Transmitter WXT536

VAISALA

Product Spotlight

**Comprehensive weather data
for better-informed solar energy
decision making.**

Solar energy is a cornerstone of the renewable energy industry. Accurate historical and real-time weather data is important for site selection, array design, and solar plant operations. As solar production becomes an ever-more competitive energy option, having a comprehensive set of weather and environmental technologies available that delivers better, bankable data with increased agility and simplicity is critical.



Key benefits

Zero moving parts minimizes maintenance and eliminates mechanical failure related data errors.

Built-in self diagnostics automatically validate measurement stability.

Optional thermostatically controlled heaters in the transducer heads and arms prevent build-up of freezing rain and snow for operation in the harshest and coldest environments.

Why Vaisala?

We are innovators, scientists, and discoverers who are helping fundamentally change how the world is powered. Vaisala elevates wind and solar customers around the globe so they can meet the greatest energy challenges of our time. Our pioneering approach reflects our priorities of thoughtful evolution in a time of change and extending our legacy of leadership.

Vaisala is the only company to offer 360° of weather intelligence for smarter renewable energy, nearly anywhere on the planet. Every solution benefits from our 85+ years of experience, deployments in 170+ countries, and unrivaled thought leadership.

Our innovation story, like the renewable energy story, continues.

Vaisala Weather Transmitter WXT536 is a convenient, cost-effective multi-parameter weather sensor that provides crucial data without adding significant costs or complexity. These weather insights are important for safe construction and operations, as well as performance monitoring of photovoltaic (PV) plants as described in the IEC 61724-1:2021 standard.

The WXT536 captures accurate, real-time weather data covering rainfall, wind speed, wind direction, air pressure, temperature, and humidity. It delivers the comprehensive weather information needed for effective site planning, array design, operational safety, and for meeting your compliance needs.

Its compact, rugged design and proven measurement technology delivers simplicity and efficiency that requires almost no maintenance. The low power consumption and optional sensor heating makes the WXT536 a robust sensor that delivers reliable data under even the harshest conditions and in the most remote locations.

Applications

- Gathering comprehensive weather data to feed historical weather modeling necessary for energy yield estimates.
- Monitoring real-time weather conditions at all Master Terminal Units and Remote Terminal Units across a site.
- Enabling better informed, data-driven decisions during the development and operations phases.
- Identifying prime weather condition periods for optimizing energy capture.
- Real-time identification of sudden weather changes to minimize unexpected equipment damages and operational risks.

