

Pressure, Humidity, and Temperature Transmitter PTU307

Product Spotlight

Multi-parameter icing conditions awareness for wind energy

The Vaisala Pressure, Humidity, and Temperature Transmitter PTU307 is the ideal tool for wind energy operators and turbine manufacturers to assess the meteorological conditions that lead to icing on rotor blades. It reliably reports the key parameters of pressure, temperature, and humidity without adding substantial cost or complexity.



Key benefits

Built on proven BAROCAP® and HUMICAP® technology

Versatile data outputs

Modern, graphical display and keypad

Flexible calibration and setup

Flexibility for adding additional meteorological parameters

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.

Icing is a dangerous and efficiency-compromising phenomenon that affects many wind farms, both onshore and offshore. Just as ice on an airplane wing reduces that wing's performance in unpredictable ways, ice on a rotor blade can cause risk to personnel and harm expensive, precisely calibrated systems. With the PTU307, users can maintain full awareness of the conditions that lead to ice and never be caught unprepared.

Protect your most important investments

Icing presents significant risks to nearby personnel and equipment. With proper ice detection and warnings, everyone can be prepared. Mechanical strains from accumulated ice can also be minimized, increasing the life of the turbine.

Increase efficiency and uptime

Wind farms often use ice mitigation practices such as blade heating, but they need to know when and how to use them. Intelligence from the PTU307 increases uptime and operating hours when they matter most.

Stay compliant and proactive

Ice detection is often a compliance issue, and the right data ensures wind farms are meeting requirements and showing due diligence. PTU307 users don't have to wait for an incident and react when it's already too late.

Applications

- Multi-parameter monitoring of wind turbine icing conditions
- Fully integrated weather monitoring at any phase of wind operations

