

Weather Transmitter WXT530 Series

Affordable, compact, accurate weather measurement options



While not all weather measurement applications necessitate the expense or magnitude of an automatic weather station, they do require the same levels of durability and data reliability that you can trust 24/7.

Vaisala Weather Transmitter WXT530 Series is a unique collection of sensors that capture a combination of wind, rain, temperature, humidity, and barometric readings in a compact, affordable package. The WXT530 Series utilizes solid state technologies to minimize operating and maintenance costs. Integration is easy and flexible through the digital and analog interface, and you can also connect third-party sensors to select WXT530 models to create your own weather parameter hub.

With a range of WXT530 models to choose from, Vaisala delivers the right weather sensor capabilities for your needs and budget.

Key benefits

Flexibility of use

WXT530 is a series of weather instruments that measure six of the most important weather parameters (air pressure, temperature, humidity, rainfall, wind speed, and direction) in various combinations. With a wide range of modes and voltages available, simply select the weather parameters you need to determine the right fit.

All models offer a heated option for cold weather accuracy, and their low level of power consumption make the WTX530 Series ideal for solar power and other environmentally conscious applications.

Straightforward integration and expansion

WTX530 Series transmitters make a great cornerstone of any cost-effective weather monitoring system. They are compact, easy to install, and almost effortless to maintain. The WTX530 Series offers a wide range of digital and analog communications connection options and integrates into third-party data collection platforms with ease. The new Modbus RTU interface enables easy integration with automation, instrumentation, and control systems in various industrial applications. Analog input options for additional third-party sensors enable expansion of the array to include solar radiation, water and snow levels, and external temperature sensors.

Durability and reliability

WXT530 Series focuses on maintenance-free operations in a cost-effective manner. With no moving parts, WTX530 models are durable, can be calibrated in the field, and require very little maintenance.

WXT530 Series at a glance

Option	Rainfall	Wind Speed	Wind Direction	Air Pressure	Temperature	Humidity
WXT531	•					
WXT532		•	•			
WXT533	•	•	•			
WXT534				•	•	•
WXT535	•			•	•	•
WXT536	•	•	•	•	•	•

Key features

Unique Vaisala solid state sensor technology that includes WINDCAP® ultrasonic wind sensors to determine horizontal wind speed and direction.

Easy to change PTU module using capacitive BAROCAP® sensor for barometric pressure, **HUMICAP® R2 sensor** for humidity and resistive platinum sensor for air temperature.

Acoustic RAINCAP® sensor to measure precipitation without flooding, clogging, wetting, or evaporation losses.

Six different configurations deliver the exact mix of weather measurements to meet your particular needs.

Wide variety of digital communication modes for easy integration with most weather monitoring platforms.

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 cold and humid environments.

Why Vaisala?

The industry's most dependable technology

Vaisala solutions are built on almost a half century of industry leadership with tens of thousands of units deployed in more than 110 countries. Our technology's precision and reliability under varying conditions have been validated time and time again, and our professional measurement solutions are trusted by leading national meteorology and aviation agencies all over the world.

Support to count on

Look to Vaisala for dependable support, project capabilities, and training so you can get the most from your system. With decades of experience providing the best technologies and the finest support, Vaisala's philosophy of partnership is unmatched in the industry.

Trusted weather observations for a sustainable future





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