



## Overview

The WXT536 is a solid-state, all-in-one weather instrument that measures wind speed and direction, precipitation, barometric pressure, temperature and relative humidity. Its

small size makes it ideal for quick, short-term deployments. However, the WXT536 is not intended for weather stations that require research-grade performance.

## Benefits and Features

- ▶ Low power consumption is ideal for battery powered systems
- ▶ No moving parts for durability and long maintenance intervals
- ▶ Easy integration with 3rd party data collection platforms

## Detailed Description

The WXT536's wind sensor consists of three equally spaced transducers that produce ultrasonic signals. Wind speed and direction are determined by measuring the time it takes for the ultrasonic signal of one transducer to travel to the other transducers.

Precipitation is measured one raindrop at a time. Whenever a raindrop hits the precipitation sensor, an electrical signal is produced that is proportional to the volume of the drop.

The WXT536 has a PTU module that contains a capacitive silicon BAROCAP sensor for barometric pressure measurements, a capacitive ceramic THERMOCAP sensor for air temperature measurements, and a capacitive thin film polymer HUMICAP180 sensor for relative humidity measurements. The PTU is housed in a naturally-aspirated radiation shield that protects it and reflects solar radiation.

For comprehensive details, visit: [www.campbellsci.com.au/wxt536](http://www.campbellsci.com.au/wxt536) 