



Vaisala WXT520

Weather G2 System



The Vaisala WXT520, when combined with a Harvest G2 system, provides reliable, accurate and cost effective industrial grade weather monitoring. The Vaisala all-in-one has become a world-wide standard for cost effective Met grade weather monitoring. For sites where it is absolutely critical to have wind monitored at a 10m height then the WXT520 can be used in conjunction with the WMT52 which is the Vaisala ultrasonic wind sensor as used in the all in one WXT520.

The WXT520 provides measurements for barometric pressure, humidity, precipitation, temperature, and wind speed and direction. To measure wind speed and direction, the WXT520 has the Vaisala WINDCAP sensor that uses ultrasound to determine horizontal wind speed and direction. The array of three equally spaced transducers on a horizontal plane is a Vaisala specific design. Barometric pressure, temperature, and humidity measurements are combined in the PTU module using capacitive measurement for each parameter. It is easy to change the module without any contact with the sensors.

Wind Speed

Measurement range: 0 - 60 m/s

Accuracy: 0 - 35 m/s - ± 0.3 m/s or $\pm 3\%$, whichever is greater, 36 - 60 m/s - $\pm 5\%$

Wind Direction

Measurement range: 0 - 360° - Accuracy: $\pm 3^\circ$

Rainfall

Output resolution: 0.01 mm, 0.001 inches - Accuracy: 5%

Rain Intensity

(one-minute running average in ten-second steps)

Range: 0 ... 200 mm/h (broader range with reduced accuracy)

Output resolution: 0.1 mm/h, 0.01 inches/h

Barometric Pressure

Measurement range: 600 - 1100 hPa

Accuracy: ± 0.5 hPa at 0 - 30 °C, ± 1 hPa at -52 - +60 °C

Air Temperature

Measurement range: -52 - +60 °C

Accuracy at +20 °C: ± 0.3 °C

Relative Humidity

Measurement range: 0 - 100 %RH

Accuracy: ± 3 %RH within 0 - 90 %RH, ± 5 %RH within 90 - 100 %RH

