

# Wind Speed and Wind Direction Sensors



### Description

A variety of sensors for measuring wind speed and direction are available. These sensors differ in their ranges, accuracies, and characteristics to suit different applications. Anemometers can measure different speed ranges and direction vanes have different resolutions and internal operating principles, therefore, depending on the need, one or the other will be recommended.

Notable features are:

- Great variety
- Suitable for different applications
- Reliability

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## Anemometers

#### (0-30 m/s or 0-60 m/s)

This sensor is designed to accurately and reliably measure wind speed in adverse environmental conditions. The housing is made of high strength aluminum alloy, the wind cup is made of 304 stainless steel, the PCB board is painted with a protective coating.

**Measuring Range:** 0 to 30 m/s, 0 to 60 m/s (optional) **Sensitivity:** ±0.5 m/s

#### (0-45 m/s)

Sensitive anemometer of 3 cups. The cups are made of carbon fiber material, with high intensity and low start threshold. The signal processing units are integrated in its housing.

Measuring range: 0 to 45 m/s Sensitivity: ±0.5 m/s





#### (0-60 m/s)

The anemometer consists of a normally open Hall effect switch that closes when the anemometer completes a turn, so the output is a digital signal with frequency proportional to the wind speed in km/h.

Measuring range: 0 to 240 km/h Sensitivity: 2,4 km/h/spin



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# Wind Vane A (Res. 22.5°)

Vanes

The vane consists of a base with a vane that rotates freely over a network of eight resistors connected to eight switches that close when a magnet in the base acts on them.

Measuring range: 0 to 360° Resolution: 22.5°

#### Wind Vane (Res. 1°)

With high RFI and EMI resistance, the sensor design reflects reliability and durability. It uses high quality corrosion resistant materials, such as aluminum or stainless steel; It has a good resistance to sand, dust, salt spray and fungi. Ideal for applications that require precision, reliability and minimal maintenance.

**Measuring range:** 0 to 360° **Resolution:** 1°

#### Wind Vane B (Res. 22.5°)

Built with high precision magnetosensitive chips integrated in the housing, and low inertia light metal. **Measuring range:** 0 to 360° **Resolution:** 22.5°





