

Measuring principle

The digital anemometer measures wind speed by measuring the speed of the fan(vane), whose axis is parallel to wind direction, using a revolution counter and converting it into readable format.

Applications

An anemometer is a device used for measuring wind speed with additional features of wind direction, temperature and relative humidity. It is a common instrument in weather stations, metrological departments and checking air conditioning and heating systems.



Features

- Built in temperature measurement.
- A sensitive balance vane wheel rotates freely in response to air flow.
- Reading convertible to different measurement units.
- Data memory for storing and recalling values later.
- Data hold and auto power off.
- Backlit display.

Technical Specifications

Model	Metrix+ AVM 05		
Display	13mm(0.5") 4-digit Backlit LCD		
Measuring range Wind speed	Range	Resolution	Accuracy
	0.4 ~ 45 m/s	0.1	±(2%n + 0.1d)
	1.4 ~ 162 km/h	0.1	±(2%n + 0.1d)
	80 ~ 8860 ft/min	1	±(2%n + 1d)
	0.8 ~ 88 knots	0.1	±(2%n + 0.1d)
Air temperature	0 ~ 60°C (32 ~ 140°F)	0.1 °C/°F	0.5°C / 0.9°F
Air flow	0 ~ 9999 CMM/ CFM	0.001 ~ 1	±(2%n + 1d)
Beaufort Scale	0 ~ 12	0.1	±0.5
Wave height	0 ~ 14m	0.1	±0.1
Measurement units	Wind speed: m/s, km/h, ft/min, knots Air flow: CMM(m ³ /min), CFM(ft ³ /min); Beaufort scale: Force Wave height: m; Air temperature: °C/ °F		
Data memory	24 groups		
Sampling rate	approx 1 reading per second		
Sensors	Air velocity/ flow sensor: Conventional angled vane arms with low friction ball bearing Temperature sensor: Precision thermistor		

Operating conditions	0 ~ 50°C; <80% RH
Power supply	4 x 1.5V AAA (UM 4)
Size	Main unit: 156 x 67 x 28mm Sensor head: 72mm diameter
Weight	260g (excluding batteries)
Standard accessories	Main instrument with sensor, instruction manual, batteries; gift box packing
Optional accessories	PC interface for data logging