Metrix+™
Innovative Excellence

DIGITAL ANEMOMETER

AVM 05

Air flow measurement

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

Model and Specifications subject to change without notice.