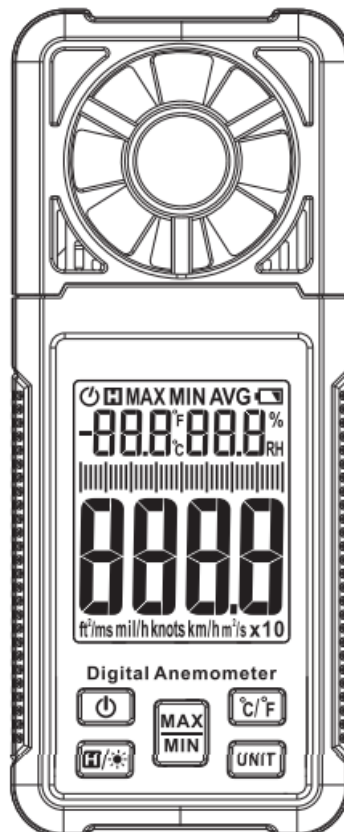




# HTC INSTRUMENT AVM-03 Digital Anemometer User Manual

[Home](#) » [HTC INSTRUMENT](#) » HTC INSTRUMENT AVM-03 Digital Anemometer User Manual 



AVM-03

## Contents

- 1 AVM-03 Digital Anemometer
- 2 Introduction
- 3 Considerations
- 4 Operation
- 5 Specifications
- 6 Maintenance
- 7 Documents / Resources

## AVM-03 Digital Anemometer

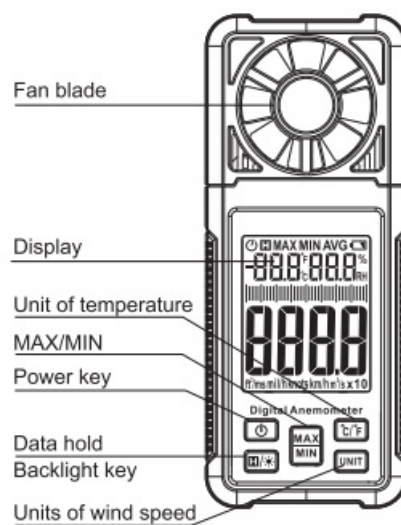
### Digital Anemometer



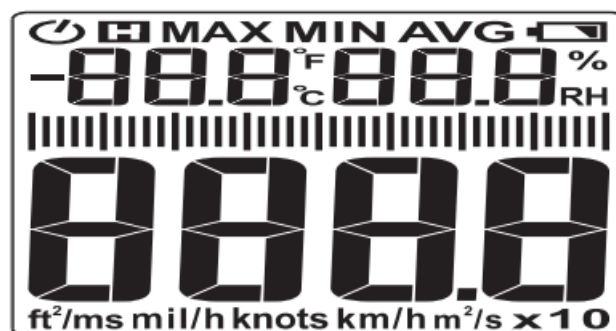
Before using the instrument, please read this manual Carefully, and save it well for future using.

### Introduction




This is A professional digital anemometer with stable performance, safety and reliability. It is widely used in wind energy, meteorology, industry, agriculture, hydrology and water conservancy, environmental protection, highways, airports and ports, etc.



### Display screen



symbols	description	symbols	description
<b>H</b>	Data hold	m/s	meter per second
MAX	Maximum value	Km/h	kilometers per hour
MIN	Minimum value	mil/h	Miles per hour
AVG	Average value	ft/m	Foot per minute


°C	Celsius	ft/s	Feet per sec
°F	Fahrenheit	knots	nautical miles per hour
%RH	Humidity unit		Low battery
	Wind speed simulation bar		Automatic shutdown

## Considerations

- Do not touch the fan blade with force.
- Do not store or operate the instrument in areas with high temperature or humidity.
- In use, do not let the strong light directly shine on the fan, in order to avoid measurement errors.
- Avoid violent vibration.
- Remove the battery before storing the instrument for a long time.



## Operation

### wind speed measurement:


1. Press me  button to turn on the power.
2. Hold the anemometer and let the fan plane of the anemometer align vertically with the wind direction of the airflow for measurement.
3. The display will show the wind speed, wind temperature and wind humidity at the same time.






### Data hold:

To freeze a displayed reading, press the  button(<1 Sec.). The “H” icon will appear and the most recent reading will appear in the display. Press the  button(<1 Sec.) to exit the mode and return to normal mode.


**Backlight on or off:**

Press the  button and hold it for more than 2 seconds to enable or disable the backlight function.


**MAX/MIN/AVG function:**

Press the  key (:51 Sec.) to turn on the maximum function, and then press the  key to cycle through the maximum, minimum and average values. Long the  key press (>1 Sec.) returns to normal measurement function.

**Temperature unit selection:**




Press the  key to select the temperature unit.


**Wind speed unit selection:**

Press the  key to select the desired wind speed unit (m/s, km/h, mill/h, ft/m, ft/s, knots).

**Auto shutdown function.**

When the power is turned on, the automatic shutdown function is turned on by default. No operation within 10 minutes will automatically shut down.

If you need to cancel the auto-off function, press and hold the  key before turning on the meter, then press the  key to turn on the power, and then release the  key after the meter is turned on, the auto-off function will be canceled.

To restore the auto-off function, turn on the power again to restore the auto-off function. When the meter turns on the auto-off function, the display will show the  symbol; when the auto-off function is canceled, it will not show.

**Specifications**

Display	LCD, Max display 9999
Air velocity	0.70 – 30.00 mis
Sampling rate	One reading per 0.5 Sec.
Sensor	Air velocity flow sensor: angled vane arms with bearing
Max Min Avg	minimum, maximum, average measurement
Data hold	Freeze reading
Operating conditions	Temperature:0-40°C, Humidity:<80%RH Altitude :<2000m
Storage conditions	Temperature:-1050°C, Humidity:<80%RH
Auto power off	10 minutes
Power	3 x 1.5VAAA(LR03) batteries

### Accuracy Specifications

The accuracy applies within one year after the calibration.

Reference condition: the environment temperature 18°C to 28°C, the relative humidity is no more than 80%

Air velocity measurements	Range	Resolution
m/s	0.70 — 30.00	0.01
km/h	2.50-108.0	0.01-0.1
ft/s	2.30 — 98.50	0.01
ft/m	137.0— 5900	0.1-1
knots	1.30 — 58.30	0.01

mil/h	1.50 — 67.10	0.01
Accuracy of air velocity	< 1.00m/s: $\pm 0.7$ m/s	
	1.00-30.00 m/s: $\pm(2.0\% + 0.5\text{m/s})$	
Range of temperature	-20.0°C — 60.0°C (-4.0°F-140.0°F)	
Resolution of temperature	0.0 — 45.0°C: $\pm 1.0^\circ\text{C}$	
	others: $\pm 1.5^\circ\text{C}$	
Range of humidity	0.0% — 99.9%RH	
Resolution of humidity	20%— 80% RH: $\pm 5.0\%RH$	
	others: $\pm 6.0\%RH$	

## Maintenance

### Battery replacement

When the meter shows the symbol "" , please replace the battery in time.

- Unscrew the battery cover, and then open the battery cover.
- Remove the batteries from the battery compartment.
- Install the new battery correctly according to the positive and negative marks on the bottom of the battery compartment.
- Reinstall the battery cover and fasten the screws to secure it.

### Cleaning



**caution**

**To avoid damaging the case, do not use corrosive agents or solvents to clean the instrument.**

Wipe the shell regularly with detergent or a damp cloth and detergent.



## Documents / Resources

	<p><a href="#">HTC INSTRUMENT AVM-03 Digital Anemometer</a> [pdf] User Manual HT605, AVM-03 Digital Anemometer, AVM-03, Digital Anemometer, Anemometer</p>
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