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› Wintact WT8907 Digital Anemometer User Manual

## Wintact WT8907

# Wintact WT8907 Digital Anemometer User Manual

Model: WT8907

## 1. INTRODUCTION

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The Wintact WT8907 Digital Anemometer is a multi-functional instrument designed for measuring wind speed, wind direction, air volume (CFM/CMM), ambient temperature, and humidity. It features a clear LCD backlight display, data logging capabilities, and PC connectivity for analysis. This manual provides detailed instructions for the proper use and maintenance of your device.



Figure 1: Wintact WT8907 Digital Anemometer with its remote sensor probe.

## 2. PACKAGE CONTENTS

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Verify that all items are present in the package:

- 1x Wintact Handheld Anemometer (WT8907 main unit)
- 1x Remote Vane Sensor with Retractable Handle
- 4x 1.5V AAA Batteries
- 1x USB Cable
- 1x User Manual (this document)

## 3. SETUP

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### 3.1 Battery Installation

1. Locate the battery compartment on the back of the main unit.
2. Open the battery cover.

3. Insert four (4) 1.5V AAA batteries, ensuring correct polarity (+/-).
4. Close the battery cover securely.



Figure 2: Battery compartment showing the placement of four AAA batteries.

### 3.2 Connecting the Sensor Probe

The remote vane sensor is connected to the main unit via a cable. Ensure the connector is firmly inserted into the designated port on the main unit.

### 3.3 Powering On/Off

Press the **POWER** button to turn the device on. Press and hold the **POWER** button to turn it off. The device also features an automatic shut-off function to conserve battery power if inactive for a period.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Basic Measurements

Once powered on, the device will display current wind speed, temperature, and humidity. The remote vane sensor should be positioned in the airflow for accurate readings.



Figure 3: Measuring wind speed and air flow from an HVAC vent.

## 4.2 Unit Selection

Press the **UNIT** button to cycle through available wind speed units: m/s, km/h, ft/min, knots, and mph. Press the **°C/°F** button to switch between Celsius and Fahrenheit for temperature readings.

## 4.3 Air Volume (CFM/CMM) Measurement

To measure air volume, press the **VEL/FLOW** button to switch to air volume mode. You will need to input the area of the duct or vent using the **AREA/SAMPLE** button for accurate CFM/CMM calculations.



Figure 4: Measuring air volume from a ventilation outlet.

## 4.4 Data Functions (MAX/MIN/AVG, HOLD, Record)

- **MAX/AVG/MIN:** Press the **MAX/MIN** button to display maximum, minimum, or average recorded values.
- **HOLD:** Press the **HOLD** button to freeze the current reading on the display. Press again to release.
- **Record (REC):** The device can store up to 960 groups of data. Press the **REC** button to save current data.
- **Read (READ):** Press the **READ** button to access stored data.
- **Delete (DEL):** Press the **DEL** button to clear stored data.



Figure 5: Display modes for Maximum, Average, and Minimum values.

#### 4.5 Wind Direction Measurement

The sensor head includes a compass for wind direction. Hold the sensor head straight up and rotate it until the desired direction is indicated on the display. Calibration may be required in different magnetic field environments by rotating the adjustment knob and pressing the **ENTER** key.

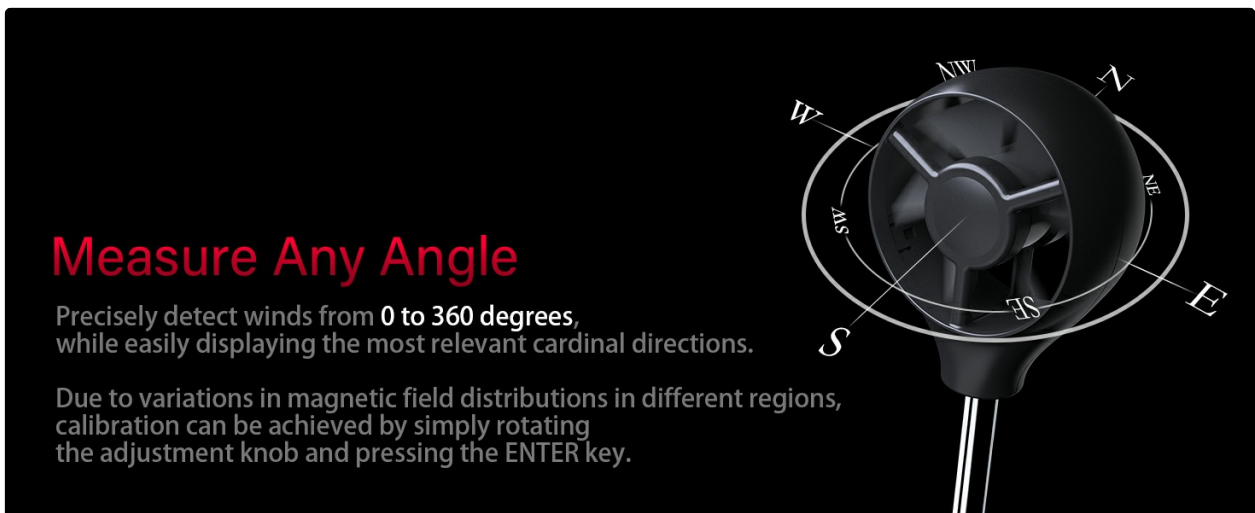


Figure 6: Illustrates how to measure wind direction using the sensor head's integrated compass.

#### 4.6 PC Connectivity

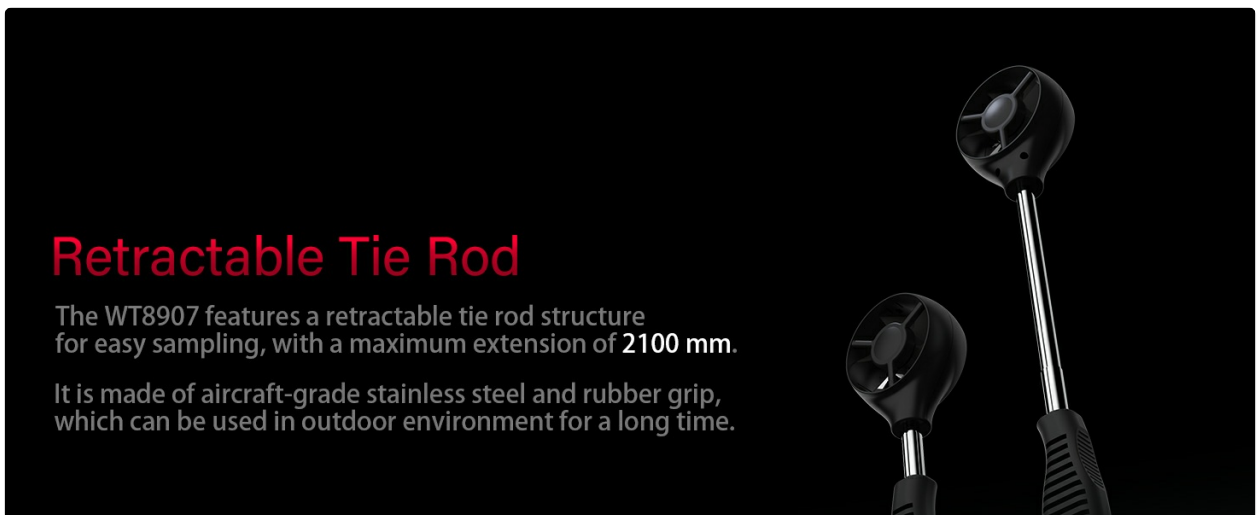
Connect the anemometer to a PC using the provided USB cable. This allows for data analysis and real-time monitoring using the dedicated software. The software can be downloaded from the manufacturer's website.



Figure 7: Anemometer connected to a computer for data logging and analysis.

## 4.7 Retractable Handle

The sensor probe features a retractable handle that extends up to 53cm (20.86 inches) for reaching difficult measurement points, such as inside ducts or high vents.



### Retractable Tie Rod

The WT8907 features a retractable tie rod structure for easy sampling, with a maximum extension of **2100 mm**.

It is made of aircraft-grade stainless steel and rubber grip, which can be used in outdoor environment for a long time.

Figure 8: The retractable handle extends for versatile measurement applications.

## 5. MAINTENANCE

### 5.1 Cleaning

Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the vane sensor is free from dust and debris for accurate readings.

## 5.2 Battery Replacement

When the low battery indicator appears on the display, replace all four AAA batteries promptly to ensure continuous operation and data integrity.

## 5.3 Storage

Store the anemometer in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for extended periods, remove the batteries to prevent leakage.

## 6. TROUBLESHOOTING

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- **Device does not power on:**

Check battery installation and ensure batteries are not depleted. Replace if necessary.

- **Inaccurate readings:**

Ensure the sensor vane is unobstructed and clean. Verify that the sensor cable is securely connected. Calibrate the wind direction if readings seem off.

- **Display is dim or flickering:**

This may indicate low battery power. Replace batteries.

- **Cannot connect to PC:**

Ensure the USB cable is properly connected to both the device and the computer. Verify that the correct driver and software are installed on your PC.

## 7. SPECIFICATIONS

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Feature	Specification
Brand	Wintact
Model Number	WT8907
Wind Speed Range	0 - 45 m/s (0 - 100 mph)
Wind Speed Accuracy	±3% ±0.1
Air Volume Range (CFM)	0 - 999900 ft³/min
Air Volume Range (CMM)	0 - 999900 m³/min
Temperature Range	0 - 45°C (32 - 113°F)
Temperature Accuracy	±1°C (±1.8°F)
Humidity Range	10 - 90% RH
Humidity Accuracy	±5% RH
Data Storage	960 groups
Connectivity	USB
Power Source	4x 1.5V AAA Batteries
Automatic Shut Off	Yes
Display Type	LCD with Backlight
Retractable Handle Length	Up to 53 cm (20.86 inches)
Product Dimensions	2.87 x 1.49 x 7.64 inches (main unit)
Item Weight	13.9 ounces (0.87 lbs)

Wind Speed Measuring Range					Air Flow Measuring Range			
Unit	Wind Speed Range	Resolution	Min Starting Value	Accuracy	Unit	Air Flow Range	Resolution	AREA
m/s	0 ~ 45	0.01	0.3	±3%±0.1	CFM(FT <sup>3</sup> /MIN)	0 - 999900	0.001 - 100	0.001 - 9999ft <sup>2</sup>
ft/min	0 ~ 8850	0.01/0.1/1	60	±3%±20	CMM(M <sup>3</sup> /MIN)	0 - 999900	0.001 - 100	0.001 - 9999m <sup>2</sup>
knots	0 ~ 87	0.01	0.6	±3%±0.2				
km/s	0 ~ 160	0.01	1	±3%±0.4				
mph	0 ~ 100	0.01	0.7	±3%±0.2				

Temperature Measuring Range				Humidity Measuring Range				
Unit	Temperature Range	Resolution	Accuracy	Unit	MAX / MIN	Resolution	Accuracy	Testing Conditions
°C	0 ~ 45	0.1	±1.0°C	%RH	10 ~ 90	0.1	±5%	90%RH non-condensing
°F	32 ~ 113	0.18	±1.8°F					

Figure 9: Detailed measurement ranges and accuracy for the WT8907.

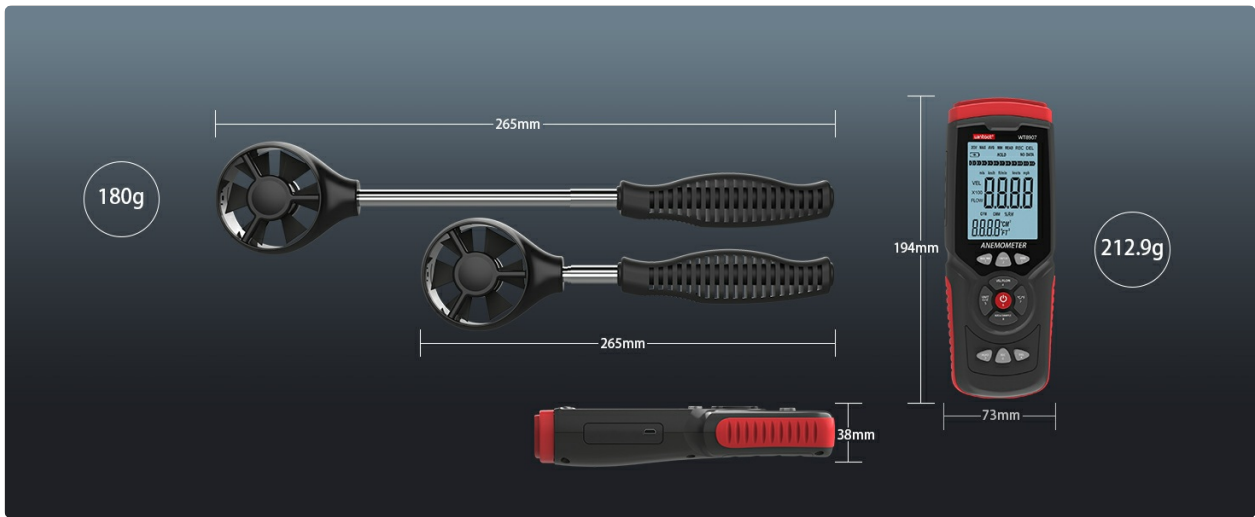


Figure 10: Physical dimensions and weight of the WT8907 main unit and sensor.

## 8. WARRANTY

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The Wintact WT8907 Digital Anemometer comes with a 12-month warranty from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. It does not cover damage caused by misuse, accidents, unauthorized modifications, or improper maintenance.

## 9. CUSTOMER SUPPORT

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For technical assistance, troubleshooting, or warranty claims, please contact our customer service team. Our professional support staff is available to assist you with any questions or issues you may encounter. Contact information can typically be found on the Wintact official website or through your purchase platform.