



# INSTRUCTION MANUAL

## MT947

### THERMO ANEMOMETER



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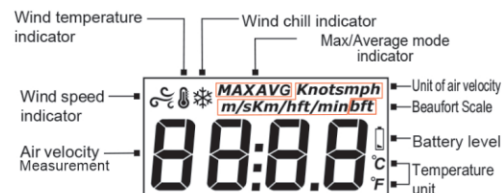
## 1. INTRODUCTION

The MT947 IP67 anemometer accurately measures air velocity and temperature in various environments. Its robust design and advanced features make it essential for HVAC, environmental monitoring, and outdoor activities, ensuring reliable performance in challenging conditions.

### Features:

- Air Velocity & Temperature Measurement.
- Max/Average/Current air velocity measurement.
- Temperature unit selection (°C/°F).
- Five units of air velocity: m/s, Km/h, ft/min, Knots, mph.
- Beaufort scale: bft (0~12 levels).
- Backlit LCD display with Low battery indication.
- Manual/Auto power shut off.
- Wind chill indication.

## 2. LCD DISPLAY



## 3. OPERATION

- 1. Power on:** Press "ON/M" button for about 2 seconds to turn ON.
- 2. Wind speed(velocity) and temperature settings:** Press "V/T" button to switch between wind speed (velocity) or temperature.
- 3. Wind speed and temperature unit settings:** When wind speed is displayed, press "U" button to switch the wind speed unit: m/s, Km/h, ft/min, Knots, mph, bft (Beaufort scale:0~12 level); when temperature is displayed, press "U" button to switch the temperature unit between °C and °F.
- 4. Measurement mode settings:** Press "ON/M" button to switch the measurement mode between the maximum or average values of wind speed, wind temperature, and real-time value. The MAX icon indicates maximum value mode, while the AVG icon shows average mode for the last 4 seconds. If neither icon is displayed, real-time values are shown. The selected measurement mode persists even after the MT947 is turned off.
- 5. Over-range display of wind speed:** When wind speed exceeds the allowable measurement range, "----" will be displayed.
- 6. Backlight:** Press any button to activate the backlight, which will turn off automatically after 10 seconds of inactivity.
- 7. Wind chill indication:** When wind temperature is below 0°C, "❄️" icon will be displayed.
- 8. Shutdown:** Hold down the "ON/M" button for about 2 seconds and the instrument will shut down.
- 9. Automatic shutdown:** The instrument will automatically shut down if no button operation for 14 minutes.
- 10. Low battery indication:** Low battery icon "🔋" indicates that the battery is low and you need to replace the battery.

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## 4. SPECIFICATIONS

### 4.1. Air Velocity

Unit	Range	Resolution	Min Wind Speed	Accuracy
m/s	0~30	0.1	0.7	±5%
ft/min	0~5860	19	137	
knots	0~55	0.2	1.4	
km/h	0~90	0.3	2.5	
mph	0~65	0.2	1.6	

### 4.2. Temperature

Unit	Range	Resolution	Accuracy
°C	-10°C to 45°C	0.2	±2°C
°F	14°F to 113°F	0.36	±3.6°F

### 4.3. General Specifications

Function	Range
Operating Temperature	-10°C to 45°C (14°F to 113°F)
Operating Humidity	Less than 90%RH
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Thermometer Type	Negative Temperature Coefficient (NTC)
Current Consumption	Approx. 3mA
Battery	CR2032 3.0V (Included)
Dimensions	47 x 21 x 126mm
Weight	84.5g (with battery and lanyard)

## 5. WARRANTY

### Warranty Coverage

Major Tech warrants its test instruments to be free from defects in materials or workmanship under normal use and service for a period of two (2) years from the date of shipment. This warranty is extended exclusively to the original purchaser, provided the online Product Registration has been completed on either [www.major-tech.com](http://www.major-tech.com) or [www.major-tech.com.au](http://www.major-tech.com.au), depending on which country the product was purchased. This warranty is non-transferable.

### Exclusions

This warranty does not cover:

- Disposable batteries and fuses
- Damage caused by leaking batteries (damaging the meter and components)
- Normal wear and tear of mechanical components
- Failures caused by use outside the product's specifications
- Any product which, in the opinion of Major Tech, has been misused, contaminated, or damaged due to neglect

### Check Procedure

Prior to contacting Major Tech or a distributor regarding a warranty claim, please check the following:

- Batteries are installed correctly
- Battery condition – either replace disposable batteries or ensure rechargeable batteries are charged where applicable
- Test leads are inserted in the correct terminals and are fully inserted, no damage to test leads

### Contact Information

For any warranty claims or inquiries, please contact either Major Tech or the distributor from whom the product was purchased.

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