UNI-T UT361

UNI-T UT361 Digital Wind Speed Meter Anemometer Instruction Manual

Model: UT361 | Brand: UNI-T

1. Introduction

The UNI-T UT361 is a professional digital anemometer designed for accurate measurement of wind speed, wind count, and temperature. This device is equipped with a split-type sensor for flexible positioning and features a clear LCD backlight display, data storage capabilities, and various measurement units to suit diverse professional applications.

Figure 1: UNI-T UT361 Digital Anemometer, showing the main display unit and the detached fan sensor.

2. Product Features

- **Data Hold:** Freezes the current measurement on the display.
- **LCD Backlight:** Enhances visibility in low-light conditions.
- **Temperature Units:** Selectable between Celsius (°C) and Fahrenheit (°F).
- **Auto Power Off:** Automatically shuts down after approximately 10 minutes of inactivity (cancelable).
- **Data Storage:** Stores up to 2044 sets of measurement data.
- **Auto Record Function:** Records data automatically at intervals from 0.5 to 255 seconds.
- **Wearproof Fan Shaft:** Designed for improved accuracy and long-term reliability.
- **Wind Speed Modes:** Displays Maximum (MAX), Minimum (MIN), and Real-time wind speed.
- **Wind Count Modes:** Displays Maximum (MAX), 2/3 Maximum, Minimum (MIN), Average (AVG), and Real-time wind count (CFM/CMM).
- **Selectable Units:** Supports 7 units for wind speed and flow: m/s, km/h, ft/min, MPH, KNOTS, CFM, CMM.
- **USB Interface:** For data transmission to a PC.

Figure 2: Overview of key features for UNI-T UT361 and UT362 anemometers.

3. Setup

3.1 Battery Installation

1. Locate the battery compartment on the back of the main unit.
2. Open the battery cover.
3. Insert one 9V alkaline battery (6F22) into the compartment, ensuring correct polarity.
4. Close the battery cover securely.

Figure 3: Rear view of the UT361, highlighting the battery compartment.

3.2 Connecting the Sensor

Connect the cable from the fan sensor to the designated port on the main unit. Ensure the connection is firm.

Figure 4: Front view of the UT361, showing the main unit and its connected fan sensor.

4. Operation

4.1 Power On/Off

Press the **POWER** button to turn the device on or off. The device will automatically power off after approximately 10 minutes of inactivity to conserve battery life. This feature can be disabled if continuous operation is required.

4.2 Selecting Measurement Units

Press the **UNIT** button to cycle through the available wind speed and flow units: m/s, km/h, ft/min, MPH, KNOTS, CFM, CMM. Press the **°C/°F** button to switch between Celsius and Fahrenheit for temperature measurement.

4.3 Wind Speed and Wind Count Measurement

Position the fan sensor in the airflow. The current wind speed and temperature will be displayed on the LCD. Use the **MAX/MIN** button to view maximum or minimum readings. The **VEL/FLOW** button switches between wind speed (VEL) and wind count (FLOW) display modes.

Figure 5: The UT361 in use, demonstrating its split-type design for flexible measurement.

4.4 Data Hold Function

Press the **HOLD** button to freeze the current reading on the display. Press it again to release the hold and resume live measurements.

4.5 Data Storage and Auto Record

The UT361 can store up to 2044 sets of data. Refer to the detailed operating manual for instructions on setting up the auto record function (intervals from 0.5 to 255 seconds) and retrieving stored data via the USB interface.
For data transmission to a PC, connect the device using the provided USB cable and utilize the PC software CD for data logging and analysis.

5. Maintenance

- Keep the device clean and dry. Use a soft, damp cloth for cleaning; do not use abrasive cleaners or solvents.
- When not in use for extended periods, remove the battery to prevent leakage.
- Store the anemometer in its carrying bag to protect it from dust and physical damage.
- Avoid exposing the device to extreme temperatures or high humidity.
- The fan shaft is wearproof, but avoid physical obstructions or excessive force on the impeller.

Figure 6: The UT361 anemometer with its standard accessories, including the carrying bag for protection.

6. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or dead battery; incorrect battery installation.	Replace the 9V battery; ensure correct polarity.
Inaccurate readings.	Fan sensor obstructed or damaged; device not calibrated.	Check for obstructions around the fan; ensure the sensor is clean. If issues persist, contact support for calibration.
LCD backlight not working.	Backlight function not activated; internal fault.	Ensure backlight is turned on (if applicable via a button, not explicitly mentioned but common). If not, contact support.
Data logging issues.	Incorrect auto record settings; USB connection problem; PC software issue.	Verify auto record interval settings. Check USB cable and PC software installation.

7. Specifications

Parameter	Range (UT361)	Best Accuracy (UT361)
Wind Speed Measurement	2m/s~10m/s 10m/s~30m/s	±(3%+5) ±(3%+8)
Wind Count Measurement (CMM)	0.001~9999 x 100	✓
Wind Count Measurement (CFM)	0.001~9999 x 100	✓
Temperature Measurement	0℃~40℃ (32℉~104℉)	±3℃(±4℉)
Display Count		9999
Data Hold		✓
Auto Power Off	Around 10 Minutes	✓
Low Battery Indication	≤7.2V	✓
MAX Mode		✓
MIN Mode		✓
Data Logging		2044
USB Interface		✓
Auto Record Time Setup		✓
Units Switch		✓
LCD Backlight		✓
Wind Speed Display	Display "VEL"	✓
Wind Count Display	Display "FLOW"	✓

General Characteristics

- **Power:** 9V Alkaline Battery (6F22)
- **LCD Size:** 57mm x 37mm
- **Product Color:** Red and Grey
- **Product Net Weight:** 375g
- **Product Size:** 162mm x 78mm x 30mm
- **Standard Accessories:** Battery, USB Interface Cable, PC Software CD, Carrying Bag
- **Standard Individual Packing:** Gift Box, English Manual

UT360 Series Anemometers

SPECIFICATIONS

	Range	UT361	UT362
Wind speed measurement	2m/s~10m/s	±(3%+0.5)	±(3%+0.5)
	10m/s~30m/s	±(3%+0.8)	±(3%+0.8)
Wind count measurement (CMM)	0.001~9999 x 100	√	√
Wind count measurement (CFM)	0.001~9999 x 100	√	√
Temperature measurement	0°C~40°C (32°F~104°F)	±3°C (±4°F)	±3°C (±4°F)
Features			
Display count		10000	10000
Data hold		√	√
Auto power off	Around 10 minutes	√	√
Low battery indication	≤7.2V	√	√
MAX/MIN mode		√	√
Data storage		2044	2044
USB interface			√
Auto record time setup		√	√
Units switch		√	√
LCD backlight		√	√
Wind speed display	Display "VEL"	√	√
Wind count display	Display "FLOW"	√	√

GENERAL CHARACTERISTICS

Power	9V battery (6F22)
Display	57mm x 37mm
Product color	Red and grey
Product net weight	375g
Product size	162mm x 78mm x 30mm
Standard accessories	Battery, USB interface cable (**UT362**), PC software CD (**UT362**), carrying bag
Standard individual packing	Gift box, English manual
Standard quantity per carton	10pcs
Standard carton measurement	460mm x 335mm x 210mm
Standard carton gross weight	6.8kg

UT362

UT360 series anemometers can measure temperature, wind speed, and wind count. These meters can be used in energy saving, HVAC, fishing and other industries that use exhaust or ventilation systems.

Figure 7: Comprehensive specifications table for the UT360 series anemometers.

8. Official Product Video

Your browser does not support the video tag.

Video 1: An unboxing and feature overview of the UNI-T UT361/UT362 Digital Wind Speed Meter. This video demonstrates the physical components and highlights key functionalities of the anemometer.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the contact details provided in the packaging or visit the official UNI-T website. Keep your purchase receipt as proof of purchase for warranty claims. The product is certified with CE and UKCA, ensuring compliance with relevant European and UK standards.