HONEYWELL
REMOTE ANEMOMETER
For Professional Weather Station TE923W

TS805
USER MANUAL

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Introduction

Thank you for selecting the Honeywell remote anemometer TS805. This product is a part of the Professional Weather Station TE923W. It measures wind speed & direction and transmits data to a TE923WD (main display unit).

Note: In order to display the wind speed, direction and related item, you must own a main display unit (TE923WD) for the Professional Weather Station TE923W.

In this package you will find:

One Anemometer (remote wind sensor/transmitter) (TS805)

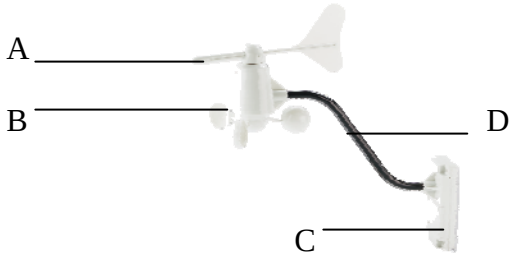
Mounting Hardware with wrench tool

One User Manual

Standard Package Contents

Picture	Components
	**Anemometer consists of:** Wind Cups Wind Vane Anemometer arm Anemometer base
4 screws and U-shaped holders for securing anemometer to vertical surface, wrench tool	**Mounting hardware**

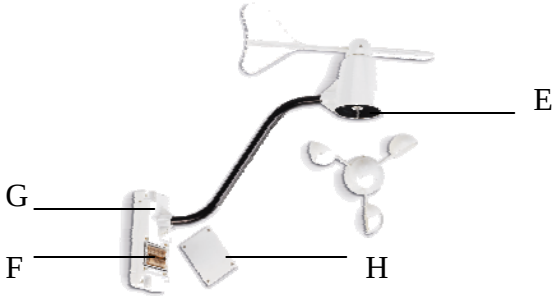
Diagram



A. WIND VANE
Measures wind direction
B. WIND CUPS
Measures wind speed
C. ANEMOMETER BASE

- Holds battery compartment
- Allows mounting the anemometer vertically

D. ANEMOMETER ARM
Keeps anemometer assembly together



E. WIND CUPS SHAFT
Holds wind cups on the anemometer arm
F. BATTERY COMPARTMENT
Holds 2 AA-size batteries
G. WALL MOUNT SCREW OPENINGS
Allows securing the anemometer in place
H. BATTERY COVER
Allows securing 2 AA size batteries on the anemometer base

Before you begin

- We recommend using alkaline batteries for the remote anemometer when temperatures are above 32°F (0°C) and lithium batteries when temperatures are below 32°F (0°C).
- Avoid using rechargeable batteries. (Rechargeable batteries cannot maintain correct power requirements).
- Insert batteries before first use, matching the polarity in the battery compartment

- During an initial setup, place the main unit close to the remote anemometer.
- After reception is established (the wind readings will appear on the main unit's display), position the remote anemometer and the main unit within the effective transmission range of 100 feet (30 meters). Ideally it should be placed within the line of sight of the main unit. Transmission range may be affected by trees, metal structures and electronic appliances.
- The effective operating range may be influenced by the surrounding building materials and how the receiver (main unit) and transmitter (remote anemometer) are positioned.

IMPORTANT: Make sure that the remote anemometer is accessible for cleaning and maintenance.

Installation

The Honeywell Remote Anemometer TS805 operates at 433MHz radio frequency, so no wire installation is required between the main unit (receiver) and the remote anemometer (transmitter).
All data measured by the remote anemometer is transmitted to the main unit wirelessly, with the operating range of 100 feet (30meters) in the open area.
Remote anemometer must be placed outdoors to measure wind speed and wind direction.
Note: It is critical to power up and test communication between the anemometer and the main unit BEFORE permanently mounting it outside.
To install the remote anemometer, you must assemble it first.

Assembly

- Place the wind cups over the wind cups shaft of the anemometer arm
- Insert the wrench tool provided into the wind cups opening and tighten the small screw inside.
- Test if the wind cups sit secure on the wind cups shaft

Battery installation

- Remove four (4) screws from the battery compartment with a small Phillips screwdriver.
- Open the battery compartment and install 2 "AA" size alkaline batteries (not included) matching the polarities shown.
- Replace the battery compartment door and secure the screws.

Aligning

- Point the wind direction vane to the north (use a compass or map if necessary).
- Press "**SET**" opening located inside battery compartment with a paper clip or similar tool. The "**SET**" opening controls toggling the wind direction between the factory preset or user set.

- Select the factory set mode. It will be also a default setting in the future.
- Set current wind direction as **NORTH**.
- Press **DOWN** button either on the main unit control panel or handheld remote control. The wind speed reading (usually 0.0) will appear in the wind window if TE923W main unit display, instead of dashes "- - -".

Note: Repeat this procedure every time when changing the batteries.

Mounting

Mount the anemometer onto a vertical surface, using the fittings provided.

Placement tips:

- The anemometer should be mounted in an open area with a free air flow; away from the nearby trees, buildings or other structures.
- Aim for a maximum exposure of the anemometer to the most common wind directions in the area.
- It is suggested mounting anemometer at 33 feet (10meters) above the ground in unobstructed area.

Operation

The wind direction is indicated in the wind window of the TE923W main unit display. It is shown by an animated compass display. The direction angle can be displayed as compass points (i.e. NW) or in bearings starting from north (i.e. 22.5º).

The upper left section of the wind mode can be programmed to display either a temperature at the place of anemometer or the temperature adjusted to the wind chill factor.

The lower left section of the wind mode indicates the average wind speed for the past 10 minutes, as well as gust, wind speed alert and gust alert information. It can also show records of the maximum wind speed and wind gust collected during the day.

The wind speed and gust alert functions can be programmed to alert you if the wind speed or gust exceeds a pre-configured limit. The wind speed can be displayed in km/h, mph, m/s or knots.

Note: The wind speed alert has a 5 mph deviation and the wind gust speed alert has a 7 mph deviation. It is set to prevent the alerts from sounding all the time due to small fluctuations close to the alert value. This means that after the wind speed reaches the alert value, it will have to fall below the alert value plus deviation to activate the alert.

To access wind mode from the main unit press **UP** or **DOWN** until the icon WIND on the display starts flashing. From the handheld remote control: Press .

Configuring Wind Display

In the Wind Mode press the **SET** button to recall either a wind chill temperature with wind direction in bearings, a wind chill temperature with a wind direction in compass points, a temperature at anemometer and wind direction in compass points or a temperature at anemometer and wind direction in bearings.

Setting Units for the Wind Speed in km/h, mph, m/s or knots

In the Wind Mode, press and hold **SET** to set the wind speed units in km/h, mph, m/s or knots.

Viewing Wind Statistics

In the Wind Mode, press the **MEMORY** button to recall a current wind speed, a daily maximum wind speed with "**DAILY MAX**" displayed, a gust speed with a "**GUST"** displayed and a daily maximum gust speed with a "**GUST DAILY MAX"** displayed.

Resetting the Wind Statistics Memory

In the Wind Mode, press and hold **MEMORY** to reset all wind statistics.

Enabling or Disabling the Wind Alerts

In the Wind Mode press the **ALARM/CHART** to recall a current wind speed, a wind speed alert with the "**ALARM HI"** displayed or gust alert with the **"GUST ALARM HI**" displayed.

If the alert is disabled, **"OFF"** will be displayed; otherwise the alert value is shown.

When a wind alert is displayed, press the **UP** or **DOWN** to activate or deactivate it.

Wind Alerts programming

- In the Wind Mode, press **ALARM/CHART** to select the desired alarm.
- Press and hold **ALARM/CHART** button until alert and corresponding icon will

flash.

- Set the alert using the **UP** or **DOWN**. Press and hold either button for fast digits advance.
- Press **ALARM/CHART** to confirm your selection and return to the wind alert selection screen.

Disabling the Wind Alert

To disable wind alert press **ALARM/CHART**.

Maintenance

Changing Batteries

The battery status of the remote anemometer is checked every hour. If the low battery indicator lights up, replace the batteries in the anemometer.

- When the batteries are properly installed, the remote anemometer will resume sending signals to the main unit.
- To enforce an immediate remote signals search, press and hold **DOWN** button on the main unit.

Cleaning

Check if the wind vane and wind cups can spin freely and are free from dirt, debris and spider webs.

Troubleshooting

Q: The display shows dashes "---" for wind speed

A: The display will show "- - -" when the wireless connection with the remote anemometer is lost for 15 minutes

Check or replace the batteries in the remote anemometer. Then press and hold **DOWN** button on the main unit or handheld remote to enforce a signal search.

If this does not work, check the wireless transmission path from the remote anemometer to the main unit and change their locations if necessary.

The following may be the cause of reception problems:

- The remote anemometer and a main unit are too far from each other.
- The signal shielding materials, such as metal surfaces, concrete walls or dense vegetation, are in the path of transmission.
- There is interference from the wireless devices (such as cordless phones, radio headsets and baby listening devices) and electronic appliances.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if handled carefully. Here are a few precautions:

- Do not immerse the units in water.

- Do not clean the units with abrasive or corrosive materials. They may scratch the plastic parts and corrode the electronic circuits.
- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the product's internal components. Doing so will invalidate the warranty and may cause damage. The product contains no user-serviceable parts.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the product.

Specifications

Radio Frequency: 433 MHz
RF Reception range: 100feet (30 m)
Wind Direction
Range: 0° to 360°
Resolution: 22.5°
Accuracy: 11.25°
Starting Threshold: 3mph (4.8 Km/h)
Transmitting interval: 33 seconds
Wind Speed
Range: 0 to 199.9mph (199.9 Km/h, 173.7 Knots, 89.3 m/s)
Resolution: 0.1mph (0.16 Km/h)
Accuracy: (2mph + 5%)
Starting Threshold: 3mph (4.8 Km/h)
Wind/Gust Speed Display Update Interval: 33 seconds
Wind/Gust Sampling Interval: 11 seconds
Power: 2 x UM-3 or AA 1.5V battery
Battery life (alkaline): 2 years
Weight (without batteries): 11.12oz (315g)
Dimensions: 19.16(L) x 19.16(H) x 15.35(D) inches / 486.6(L) x 486.6(H) x 390(D) mm

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.
Warning: Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment had been tested and found to comply with the limits for a Class B Digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment, installed and used in accordance with the instructions, may cause harmful interference to radio communications.
There is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to improve or correct turning the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

DECLARATION OF CONFORMITY

We
Name: Hideki Electronics, Inc.
Address: 7865 SW Mohawk, Tualatin, OR 97062
Telephone No.: 1-503-612-8395
declare that the product
Product No.: TS805
Product Name: Remote Anemometer for Professional Weather Station TE923W
Manufacturer: Hideki Electronics Ltd.
Address: Unit 2304-06, 23/F Riley House, 88 Lei Muk Road, Kwai Chung, New Territories, Hong Kong
is in conformity with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
This device may not cause harmful interference.
This device must accept any interference received, including interference that may cause undesired operation.
The information above is not to be used as a contact for support or sales. Please call our customer service hotline (refer to the Standard Warranty Information) for all injuries instead.

STANDARD WARRANTY INFORMATION

This product is warranted from manufacturing defects for one year from the date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and repair.

Note that online product registration is required to ensure valid warranty protection. To register your product, go to our Company website at: www.honeywellweatherstations.com. Click Online Product Registration under the Customer Service menu.

Should you require assistance with this product and its operation, please contact our Customer Service Hotline 1(866) 443 3543.

Please direct all returns to the place of the original purchase. Should this not be possible, contact Hideki Customer Service Hotline for assistance and to obtain a Return Merchandise Authorization (RMA). Returns without a return authorization will be refused. Please retain your original receipt as you may be asked to provide a copy for proof of purchase.

Hideki Electronics, Inc. reserves the right to repair or replace the product at our option.

Honeywell International Inc. makes no representations or warranties with respect to this product.

All user manual contents and information are subject to change.

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