HONEYWELL

REMOTE UV SENSOR

for Professional Weather Station TE923W

TS704

USER MANUAL

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Introduction

Thank you for selecting the Honeywell remote UV sensor TS704. This product is a part of the Professional Weather Station TE923W. It measures UV (ultraviolet light) levels and transmits data to a TE923WD (main display unit).

Note: In order to display the ultraviolet light levels, you must own a main display unit (TE923WD) for the Professional Weather Station TE923W.

In this package you will find:
One Sensor Unit
One U-Shaped Sensor holder
One Circular Ground Stand
One Stake Base
One Wall-Mounting Base
Mounting Hardware
One User Manual

Standard Package Contents

Picture	Components
	UV Sensor consists of: Sensor Unit U-Shaped Sensor holder Circular Ground Stand Stake Base Wall-Mounting Base
	Mounting hardware

Sensor unit

A. LED INDICATOR
- Flashes once when the remote UV sensor transmits a reading to the main unit
- Flashes twice when battery power is low

B. BATTERY COMPARTMENT SCREW
Holds battery compartment door in place

C. U-SHAPED SENSOR HOLDER
Holds UV sensor in upright position

D. CURCULAR GROUND STAND
Secures sensor in the sensor holder on the flat surface

E. UV SENSOR LID
Covers UV sensor and battery compartment

F. BATTERY COMPARTMENT
Holds two AA-size batteries

G. BATTERY COMPARTMENT DOOR
Covers two AA-size batteries

Before you begin
- We recommend using alkaline batteries for the remote UV sensor 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 UV sensor.
- After reception is established (the remote UV readings will appear on the main unit's display), position the UV sensor and the main unit within the effective transmission range of 328 feet (100 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 (UV sensor) are positioned.
- Place the remote UV sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls and furniture.

Installation

The Honeywell Remote UV sensor TS704 operates at 433MHz radio frequency, so no wire installation is required between the main unit (receiver) and the remote UV sensor (transmitter).

All data measured by the remote UV sensor is transmitted to the main unit wirelessly, with the operating range of 328 feet (100 meters) in the open area.

Remote UV sensor must be placed outdoors to measure ultraviolet light levels.

To install it:

- Unscrew the lid on top of the UV sensor unit.
- Remove the screw from the battery compartment door with a small Phillips screwdriver.
- Insert two 2 "AA" size 1.5V batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screw. The red light from the LED indicator will flash once meaning the UV sensor works properly.
- Screw the UV sensor unit lid back.
- Press **DOWN** button either on the main unit control panel or handheld remote control. The UV reading (usually 0.00) will appear in UV window of TE923W main unit display, instead of " - - -".

Assembly

- Snap the U-shaped sensor holder onto the UV sensor unit side grooves.
- Insert the round end of the U-shaped holder into the one of the mounting hardware pieces provided (ground, stake or wall).

Mounting

There are three different options available for mounting the UV sensor: ground stand, stake and wall mount.

Ground:
- Insert the U-shaped sensor holder round end into the circular ground stand opening, matching 2 round holes in the opening
- Secure the sensor in a location with a maximum sun exposure throughout the day.

Stake:
- Snap the sharp stake end onto the metal bar and secure with the screws provided.
- Insert the other end of the metal bar into the U-shaped sensor holder and secure with the screws provided.
- Secure the sensor in a location with a maximum sun exposure throughout the day.
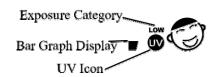
Wall:
- Insert the wall mounting end into the metal bar and secure with the screws provided.
- Snap the other end of the metal bar on to the U-shaped sensor holder and secure with the screws provided.
- Secure the sensor in a location with a maximum sun exposure throughout the day.

Placement tips:
The UV sensor should be mounted in the area free of sunlight shadows or reflections from the nearby objects.

Operation

The current UV intensity is indicated in the UV window of the TE923W main unit display. It is given in the numerical value and more intuitive display, by categorizing it into the levels "**LOW",** "**MED**", **HIGH**", **V. HIGH**" and **EXTREME**. It is also represented by a comfort icon that corresponds to the different UV levels.
The main unit records daily and weekly maximum of the UV intensity. Values may be displayed in MED/h or UVI. It also displays the remote UV sensor battery status.

Exposure Category

Bar Graph Display

UV Icon

Sensor Battery Status

UV Reading

To access UV mode from the main unit press **UP** or **DOWN** until the UV icon on

the display will flash. From the handheld remote control: Press.

Viewing UV Statistics
In UV Mode press the **MEMORY** button viewing either current UV intensity, daily Maximum UV intensity with "**DAILY MAX**" displayed or weekly Maximum UV intensity with a "**WEEKLY MAX**" displayed.

Resetting the UV Statistics Memory
In UV Mode, press and hold **MEMORY** button to reset all UV statistics.

Setting Units for UV Display (MED/h or UVI)
In UV Mode, press and hold **SET** to convert units between MED/h and UVI.

Maintenance
Changing Batteries
The battery status of the remote UV sensor is checked every hour by the main unit. If the low battery indicator in the display section for UV data lights up, replace the batteries in the remote UV sensor.
When the batteries are properly installed, the remote UV sensor 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
The outer casing of the remote UV sensor can be cleaned with a damp cloth. Small parts can be cleaned with a cotton tip or pipe-cleaner.
Never use any abrasive cleaning agents and solvents. Do not immerse units with electronic parts in water or under running water.

Troubleshooting

Q: "The display shows dashes "---" for UV readings"

A: The display will show "- - -" when the wireless connection to remote UV sensor is lost for 30 minutes.

Check and/or replace the batteries in UV sensor. Then press and hold **DOWN** button on the main unit TE923DW or handheld remote control TS607 to enforce a search for the remote signal.

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

Although wireless signals can pass through solid objects and walls, the remote UV sensor should ideally be within the line of sight of the main unit.

The following may be the cause of reception problems:

- The remote UV sensor 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: 328 feet (100 m)
Ultraviolet light
Range: 0 UVI to 36UVI (15.4 MED/hour)
Resolution : 0.1UVI (0.1 MED/h)

Accuracy: 1UVI + 10%
Transmitting Interval: 300 seconds
Power: 2 x UM-3 or AA 1.5V battery
Battery life (alkaline): 2 years
Weight (without batteries): 2.78oz (79g)
Dimensions: 2.58(L) x 4.45(H) x 2.58(D) inches / 65.5(L) x 113(H) x 65.5(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.: TS704
Product Name: Remote UV Sensor 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.
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All user manual contents and information are subject to change.

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