

# Honeywell

## Wireless Thermo-Hygrometer

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(TM005X)  
USER MANUAL

## **INTRODUCTION**

Thank you for selecting the Honeywell Wireless Thermo-Hygrometer with Remote Sensor. This device monitors and displays temperature and humidity both indoors and outdoors from up to three remote locations.

In this package you will find:

- One main unit (receiver)
- One remote sensor (transmitter) TS33
- One User Manual

Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.

## **PRODUCT OVERVIEW**

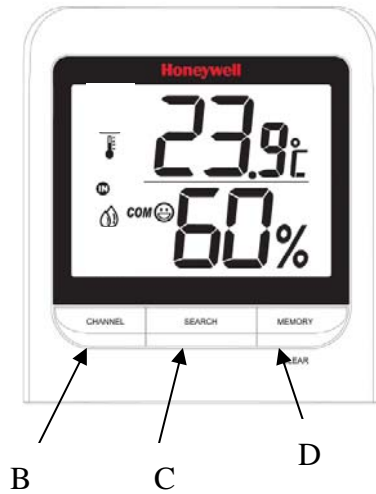
### **MAIN UNIT**

#### ***FEATURES***

- Wireless transmission of the temperature and humidity from the remote sensor to the main unit from up to 100 feet (30 meters) away
- Indoor temperature and relative humidity display
- Remote temperature and relative humidity display
- Auto scan feature
- Comfort level indicator
- User-selectable temperature display in Celsius or Fahrenheit
- Memory for the indoor and remote temperature and humidity readings
- Wall mount or desktop option
- Low battery indicator

## FRONT VIEW

### A. TEMPERATURE AND HUMIDITY INFORMATION IN A TWO LINE LCD DISPLAY



#### B. CHANNEL BUTTON

- Selects the desired remote channel or indoor readings

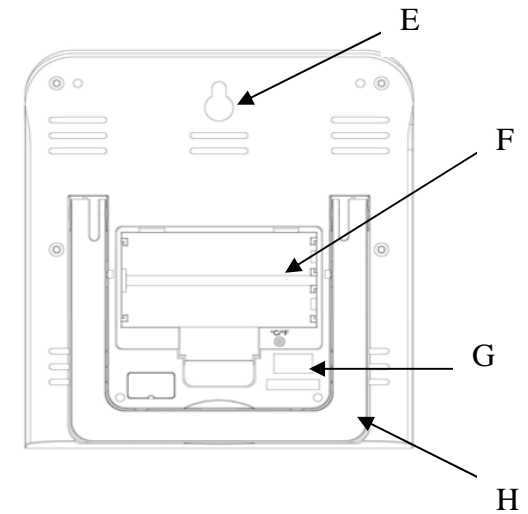
#### C. SEARCH BUTTON

- Enforces the remote sensors signal search

#### D. MEMORY BUTTON

- Toggles between current, minimum and maximum readings of the indoor and remote temperature and humidity
- Clears the maximum and minimum memory of registered temperature and humidity

## REAR VIEW



#### E. WALL-MOUNT RECESSED OPENING

- Keeps the main unit on the wall

#### F. BATTERY COMPARTMENT

- Accommodates 2 (two) UM-3 or AA 1.5V alkaline batteries.

#### G. C°/F° SWITCH (located inside the battery compartment)

- Selects temperature display in Celsius or Fahrenheit

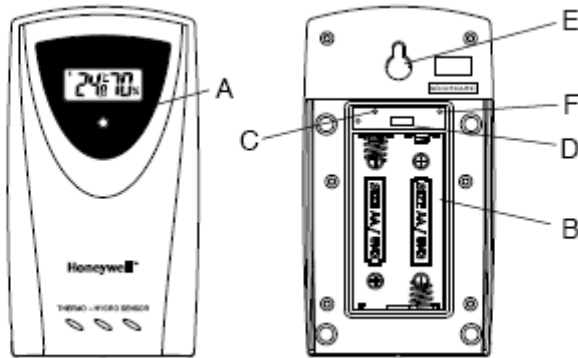
#### H. UNFOLDING TABLE STAND

- Supports the main unit on the flat surface

## REMOTE SENSOR

### FEATURES

- Remote temperature and humidity transmission to the main unit via 433 MHz signal
- 100 feet (30 meters) transmission range without interference
- LCD display of measured temperature and humidity
- Three (3) channels selection
- Selection of the temperature display in Celsius or Fahrenheit
- Case can be wall mounted using built-in hanger



### A. LED INDICATOR

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

### B. BATTERY COMPARTMENT

- Holds two AA-size batteries

### C. RESET

- Resets all readings

### D. CHANNEL SWITCH

- Selects the desired channel

### E. WALL-MOUNT RECESSED OPENING

- Keeps the remote sensor on the wall

### F. °C/ °F SELECTOR

- Selects the temperature display in Celsius or Fahrenheit

## BEFORE YOU BEGIN

- The remote sensor can be placed indoors or outdoors; the main unit must be placed indoors.
- We recommend using alkaline batteries for the remote sensor and main unit when temperatures are above 32°F (0°C). We recommend using AA lithium batteries for the remote sensor 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.
- **ALWAYS** install batteries in the remote sensor *before* the main unit.
- Press **RESET** after each battery change with a paper clip or similar tool.
- During an initial setup, place the main unit as close as possible to the remote sensor.
- After reception is established (the remote temperature will appear on the main unit's display), position the remote sensor and the main unit within the effective transmission range of 100 feet (30 meters).

## **NOTE:**

1. Avoid pressing any buttons on the main unit *before the remote temperature is displayed for about 2 minutes.*
2. The effective operating range may be influenced by the surrounding building materials and how the receiver and transmitter are positioned.
3. Place the remote sensor so that it faces the main unit (receiver), minimizing obstructions such as doors, walls, and furniture.
4. Though the remote sensors are weather-resistant, they should be placed away from direct sunlight, rain or snow.

**NOTE: When the temperature falls below freezing, the batteries in the outdoor remote sensor may have reduced voltage supply and a shorter effective range. We recommend using lithium batteries at temperatures of 32°F (0°C) and below.**

## **BATTERY INSTALLATION**

### **REMOTE SENSOR**


**NOTE: Install the batteries; select the channel and temperature in C° or F° before mounting the remote sensor.**

- Remove the screws from the battery compartment with a small Phillips screwdriver.
- Set the channel. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
- Install 2 “AA” size alkaline batteries (not included) matching the polarities shown in the battery compartment.
- Replace the battery compartment door and secure the screws.
- Secure the remote sensor in the desired location.

## **MAIN UNIT**

- Open the battery compartment door.
- Install 2 batteries (UM-3 or “AA” size 1.5V) matching the polarity as shown in the battery compartment.
- Replace the battery compartment door.

## **LOW BATTERY WARNING**

A low-battery indicator [  ] will appear on the indoor or remote temperature and humidity reading line of the main unit warning that the corresponding batteries need replacement.

## **GETTING STARTED**

After batteries are installed; remote sensor will transmit temperature readings at 45 second intervals. The main unit may take up to two minutes to receive the initial readings. Upon successful reception, remote temperature will appear on the larger section of the main unit’s display (the default remote channel is channel one). The main unit will automatically update readings at 45-second intervals.

If no signal is received from the remote sensor within two minutes, dashes [- - -] will be displayed. Press and hold the **SEARCH** button on the main unit for two seconds to initiate another signal search.

## **CHECKING REMOTE AND INDOOR TEMPERATURE AND HUMIDITY**

The default display shows the indoor temperature and humidity information (temperature is on the top, and humidity is on the bottom line). The **IN** icon indicates that the unit is displaying the indoor readings.

The remote temperature and humidity for channel one, two and three can be recalled by pressing **CHANNEL** button.

The wave icon is located above the remote channel number and indicates the reception status from the remote sensor.

The following three types of reception status may be displayed:

The unit is in searching mode.	
Temperature and humidity readings are securely registered.	
No signals detected.	---

**NOTE:** If the indoor or remote temperature and/or humidity goes above or below operating range stated in specifications, the main unit's display will show dashes “- - -”

### COMFORT LEVEL INDICATORS

The Wireless Thermo-Hygrometer is capable of detecting and displaying the present comfort levels for the surrounding environment. The environmental comfort level is detected, interpreted and displayed on the main unit's display based on the combination of the current indoor and remote temperature and humidity readings. The four following comfort levels may be shown: ☺ (comfort), ☹ (wet), ☺ (dry) and No Indicator.

Indicator displayed	Temperature Range	Humidity Range	Shows current condition
☺	20°C to 25°C (68°F to 77°F)	40%RH- 70%RH	Ideal for both relative humidity and temperature
☹	-5°C to 50°C (23°F to 122°F)	OVER 70%RH	Contains excess moisture
☺	5°C to 50°C (23°F to 122°F)	BELOW 40%RH	Contains inadequate moisture

### MAXIMUM AND MINIMUM MEMORY

The maximum and minimum record of the indoor and remote temperature and humidity will be automatically stored in the memory of the main unit (receiver).

To display the minimum, maximum or the current reading press the **MEMORY** button after desired mode (indoor or remote) is selected.


If no button is pressed for the next 15 seconds, the unit will return to the current temperature and humidity display for applicable mode.

To clear the memory, press and hold the **MEMORY** button for two seconds and all previously stored readings will be erased.

### AUTO-SCANNING

Press and hold the **CHANNEL** button for 2 seconds – the icon “🔍” will appear on the main unit display above the **COMFORT LEVEL** indicator. The indoor temperature and all 3 remote temperatures will be

displayed one-by-one automatically for 4 seconds each in the following sequence: Indoor, Channel 1, Channel 2 and Channel 3.

To exit from scanning mode, press and hold the **CHANNEL** button for 2 seconds, and the icon “

## LOST COMMUNICATION

If the main unit display mode for the remote sensor reading shows dashes (- - -), press and hold the **SEARCH** button for 2 seconds to begin a new signal search (the signal search icon will flash above the remote channel number).

If the signal isn't received within two minutes, please make sure that:

- The remote sensor is in its proper location.
- The distance between main unit and remote sensor is not over 100 feet (30meters).
- The path between units is clear of obstacles. Shorten the distance if necessary.
- Fresh batteries are installed correctly in both remote sensor and main unit.
- Batteries were inserted into the remote unit first and the main unit next.

If there is still no communication, please perform the following steps:

- Bring the main unit and remote sensor close together.
- Remove the four (4) small screws from the back of the remote sensor with a small Phillips screwdriver and open the battery compartment.

- Remove the batteries from the battery compartment and reinstall them in the same manner. Remote sensor LED indicator will flash showing transmission of the signal.
- Remove the batteries from the main unit and reinstall them in the same manner.
- The remote temperature appeared on the main unit's display will show that transmission is being received successfully.

## TRANSMISSION COLLISION

Signals from other household devices such as wireless doorbells, home security systems, and entry control may interfere with this product or cause temporary reception interruption. This is normal and will not affect the general performance of the product. The transmission and reception of the temperature readings will resume once the interference subsides.

## 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 units internal components. Doing so will

invalidate the warranty and may cause damage. These units contain no user-serviceable parts.

- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the units.

## **SPECIFICATIONS**

### ***Main Unit***

#### **Indoor Temperature**

Proposed operating range: -5.0°C to +50.0°C/23.0°F to 122.0°F

Temperature resolution: 0.1°C/0.2°F

User-selectable (F° or C°) temperature display

#### **Indoor Humidity**

Proposed operating range: 20% to 95%

Humidity resolution: 1%

Comfort Level Indicator – Comfort, Wet and Dry

Maximum number of remote sensors: 3 (one included)

Low battery indicator

### ***Wall Mount or Desktop option***

### ***Remote Sensor***

#### **Remote Temperature**

Proposed operating range with alkaline batteries:

-20.0°C to + 70.0°C/-4.0°F to + 158°F

Proposed operating range with lithium batteries:

-38.8°C to + 70.0°C/-38.0°F to +158°F

Temperature resolution: 0.1°C/0.2°F

#### **Remote Humidity**

Proposed operating range: 20% to 95%

Humidity resolution: 1%

Low battery indicator

RF Transmission Frequency: 433 MHz

RF transmission range: Maximum 100 feet (30 meters)

Temperature transmission cycle: approximately 45 seconds

### ***Power***

Main unit: 2 AA size (UM-3) 1.5V batteries (not included)

Remote Sensor: 2 AA size (UM-3) 1.5V batteries (not included)

### ***Dimensions***

Main unit: 4.33(L) x 4.86(H) x 1.08(D) inches

Remote sensor: 2.37(L) x 4(H) x 1(D) inch



## 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.: TM005X

Product Name: Wireless Thermo-Hygrometer

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 (refer to the Standard Warranty Information) for all injuries instead.**

## **STANDARD WARRANTY INFORMATION**

This product is warranted from manufacturing defects for one year from 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.hidekielectronics.us](http://www.hidekielectronics.us) . Click Online Product Registration under the Customer Support menu.

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

Please direct all returns to the place of the original purchase. Should this not be possible, contact Hideki Customer Service 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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Honeywell International Inc. makes no representations or warranties with respect to this product.

All user manual contents and information are subject to change.