Honeywell
Wireless In/Out Thermometer

(TE219ELW)
USER MANUAL

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INTRODUCTION
Thank you for selecting the Honeywell Wireless In/Out Thermometer. This device combines precise time keeping with monitoring and displaying the weather conditions from up to three remote locations.

In this package you will find:
- One main unit (receiver)
- One remote sensor (transmitter) TS13C
- 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
- Time automatically sets to the US Atomic Clock
- 12 or 24 hours Time Format
- Dual crescendo Time Alarm with Snooze
- Day of the week displayed in English, Spanish, French, German and Italian
- Wireless Reception of the Temperature from the Remote Sensor to the Main Unit from up to 100 feet (30 meters) away
- Multi-Channel Capability to Monitor Temperature in up to 3 Remote Locations
- Minimum and maximum memory for indoor and remote temperature
- Indoor and Remote Temperature display
- Programmable Ice Warning Alarm
- Low Battery Indicators
- Enhanced Blue Backlight
A. WEATHER AND TIME IN EASY-TO READ DIGITS

B. SNOOZE/LIGHT button
- Stops the clock’s alarm temporarily
- Activates a backlight for 5 seconds

C. CHANNEL button
- Recalls a different remote sensor reading – 1, 2 or 3
- Activates the remote channels search

D. UP (▲) button
- Increases the parameters
- Activates US Time Zone selection mode
- Activates manual search for atomic time signal
- Enables time alarms (W) and (S) and Ice Warning Alarm

E. MODE button
- Toggles between time modes - time with seconds and time with the day of the week
- Activates clock’s manual programming mode

F. DOWN (▼) button
- Decreases the parameters
- Activates manual remote channels search
- Disables time alarms (W) and (S) and Ice Warning Alarm

G. ALARM ON/OFF button
- Allows toggling between the calendar display and three time alarm modes
- Allows programming available alarms

H. MEM button
- Toggles between current, minimum, maximum readings of the indoor and remote temperature
- Clears the temperature memory
I. WALL-MOUNT RECESSED OPENING
• Keeps the unit on the wall

J. BATTERY COMPARTMENT
• Accommodates 2 (two) UM-3 or AA 1.5V alkaline batteries

K. REMOVABLE TABLE STAND
• Holds unit in upright position on a flat surface

REMOTE SENSOR

FEATURES
• Remote temperature transmission to the main unit via 433 MHz frequency
• Case can be wall mounted using built-in hanger
• Selection of the temperature display in Celsius or Fahrenheit
• Three channel selection
• LCD displays temperature, and channel

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 previous settings

D. CHANNEL SWITCH
• Selects the desired channel -1, 2 or 3

E. WALL-MOUNT RECESSED OPENING
• Keeps the remote sensor on the wall

F. °C/°F SWITCH
• Selects the temperature display in Celsius or Fahrenheit

BEFORE YOU BEGIN
• We recommend using alkaline batteries for the remote sensor and main unit when temperatures are above 32°F (0°C). We recommend using 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).
• ALWAYS install batteries in the remote sensor before the main unit.
• Insert batteries before first use, matching the polarity in the battery compartment
• Press RESET after each battery change with a paper clip or similar tool.
• Remove protective plastic screen from LCD display (if any).
• During an initial setup, place the main unit close 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).
• The remote sensor can be placed indoors or outdoors, depending
on the area where the temperature is intended to be measured. If you intend measuring outdoor elements, place remote sensor outdoors.

- The main unit must be placed indoors.

**NOTE:**
1. Avoid pressing any buttons on the main unit before the remote readings are displayed.
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. The best suggested location for the remote sensor for outdoors is under the eave on the north side of the building.

**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**

- Remove 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 next to the indoor or remote data reading line of the main unit warning that the corresponding batteries need replacement.

**GETTING STARTED**

**WEATHER DISPLAY**

After batteries are installed; remote sensor will transmit temperature data 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 top line of the main unit’s display (the default remote channel is channel one). The main unit will automatically update readings at 45-second intervals.

After communication between the main unit and remote sensor has been established, secure the remote sensor in the desired location.

If no signal is received from the remote sensor within two minutes, dashes [---] will be displayed. Press and hold the DOWN (▼) button on the main unit for two seconds to initiate another signal search.
PLACEMENT OF THE UNITS
The main unit can be placed on any flat surface indoors. The remote sensor can be placed indoors or outdoors, on a flat surface or mounted on the wall.

REMOTE AND INDOOR TEMPERATURE
The remote temperature information line is located on the top line of the main unit’s display.
The wave icon is located above the remote channel number indicates the reception status from the corresponding remote sensor.
There are three following types of the reception status may be displayed:

<table>
<thead>
<tr>
<th>The unit is in a searching mode.</th>
<th>.</th>
<th>📣</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature reading is securely registered.</td>
<td>📣</td>
<td></td>
</tr>
<tr>
<td>No signals detected.</td>
<td>- - -</td>
<td></td>
</tr>
</tbody>
</table>

The indoor temperature with the icon IN is located below the remote temperature information line.

NOTE: If the indoor or remote temperature goes above or below operating range stated in specifications, the main unit’s display (weather) will show dashes “- - -” on the corresponding line.

MAXIMUM AND MINIMUM READINGS
The maximum and minimum record of the indoor and remote temperature will be automatically stored in the memory of the main unit (receiver).
To display the minimum, maximum or the current reading press MEM button.
If no button is pressed for the next 15 seconds, the unit will return to the current temperature and humidity display.
To clear the memory, press and hold MEM (memory) button for two seconds and all previously stored readings will be erased.

LOST COMMUNICATION
If the main unit display line for the remote sensor reading goes blank, press and hold DOWN (▼) button for 2 seconds to begin a new signal search. If the signal still isn’t received, please make sure that:

- The remote sensor is in its proper location.
- The distance between main unit and remote sensor(s) is not over 100 feet (30 meters)
- 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.

If there is no reception, please perform the following steps:

- Bring the main unit and remote sensor close together.
- Remove four (4) small screws from the back of the remote sensor with 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.
- On the main unit select the same channel number using CHANNEL button as set on the remote sensor. The remote temperature appeared on the main unit’s display will show that transmission is being received successfully.
TRANSMISSION COLLISION
Signals from the 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.

WWVB RADIO CONTROLLED TIME
The NIST (National Institute of Standards and Technology) radio station (WWVB) is located in Ft. Collins, Colorado. It transmits an exact time signal continuously throughout the most of the continental United States at 60 KHz frequency. The Wireless In/Out Thermometer can receive this WWVB signal through the internal antenna from up to 2,000 miles away. Due to the nature of the Earth's ionosphere, reception can be limited during the daylight hours. The radio controlled clock will search for an alternate station that receives the atomic time signal from the NIST Atomic clock in Boulder, Colorado.

ATOMIC CLOCK
Immediately after establishing communication between the main unit and remote sensor, the atomic time signal receiver will open and start to search for the atomic time signal. The search usually takes between 5-8 minutes.

NOTE: Do not press any buttons on the main unit during auto search as it may interrupt product's operation, and you will need to start set up procedure again.

Once the atomic time signal is received, the date and time will be set automatically, and the [原子] icon will appear.

NOTE: It is necessary to set your Time Zone, having in mind that the default zone is a US Pacific Standard Time (PST). (Refer to MANUAL SETTINGS section)

If the time signal has not been received in 8 minutes, you may use the MODE button to set the time and date manually. (Refer to the MANUAL SETTINGS section).

After the clock is set manually, place the main unit by the window for the better reception. The atomic clock receiver is programmed that it will continue to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.

Once the time signal has been successfully received, the time and date will be updated automatically.

TIME AND CALENDAR DISPLAY MODES
The Wireless In/Out Thermometer displays current time in two display modes – in hour-minutes-seconds format and in hour-minutes-day.

The date is displayed in month-date format.
MANUAL SETTINOS

It is necessary to set the desired US TIME ZONE.

TIME ZONE

- Press MODE button once so that the Day of the Week abbreviation is displayed to the right of the time; for example: pm 2:37tu
- Select the Time Zone by pressing and holding UP (▲) button for 3 seconds
- Keep holding UP (▲) button until the desired US Time Zone (Pacific, Mountain, Central or Eastern) is highlighted on the display’s US map, located to the right of the time display and above the day of the week
- Release the UP (▲) button. The Time Zone is set

CLOCK

- Press and hold MODE button for 3 seconds: the year will flash. Press UP (▲) or DOWN (▼) to change flashing digits.
- After the year is set, press MODE button to confirm and move to the next parameter (month)
- Continue setting month, date, hour, minutes, language for the day of the week and temperature in Fahrenheit or Celsius
- Press MODE for the last time to return to the time of day with seconds, after the last parameter is set

CLOCK ALARMS

The Wireless In/Out Thermometer has two time alarms – Weekday alarm (W) and Single day alarm(S) - and one Ice Warning Alarm (PRE-AL).

- If Weekday (W) alarm is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays
- If Single (S) day alarm is activated, it will sound at the set time and the alarm icon will flash only for this specific day and will not activate on subsequent days

- If Ice Warning Alarm (PRE-AL) is activated, in will sound at the set time and alarm icon will flash once the remote temperature for Channel One (1) will reach 32°F(0°C) and below

NOTE: Ice Warning Alarm can be set only if one or both - Weekday or Single alarm - are programmed.

SETTING THE WEEKDAY (W) AND SINGLE DAY (S) ALARMS

- Press ALARM button once to enter into the alarms setting mode. The default alarm is a Weekday alarm (W). The abbreviation “OFF” with a letter “W” next to it will be displayed, if the alarm has not been set previously
- Press and hold ALARM button for two seconds. The hour digit will flash
- Adjust the hour using UP (▲) or DOWN (▼) buttons
- Press ALARM button again. The minute digits will flash
- Adjust the minutes using UP (▲) or DOWN (▼) buttons
- Press ALARM button again to confirm and the weekday alarm time will be set
- Set Single (S) day alarm if desired in the same manner

SETTING THE ICE WARNING ALARM (PRE-AL)

If Weekday (W) or Single day (S) alarm is set, the Ice Warning Alarm (Pre-AL) can be programmed.

- Press ALARM button once to enter into the Ice Warning Alarm setting mode. The abbreviation OFF with a PRE-AL next to it will be displayed.
- Press and hold ALARM button for two seconds. The number 30 will flash, meaning that if selected, the alarm will sound 30 minutes earlier
than the Weekday or Single alarm.

- Select the desired Ice Warning Alarm interval in 15 minutes increments between 15 and 90 minutes, using UP (▲) or DOWN (▼) buttons
- Press ALARM button to confirm and exit from the alarm setting mode.

**ACTIVATING THE ALARM**

- Press ALARM button to enter into the desired alarm mode.
- Press UP (▲) to activate or DOWN (▼) to deactivate desired alarm. When alarms are activated, the corresponding icons W, S or PRE-AL will be displayed.

**SNOOZE**

When the time alarm sounds, press the SNOOZE/LIGHT button to temporarily stop it. After the SNOOZE/LIGHT is depressed, the time alarm sound will resume in four minutes.

If the alarm is not disabled after that, it will sound for two more minutes and then will stop by itself.

**BACKLIGHT**

The backlight feature is enabled only after the time is set.

To activate the backlight press the SNOOZE/LIGHT button once, and both – clock and weather station displays - will light up for five seconds.

**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.
## TROUBLESHOOTING
Check here before contacting customer service.

<table>
<thead>
<tr>
<th>Issue</th>
<th>Symptom</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main unit</td>
<td>US Atomic Time signal is not received</td>
<td>Place unit by the window and keep it there overnight</td>
</tr>
<tr>
<td>Remote sensor</td>
<td>Cannot locate remote sensor</td>
<td>Check batteries</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Check location</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Press and hold <strong>DOWN (▼)</strong> button on the main unit to search for the signal from the remote sensor</td>
</tr>
<tr>
<td></td>
<td>Cannot change the channel</td>
<td>Press &quot;<strong>RESET</strong>&quot; after setting the channel</td>
</tr>
<tr>
<td></td>
<td>Cannot change the C° to F° and back</td>
<td>Press &quot;<strong>RESET</strong>&quot; after setting C/F</td>
</tr>
<tr>
<td></td>
<td>Data does not match data on the main unit</td>
<td>Initiate manual sensor search (Press and hold <strong>DOWN (▼)</strong> button on the main unit)</td>
</tr>
</tbody>
</table>

## SPECIFICATIONS

### Main Unit
**Indoor Temperature**
- Proposed operating range: 23.0°F to 122.0°F (-5°C to +50°C)
- Temperature resolution: 0.2°F (0.1°C)
- User-selectable (°F or °C) temperature display
- Maximum number of remote sensors: 3 (one included)
- RF range: Maximum 100 feet (30 meters)
- Readings update interval: every 45 seconds
- EL backlight
- Low battery indicators – for each remote channel and main unit

**Clock**
- Precise atomic time
- 4 US Time Zones
- 12/24 hour time format
- Crescendo 4 minutes alarm with 5 minutes snooze

### Remote Sensor
**Remote Temperature**
- Proposed operating range with alkaline batteries: -4°F to +158°F (-20°C to +70°C)
- Proposed operating range with lithium batteries: -38.8°F to +158°F (-38.8°C to +70°C)
- Temperature resolution: 0.1°C/0.2°F
- RF Transmission Frequency: 433 MHz
- Temperature transmission cycle: approximately 45 seconds
- Low battery indicator
- Wall-mount of Table stand

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

### Dimensions
- Main unit: 3.33(L) x 6.19 (H) x 1.11(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 has 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
declare that the product
Product No.: TE219ELW
Product Name: Honeywell Wireless In/Out Thermometer
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.honeywellweatherstations.com](http://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 at 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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All user manual contents and information are subject to change.