

Honeywell
Atomic Clock
with Wireless
Indoor/Outdoor
Thermometer

USER MANUAL

(TE211W)

INTRODUCTION

Thank you for selecting the Honeywell Atomic Clock with Indoor/Outdoor Thermometer.

This device includes precise time keeping and temperature monitoring features that you can use from the comfort of your home.

In this package you will find:

- Main unit (receiver)
- Remote sensor (transmitter) TS03

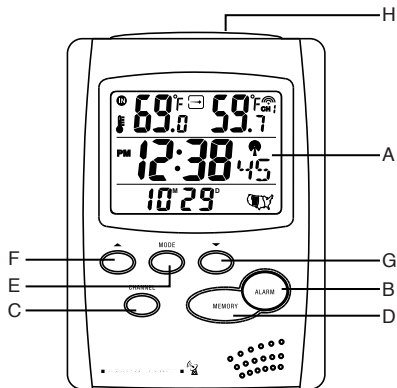
Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.

PRODUCT OVERVIEW

MAIN UNIT

FEATURES

- Wireless sensor transmits temperature to the main unit from up to 100 feet away
- Multi-channel capability to monitor temperature in up to 3 remote locations
- Indoor and Outdoor temperature display
- Precise time and date set via RF signals from the US Atomic Clock
- Calendar displays date with month & weekday in English, Spanish, French, German or Italian
- Dual crescendo alarm with snooze
- Programmable low-temperature pre-alarm warns about icy or inclement weather conditions
- Wall mount or desktop option
- Blue Backlight



A PRECISE TIME WITH TEMPERATURE IN THREE-LINE LCD DISPLAY

View of indoor/outdoor temperature and precise time.

B ALARM BUTTON

Sets an alarm and allows displaying alarm status.

C CHANNEL BUTTON

Recalls the different remote sensor reading.

D MEMORY BUTTON

- 1). Recalls maximum or minimum temperature.
- 2). Clears the memory.

E MODE BUTTON

Changes display modes and confirms settings.

F UP (▲) BUTTON

- 1). Increases the setting.
- 2). Enables atomic clock reception.
- 3). Activates Time Zone settings.
- 4). Activates alarm.

G DOWN (▼) BUTTON

- 1). Decreases the setting.
- 2). Activates the remote sensors search.
- 3). Disables the alarm.

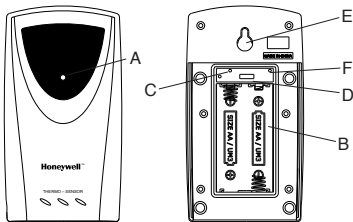
H SNOOZE/LIGHT BUTTON

- 1). Activates snooze function and LCD backlight.
- 2). Stops alarm temporarily.

REMOTE SENSOR

FEATURES

- Remote temperature transmission to the main unit via 433 MHz signal
- Case can be wall mounted using built-in hanger
- 100 feet transmission range without interference
- Temperature display selection in Fahrenheit or Celsius
- Transmission channel selection



A LED INDICATOR

Flashes once when the remote sensor transmits the reading to the main unit.
Flashes twice indicating low battery.

B BATTERY COMPARTMENT

Holds two AA-size batteries.

C RESET

Resets all previous settings.

D CHANNEL SWITCH

Selects the desired channel.

E WALL-MOUNT RECESSED HOLE

Keeps the remote sensor on the wall.

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F °C/ °F SWITCH

Selects the temperature display unit in Celsius or Fahrenheit.

BEFORE YOU BEGIN

1. We recommend using alkaline batteries for the main unit and remote sensor.
2. Avoid using rechargeable batteries.
3. Insert batteries before first use, matching the polarity as shown in the battery compartment.
4. Always install batteries in the remote sensor before the main unit.
5. Press RESET after each battery change, using a paper clip or similar tool.
6. During an initial setup, place the main unit as close as possible to the remote sensor.
7. After reception is established (remote temperature will appear on the receiver's display), position the remote sensor and main unit within the effective transmission range of 100 feet.

NOTE:

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

BATTERY INSTALLATION

REMOTE SENSOR

NOTE: Install the batteries; select the channel and type of temperature (°C/°F) before you mount the sensor.

1. Remove the screws from the battery compartment with a small Phillips screwdriver.
2. Set the channel. The switch is located in the battery compartment. Channel 1 is typically selected if only one remote sensor is being used.
3. If you are using more than one sensor, select a different channel for each sensor.

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4. Install two "AA" size alkaline batteries (not included) matching to the polarities shown in the battery compartment.
5. Replace the battery compartment door and secure the screws.
6. Secure the remote sensor in the desired location.

BATTERY INSTALLATION:

MAIN UNIT


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

LOW BATTERY WARNING

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

GETTING STARTED

After batteries are installed, remote sensors will transmit temperature readings at 45 second intervals. The main unit may take up to 2 (two) minutes to receive the initial readings. Upon successful reception, remote temperature will be displayed. Then the main unit will automatically update readings at 45-second intervals.




If no signals are received from the remote sensor(s) within (2) two minutes, dashes " - - ." will be displayed. Press and hold [] button on the main unit for 2 seconds to initiate another signal search.

CHECKING REMOTE AND INDOOR TEMPERATURES

The wave icon on the main unit's display located near the remote sensor reading line, indicates a good reception from the remote sensor. If the temperature goes above or below the temperature operating range stated in specifications, the display will show dashes " - - .".

READING THE KINETIC WAVE DISPLAY

The kinetic wave display shows the main unit (receiver) signal reception strength.

The unit is in searching mode.	
Temperature readings are securely registered.	
No signals.	

WWVB RADIO CONTROLLED TIME

The NIST (National Institute of Standards and Technology) radio station is located in Ft. Collins Colorado. It transmits an exact time signal continuously throughout the continental United States at 60 KHz frequency. The Atomic Clock can receive this WWVB signal through its 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 its signal from the NIST Atomic clock in Boulder, Colorado.

The WWVB tower icon on the main unit's display will flash indicating radio signal reception from the WWVB station. If the tower icon is not fully lit, or if the time is not set automatically, please consider the following:




- * During night-time hours, atmospheric disturbances are typically less severe and reception may improve. A single daily reception is sufficient enough to keep the accuracy reading within 1 second.
- * Make sure the main unit is positioned at 8 feet minimum distance from any interference source such as a TV, computer monitor, microwave, etc. The successful reception of the atomic time signal depends on the positioning and location of the clock. Always place the main unit by the window for better reception.
- * Within concrete wall rooms such as basements or office buildings, the received signal may be weakened. Always place the unit near the window.

MAXIMUM AND MINIMUM TEMPERATURE

The maximum and minimum record of the indoor and remote temperature will be automatically stored in the memory of the main unit (receiver). Main unit will display the minimum, maximum and the current reading upon each press of **MEMORY** button. The unit will return to the current temperature display in 15 seconds. To clear the memory, press and hold "MEM" for 3 seconds and all stored readings will be erased.

TEMPERATURE TRENDS

The remote temperature trend indicator shows the trend of temperatures collected at particular remote sight. There are three trends will be shown: rising, steady, and falling.

Arrow indicator			
Temperature Trend	Rising	Steady	Falling

LOST COMMUNICATIONS

If the main unit display for the remote sensor goes blank, press and hold [▼] button for 2 seconds to begin a new signal search. If the signal still isn't received, please make sure that:

1. The remote sensor is in its proper location.
2. The distance between main and remote units is not over 100 feet.
3. The path between the units is clear of obstacles. Shorten the distance between units if necessary.
4. Fresh batteries are installed correctly in both remote and main units.

Note: When the temperature falls below freezing, the batteries in outdoor remote sensors may have reduced voltage supply and a shorter effective range. We recommend to

Use lithium-ion batteries at the temperatures below 32°F

If everything listed above is in order and there is no reception anyway, please perform the following steps:

1. Bring main unit and remote sensor close together.
2. Remove 4 small screws from the back of the remote sensor and open the battery compartment.
3. 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.
4. Remove the batteries from the main unit and reinstall them in the same manner.
5. On the main unit select the same channel number as set on the remote sensor. Outdoor temperature on the display will show that transmission is being received successfully.

TRANSMISSION COLLISION

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

ATOMIC CLOCK

1. After the main unit receives temperature readings from the remote sensor(s), the WWVB time signal receiver will automatically search for the time signal. This takes about 5-8 minutes.
2. If the radio signal is received, the date and time will be set automatically, and the [🕒] icon will appear.
3. If in 8 minutes the time signal has not been received, press "**MODE**" button to set the time manually. Always place the main unit by the window for better reception.
4. The clock will continue to search for the WWVB time signal daily for every hour between 1:00 am and 4:30 am. After the signal has been successfully received, the time and date will be updated automatically.

CALENDAR AND CLOCK DISPLAY MODES

Date is displayed in month-date format. Each press of the **MODE** button will change the clock display setting between the time with seconds and time with weekday.

SETTING CLOCK MANUALLY TIME ZONE

1. Press **MODE** to select the time display with weekday.
2. Select the time zone by pressing and holding the “▲” button for 3 seconds.
3. Keep holding until the desired time zone (Pacific, Mountain, Central or Eastern) is selected on the display map.

YEAR, DATE, TIME, TEMPERATURE UNIT

Press and hold **MODE** for 3 seconds: the year will flash. Press “▲” or “▼” to change the flashing digits. After the first value is set, press **MODE** again. Continue setting month, day, 12 or 24 time format hour, minutes, language of weekday, and Fahrenheit or Celsius display. When you've set the last value, press **MODE** for the last time to return to regular mode.

SETTING THE ALARM

To set any alarm,

1. Press [**ALARM**] once to display alarm time.
If the alarm is off, “OFF” will be displayed.
2. Press and hold [**ALARM**] for two seconds.
The hour digit will flash.
3. Enter the hour using [▼] or [▲].
4. Press [**ALARM**] again. The minute digits will flash.
5. Enter the minutes using [▼] or [▲].
6. Press [**ALARM**] again to exit.
7. Repeat the same procedure to set the next alarm.

SNOOZE

When the alarm sounds, press the **SNOOZE/LIGHT** button to temporarily stop the alarm. After depressing **SNOOZE/LIGHT** button, the alarm sound will resume in 5 minutes. If the alarm is not disabled after that, it will sound for 4 more minutes and then will stop by itself.

DISABLING ALARM

Press [**ALARM**] button on the main unit to disable an alarm.

ALARMS

- * Weekday Alarm
The alarm will sound and the alarm icon will flash at the set time Mondays through Fridays.
- * Single Day Alarm
The alarm will sound and the alarm icon will flash at the set time, but will not activate on subsequent days.
- * Pre-Alarm
If an outdoor temperature is 32° F / 0° C or below, the pre-alarm feature will be activated. The pre-alarm time interval can be set for 15, 30, 45, 60 or 90 minutes before the weekday or single alarm time. Press and hold [**ALARM**] button for two seconds in Pre-Alarm mode to set the pre-alarm interval.

“(tW)” (Weekday alarm), “(tS)” (Single day alarm), and “Pre-AL” (Pre-alarm) icons will indicate which alarm mode is armed. You can enable or disable an alarm by pressing the [▲], [▼] buttons in alarm display mode. Press **MODE** to toggle between alarm modes or to return to the default display.

PRECAUTIONS

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

1. Do not immerse the units in water.
2. Do not clean the units with abrasive or corrosive materials.
They may scratch the plastic parts and corrode the electronic circuits.
3. 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.
4. 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.
5. Use only fresh batteries. Do not mix new and old batteries.
6. Read the user's manual thoroughly before operating the units.

SPECIFICATIONS

Temperature Measurement

Main unit

Indoor Temperature	
Proposed operating range	: -5.0°C to +50.0°C / 23.0°F to 158.0°F
Temperature resolution	: 0.1°C/ 0.2°F

Remote Sensor

Proposed operating range with alkaline batteries	: -20°C to + 70°C / -4°F to 158°F
Proposed operating range with lithium batteries	: - 38°F to 158°F (-38.8 C° to 70°C)
Temperature resolution	: 0.1°C/ 0.2°F

RF Transmission Frequency	: 433 MHz
Maximum number of Remote sensors	: 3
RF Transmission Range	: Maximum 100 feet
Temperature sampling cycle	: approximately 45 seconds

Calendar and Clock

12/24 hour display in hh : mm format
Date Format: Month – Day format
Day of week: User- selectable in 5 languages
(English, Spanish, French, German, Italian)
Dual 4-minute crescendo alarm with snooze
Pre-alarm for ice alert with programmable intervals of
15, 30, 45, 60 and 90 minutes
Blue Backlight

Power

Main unit: 2 AA batteries (not included)
Remote Sensor: 2 AA batteries (not included)

Dimensions

Main unit: 3.54(L) x 4.92(H) x 1.89(D) inches
Remote sensor: 2.38(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 generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, 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 try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
4. 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.: TE211W
Product Name: Atomic Clock with Wireless
Indoor/ Outdoor 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:

1. 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 contact for support or sales. Please call our customer service hotline (refer to the warranty statement) for all inquiries instead.

STANDARD WARRANTY INFORMATION

This product is warranted from the 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. 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 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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