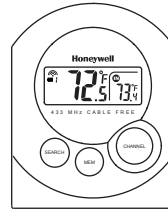


# Honeywell

## In/Out Thermometer with Remote Sensor



(TM004)  
USER MANUAL

HONEYWELL (CSN) TM004 & TS03C MANUAL (ENG)  
SIZE: W65 X H105 (mm)  
BY WING TSUI 03/05/06

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### INTRODUCTION

This device displays and monitors temperature from two locations.

In this package you will find:

- One Main Receiver Unit
- One Remote Transmitter Sensor
- One User Manual

Please keep this manual handy as it contains practical step-by-step instructions, as well as technical specifications and precautions you should know for operation.

### BEFORE YOU BEGIN

NOTE: **Always** install the batteries into the remote sensor *before* the main unit.

- The remote sensor can be placed indoors or outdoors, the main unit must be placed indoors only.
- Recommend using alkaline batteries for the remote sensor and main unit when temperatures are above 32°F, Recommend using lithium batteries for the remote sensor when temperatures are below 32°F.
- Avoid using rechargeable batteries (rechargeable batteries cannot maintain correct power requirements of this unit).
- Press RESET after each battery change with a paper clip or similar tool.
- During initial setup make sure to place the main unit and remote sensor as close as possible.
- After reception has been established and displayed on LCD screen, position the main unit and remote sensor in desired location (within the effective transmission range of 100 feet).
- Signals from other household devices such as wireless doorbells, home security systems and entry control devices may interfere with the transmission or cause temporary reception interruption. This is normal and will not affect the general performance. The transmission and reception of the temperature readings will resume once the interference subsides.

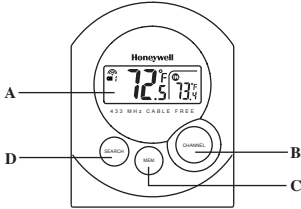
## PRODUCT OVERVIEW

### MAIN UNIT

#### FEATURES

- Wireless transmission of the temperature from the remote sensor to the main unit transmits from up to 100 feet away.
- Remote temperature display.
- Indoor temperature display.
- User selectable temperature display in degrees Fahrenheit or Celsius.
- Memory for indoor and remote temperature readings.
- Wall mount or desktop option.
- Low battery indicator.

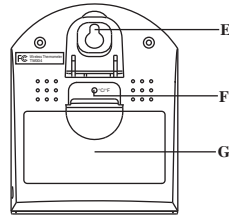
#### FRONT VIEW



- A. Split LCD Temperature Display Screen** - Displays both indoor and outdoor temperatures.
- B. Channel Button (CHANNEL)** - Recalls the remote channel and indoor reading (1,2 or 3).
- C. Memory Button (MEM)** - Switches between current, minimum and maximum readings of the indoor and remote temperatures. Also clears the minimum and maximum temperatures in memory. (See page 10)
- D. Search Button (SEARCH)** - Forces the main unit to search for remote sensor signals.

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#### BACK VIEW



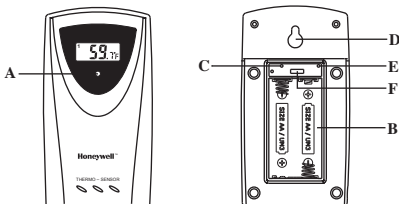
- E. Wall Mount Recessed Hole** - For hanging the main unit on the wall. Check with your local hardware store for correct hardware for hanging unit.
- F. °C / °F Button (°C / °F)** - Selects temperature display in Celsius or Fahrenheit.
- G. Battery Compartment** - Accommodates 2 x AA batteries.

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## REMOTE SENSOR

### FEATURES

- Remote temperature transmission to the main unit via a 433 MHz signal.
- Wall mount or desktop option.
- 100 feet transmission range (with no interference.)
- User selectable temperature in Fahrenheit or Celsius.
- Channel selection.



- A. LED Indicator** - Flashes once when the remote sensor transmits a reading to the main unit. Flashes twice when battery is low.
- B. Battery Compartment** - Accommodates 2 X AA batteries.
- C. Reset** - Resets all readings.
- D. Wall Mount Recessed Hole** - Keeps the main unit on the wall. Check with your local hardware store for correct hardware for hanging unit.
- E. °C / °F Button (°C / °F)** - Selects temperature to be displayed in Celsius or Fahrenheit.
- F. Channel Button** - Selects the desired channel you would like the temperature to be transmitted through (1,2 or 3).

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## BATTERY INSTALLATION

**NOTE: ALWAYS install the batteries into the remote sensor before the main unit.**

### REMOTE SENSOR

- Remove the 4 screws from the Battery Compartment (B) with a small Phillips screwdriver.
- Set the Channel Button (F) located inside the battery compartment. Select from Channel 1,2 or 3. Channel 1 is the default channel.
- Install 2 X "AA" batteries (not included) making sure to match the polarity shown in the battery compartment. **NOTE: When the temperature falls below freezing, the batteries in the outdoor remote sensor may have reduced voltage supply and a shorter effective range. Recommend using lithium batteries for temperatures below 32°F.**
- Replace the battery compartment door and securely replace the screws.

### MAIN UNIT

- Open battery compartment on back of main unit.
- Install 2 X "AA" batteries (not included) making sure to match the polarity shown in the battery compartment.
- Replace the battery compartment cover.
- The Main Unit will default to Celsius readings. To change to Fahrenheit press the °C / °F Button (°C / °F) button on the back of the Main Unit.

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### GETTING STARTED



After the batteries have been installed the remote sensor will transmit temperature readings at about 45 second intervals. The main unit may take up to 2 minutes to receive the initial reading. **NOTE:** Avoid pressing any buttons on the main unit before the remote temperature is displayed. Upon successful reception the 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 signals are received from the remote sensor within 2 minutes, dashes [ --- ] will be displayed. Press and hold the SEARCH button on the main unit for 2 seconds to initiate another signal search.

### CHECKING REMOTE AND INDOOR TEMPERATURES

The remote temperature information is located on the larger section of the main unit's display. The wave icon is located above the remote channel number and indicates the reception status for the remote sensor.

There are 3 types of reception status that may be displayed:

<b>Flashing:</b> Unit is in Search Mode	
<b>Steady:</b> Temperature readings are registered	
<b>Dashes:</b> No signal detected	-----

The indoor temperature with the icon IN is located next to the remote temperature information section.

**NOTE:** If the indoor or remote temperature goes above or below operating range (as noted on page 9) the main unit's display will show [ - - ].

### LOST COMMUNICATION

If the main unit display line for the remote sensor reading goes blank, press and hold the Search Button (SEARCH) for 2 seconds to begin a new signal search. If the signal is still not received, make sure:

- The remote sensor is in its proper location.
- The distance between the main unit and the remote sensor is not over 100 feet.
- The path between the main unit and remote sensor is clear of obstacles. Shorten the distance if necessary.

If there is still no communication:

- Bring the Main Unit and Remote Sensor close together.
- Replace old batteries with new batteries and make sure they are installed correctly in both units. Make sure to install in Remote Unit first.
- Remove the screws from the Battery Compartment with a small Phillips screwdriver. Remove the batteries from the Battery Compartment and reinstall 2 new "AA" batteries making sure to match the polarity shown in the battery compartment. Replace the battery compartment cover and screws. The remote LED Sensor indicator will flash showing that a signal is trying to be transmitted.
- Remove the batteries from the main unit and reinstall them in the same manner. The remote temperature will appear on the main unit's display once the transmission has been received successfully.

### MAXIMUM AND MINIMUM READINGS

Both the Main Unit and Remote Sensor maximum and minimum temperatures are automatically stored in the memory of the Main Unit.

To toggle between the maximum and minimum or current reading repeatedly press the Memory Button (MEM). If no button is pressed for the next 15 seconds the unit will return to the current temperature display.

To clear the maximum and minimum memory press and hold the Memory Button (MEM) for 2 seconds and all previously stored readings will be erased.

### PRECAUTIONS

- Do not immerse the unit in water.
- Do not clean the unit with abrasive or corrosive materials, they may scratch the plastic parts and corrode the electronic circuits.
- Do not subject the Main Unit or Remote Sensor to excessive force, shock, dust, temperature, or humidity that may result in malfunctions, shorter lifespan, damaged batteries or damaged parts.
- Do not tamper with the unit's internal components. Both units contain no user-serviceable parts.
- Do not mix new and old batteries.
- Read user's manual thoroughly before operating.

### SPECIFICATION

#### MAIN UNIT

Records indoor temperature  
Proposed Operating Range: 23°F to 122°F / -5°C to 50°C  
Temperature Resolution: 0.2°F / 0.1°C  
User-Selectable (°F or °C) Temperature Display  
Low Battery Indicator  
Wall Mount or Desktop Option

#### REMOTE SENSOR

Records 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°F to 158°F / -38.8°C to 70°C  
Temperature Resolution: 0.2°F / 0.1°C  
Low Battery Indicator  
RF Transmission Frequency: 433 MHz  
RF Transmission Range: Maximum of 100 feet  
Temperature Transmission Cycle: approximately 45 seconds

#### POWER

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