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# Weather Station

*Wireless Operation*



## Instruction Manual and Warranty Information

DWS-150

El manual en  
español empieza a  
la página 13

**2** year  
limited warranty

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IB-DWS150

## GETTING STARTED

- IMPORTANT: Insert batteries into the home receiver unit first.**  
**Home Receiver:** Lift off the battery cover on the back of the home receiver. Install 2 alkaline AA batteries (included) according to the polarity indicated. Close the battery cover.  
**Remote Sensor:** Loosen the 4 screws securing the battery cover with a small screwdriver (included) and remove. Insert 2 alkaline AA batteries according to the polarity direction indicated. Replace the cover and tighten the 4 screws.
- Place the home receiver as close as possible to the remote sensor. This will help with synchronization between the two units.
- REMEMBER:** Once you are ready to position your remote sensor and the home receiver, ensure that the distance is not outside the effective transmission range (100 feet). Some building materials and location of the home receiver or remote sensor can affect transmission quality and range. Try various locations for best results.

**NOTE: There are no consumer serviceable parts. All questions or service request should directed to our consumer relations department.**  
*(See Warranty section for contact information.)*

## SETTING TIME

### RADIO-CONTROLLED CLOCK

The home receiver will start synchronizing the clock after the 1st channel of the RF thermometer is registered.

- At normal mode, hold the " - " button located on the back of the home receiver for 3 seconds to force synchronization.
- The antenna icon will appear during the synchronization process (on the right side of the time display).
- If the icon disappears afterwards, radio time signal is not available at that moment. Try setting the home receiver in other locations. Remember to place the unit away from sources of interference such as mobile phones, appliances, TV etc.
- Antenna icon will appear on screen if the radio time reception is successful. The radio-controlled clock will have a daily synchronization

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at 1:00 am everyday. If previous attempts of reception were unsuccessful, the home receiver will attempt synchronization each hour until successful.

- Each reception cycle is minimum 2 minutes and maximum 10 minutes.

### TIME ZONE SELECTION

Press " - " button on back of home receiver to select from the following time zones in the U.S. (zone is displayed in the upper right hand corner of time display).

P - Pacific Standard Time      M - Mountain Standard Time  
 C - Central Standard Time      E - Eastern Standard Time

### MANUAL SETTING FOR CLOCK & CALENDAR

- Hold "SET" button for 3 seconds to enter clock set.
- First, select 12 hour or 24 hour setting using the " + , - " buttons located on the back of the home receiver. Press "SET" button to confirm.
- Select Hour** - Use the " + , - " buttons located on the back of the home receiver to adjust hour setting. Press "SET" button to confirm.
- Select Minute** - Use the " + , - " buttons located on the back of the home receiver to adjust minute setting. Press "SET" button to confirm.
- DST On/Off** (Daylight Savings Time) - Use the " + , - " buttons to turn DST on or off. Press "SET" button to confirm.

Now you will select the calendar settings-

- Select Year** - Use the " + , - " buttons located on the back of the home receiver to adjust year setting. Press "SET" button to confirm.
- Select Month** - Use the " + , - " buttons located on the back of the home receiver to adjust month setting. Press "SET" button to confirm.
- Select Day** - Use the " + , - " buttons located on the back of the home receiver to adjust day setting. Press "SET" button to confirm.
- Select Fahrenheit/Centigrade Temperature Readings** - Use the " + , - " buttons located on the back of the home receiver to toggle between Fahrenheit or Centigrade readings. Press "SET" button to confirm.

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## SETTING ALARM TIME

1. Hold the "CLEAR" button for 3 seconds. Press " + , - " on the back of the unit to enter the desired Hr/ Min values. Press "CLEAR" to confirm.
2. **To view alarm time** - Press "CLEAR" button. Alarm time will display for 5 seconds and then resume to normal clock thereafter.
3. **To select between daily alarm and snooze alarm or alarm off** - Press " + " button on the back of the unit.  
For Daily Alarm - The "☺" icon will appear in the upper left corner of the time display.  
For Snooze Alarm - The "Z" icon will appear in the upper left corner of the time display (see photo to the right).  
No Alarm - The "☺" icons will not be shown.
4. The home receiver will provide either a daily alarm, which last for 2 minutes or a snooze mode where the alarm will repeat every 8 minutes until manually cleared (see SNOOZE/LIGHT section below.)

## SNOOZE/ LIGHT

1. Press the **SNOOZE/ LIGHT** button for an extended backlight.
2. In snooze alarm mode, press this button to trigger a repetitive snooze alarm.
3. When daily alarm mode is selected, press " +/☺ " button on back of home receiver to turn off the alarm for one day.

## MIN/ MAX MEMORY SETTINGS

1. Press "MIN/ MAX" button to view the maximum values for 5 seconds. Press again to view the minimum values.
2. To clear the memory record, press "CLEAR" while the respective values are displayed on screen.

## TEMPERATURE TREND INDICATOR:

In the upper right hand corner of the home receiver LCD display, you will see one of 3 icons;

- ↗ will indicate **Rising Temperature** readings if it changes more than 1 degree in an hour
- will indicate **Steady Temperature** readings
- ↘ will indicate **Falling Temperatures** if it is more than 1 degree in an hour.

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## TEMPERATURE/ HUMIDITY ALERT

Press "ALERT" to turn temperature & humidity alert on and off.

1. Hold "ALERT" button located on back of home receiver for 3 seconds to enter the alert setting mode. The indoor icon will flash.
2. Press " + , - " to select the between indoor temperature, indoor humidity or remote sensor channel 1 to be alerted to. Press "ALERT" to confirm your selection. The Upper pointer and the value on the LCD display will flash, enter the desired upper limit with the " + , - " buttons, press "ALERT" to confirm your selection and then go to the lower limit setting.
3. The Lower pointer and value will flash, enter the desired lower limit with " + , - " buttons, press "ALERT" to confirm and exit.
4. You may enter an alert setting for the indoor temp, indoor humidity and temperature of the remote sensor channel 1.
5. When temperature hits the limit of your preset levels, the Upper/Lower pointers and the temperature of the respective channel (indoor or remote sensor channel 1) will flash and produce an audible alarm. Press any button on the home receiver to acknowledge and stop the alarm.

## LOW BATTERY INDICATION

Low battery indication is available for the home receiver and the remote sensor. "LO" will be displayed on the remote sensor. A battery life "█" icon will be shown on the home receiver or on the remote sensor. Replace the batteries as necessary and follow the setup procedure as mentioned earlier in this instruction manual.

## MOUNTING INSTRUCTIONS

Both the home receiver and remote sensor come with a table stand or they can be wall mounted.

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#### Table Top -

For the home receiver, fold out the base on the back of the unit and snap into place. For the remote sensor, simply pull out the integrated stand from the bottom.

#### Wall Mounting -

For the home receiver - Snap stand in upright position. Set a screw (not included) into the desired wall and place unit onto the screw using the back side hanging hole.

For the remote sensor - Set a screw into the desired hanging location and mount.

## MAINTENANCE AND CARE INSTRUCTIONS

- Extreme temperatures, shock or areas of unusual vibration should be avoided to prevent damage to the units.
- Clean the units using only a soft, damp cloth to wipe. Do not use solvents, abrasives, detergents or other strong cleaning agents. After cleaning, wipe surfaces with a dry cloth.
- Do not submerge units in water or other liquids.
- Do not subject the units to extremely severe temperatures - DO NOT PLACE UNITS INTO OVENS, FREEZERS or MICROWAVE OVENS.

## NOTES

- Opening the housing of either the remote sensor or the home receiver will invalidate your warranty. Do not attempt to repair this unit. There are no consumer serviceable parts.
- If you encounter any difficulties in setting up your wireless thermometer system, please contact Consumer Relations.
- Your new RF Thermometer is built with random security

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code technology. The home receiver will learn the random code of the first remote sensor and log it in as channel 1. Channel 2 and Channel 3 will be registered in the same way if additional sensors are used. The home receiver can monitor up to 3 separate sensors.

- Once a channel is registered, it will not accept any new sensors. However, registered channels can be erased by removing the batteries in the remote sensor or the home unit.
- When replacing batteries for the remote sensor - Remember to clear the corresponding channel of the home receiver by removing the batteries -OR- Select the respective channel of the sensor by pressing the CHANNEL button on the home receiver. Hold the CHANNEL button for 3 seconds to clear the registration.
- When replacing batteries for the home receiver - Please remove the batteries of all remote sensors. Once you have replaced the home receiver batteries, re-install the batteries to the sensors according to the desired channel sequence. This will ensure that the home receiver and the remote sensors are properly synchronized.
- Press the Tx button on the back of remote sensor to verify the RF reception.
- It is recommended to test the home receiver and the remote sensor next to each other to ensure that both are properly synchronized.
- Keep the remote sensor out of direct sunlight and rain. Do not mount on a metal surface.

### About the Atomic Clock

The National Institute of Standard and Technology (NIST) in Fort Collins, Colorado broadcasts the time signal (WWVB at 60kHz AM radio signal) with an accuracy of 1 second per every 3,000 years. The signal will cover a distance up to 2,000 miles from the source. Like a typical AM radio, your Atomic Clock will not be able to receive the WWVB signal in places surrounded by heavy concrete or metal panels. The reception of the time signal can be affected by mobile phones, TV, electrical appliances or other electronic interference. To get the best performance of the Atomic clock, please install the home receiver near a window and away from large metallic objects. If the unit is not working properly, change the unit position. There may be some interference at this location.

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## TROUBLE SHOOTING

### Indoor and Outdoor temperatures do not match when placed next to each other -

Each sensor is manufactured to be +/- 2 degrees in accuracy under normal conditions. So it is possible to have up to four degrees difference shown on the separate temperature sensors (one could be "+2 degree" and the other "-2 degrees". Additionally, the calibration curve is different between the two units because of the greater temperature range of the outdoor sensor. Errors are usually noted on the extreme ends of the temperature ranges.

### Base unit is not accepting remote transmissions -

The units may not be properly synchronized or the batteries may need to be replaced. See "GETTING STARTED" section beginning on page 2 of the instructions for detailed instructions. With the two units next to each other, attempt synchronization. Remember to always place the remote sensor within the effective transmission range and away from large metal surfaces.

### What is the recommended battery type?

Your units will come with 4 "AA" alkaline batteries (2 "AA" batteries required for each unit). We recommend using only alkaline batteries for replacements.

### Where can I mount the remote sensor?

To get accurate readings and to prolong the life of your sensor, we recommend that you mount it out of direct sunlight and rain. Fog and mist will not affect the sensor, but large volumes of soaking rain may. To guard against this, we recommend that you mount it under the eave of your house, your garage or any other suitable place that will keep it out of direct sun and rain.

### Outdoor Temperature Reading shows "- -"

This is usually an indication that the channel selector (located in the top left corner of the home receiver) is set incorrectly to receive the signal from the remote sensor. If you have only one remote sensor, ensure that the channel selector is set to "1". To change the channel, press the "channel" button located on the front of the home receiver.

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The home receiver may also be "scrolling" - looking for sensor readings from more than one remote sensor. This home receiver can support up to three remote sensors (only one is included). If it is looking for more than one remote sensor, a "C" icon will appear below the channel designator. Again, to select a reading from just one remote sensor, press the "channel" button to remove the scroll icon and ensure that the channel selected now reads "1".

### FCC DISCLAIMER

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.

Freq. 434 MHz

FCC ID: L5C0761TX-1 (Transmitter)

## SPECIFICATIONS

Range of temperature/humidity measurement:

Indoor temp : +32 F to +122 F (0 C to + 50 C)

Indoor humidity: 20% to 99% RH

Remote sensor: -4 F to +140 F (-20 C to +60 C)

Channel: max. 3 remote sensors

Temp. Alert: Indoor Temp/ Humidity and Ch 1

Transmission: max. 100 ft. (30 m) open area, RF434 MHz




Resolution: 0.1 degree for temperature, 1% for humidity

Clock: WWVB Radio-controlled

Batteries: (4) Alkaline AA batteries; 2 home receiver  
2 remote sensor

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**Name and Functions of Buttons:**

	<u>Functions</u>	<u>If button is held down</u>
<b>SET</b>	--	Enter clock & calendar setting
<b>+ / </b>	1 step forward, Snooze Alarm on/ off	Fast advance
<b>- / </b>	1 step backward Select PST, MST, CST, EST	Fast backward Atomic time seek
<b>CLEAR  / ALARM</b>	Clear memory at Min/ Max display Read alarm time 5 sec at normal mode	Alarm time setting
<b>MIN/MAX</b>	Read minimum/ maximum record 5 sec	
<b>ALERT</b>	Temp alert on/ off	Enter temp alert setting
<b>CHANNEL</b>	Select Channel 1,2,3, auto scroll	Delete current channel
<b>SNOOZE/ BACKLIGHT</b>	Backlight on 5 seconds, Trigger snooze alarm, stop alarm	

