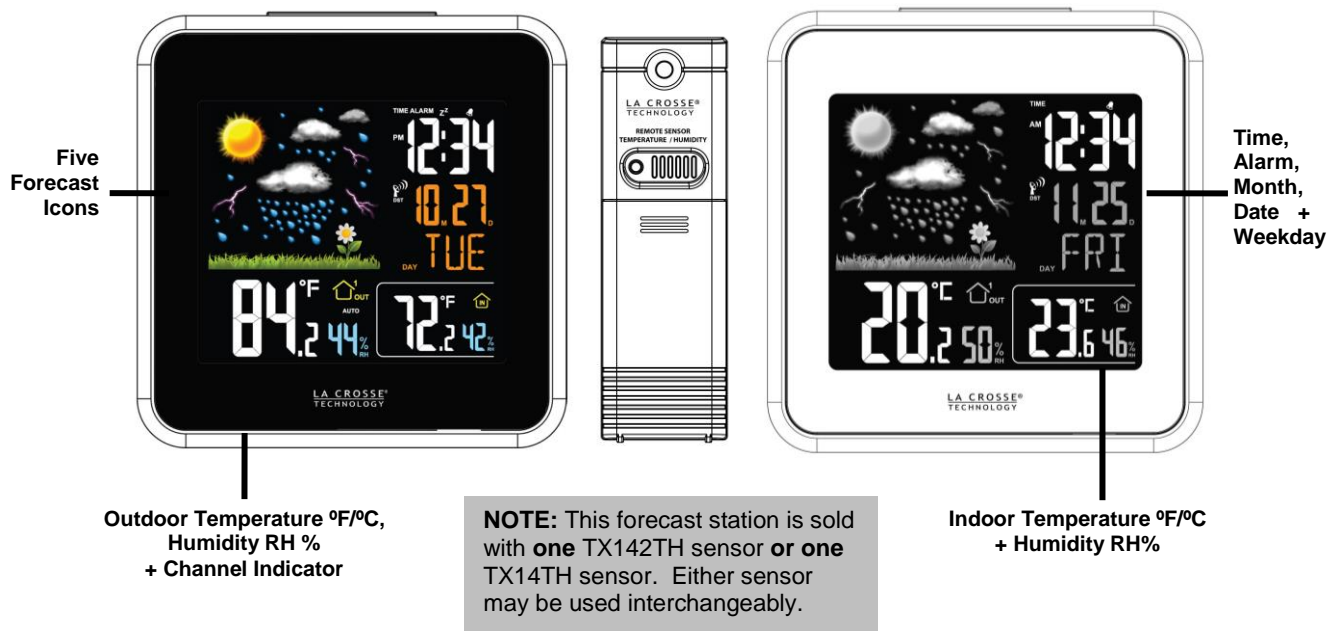


The Wireless Color Forecast Station features atomic time, weather forecast, indoor and outdoor temperature/humidity as well as heat index and dew point, on a stylish, colorful, and easy to read display. It has a USB charging port to charge your smartphone or other device. Transmission range of over 300 feet (91 meters) in open air, from sensor to forecast station.

## Wireless Color Forecast Station



## Initial Setup

- Step 1:** Insert the included 5-volt AC power adapter into the wall outlet then into the forecast station.
- Step 2:** Insert 3 new "AA" batteries (not included) into the forecast station. Observe the correct polarity.
- Step 3:** Insert 2 new "AA" batteries (not included) into the outdoor sensor. Observe the correct polarity. The red LED will flash when transmitting.

### RESTART:

- If the outdoor temperature is not displayed after 3 minutes, unplug the AC adapter and remove batteries from the forecast station & sensor for 15 minutes.
- Return to **Step 1** above.

### ATOMIC SIGNAL SEARCH:

The LCD backlight and USB charging port will momentarily turn off while the station searches for the atomic signal. After the initial search, this station will only search for the atomic signal after midnight.

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## Features

- Atomic time and date (auto sets)
- 12/24 hour time with snooze alarm and alarm icon
- Charge devices with USB charging port
- Calendar display: month, day, date
- Heat index and dew point
- Forecast: sunny, partly sunny, cloudy, rainy and stormy
- 12 hour forecast based on changing barometric pressure
- IN / OUT temperature (°F / °C)
- IN / OUT humidity (%RH)
- MIN / MAX records (24-hour readings)
- Time zone selection: Atlantic Time (AST), Eastern Time (EST), Central Time (CST), Mountain Time (MST), Pacific Time (PST), Alaskan Time (AKT) and Hawaiian Time (HAT)
- Light up the forecast station with a press of a button using battery power OR continuous light using the AC adapter with ON / OFF option
- LCD light dimmer for nighttime use
- Low battery icon for forecast station and sensor
- Sits on desktop or tabletop
- 3 "AA" Alkaline batteries (not included) OR optional 5.0V AC adapter (included)

## Power the Forecast Station

The forecast station can be powered by the 5-volt a/c adapter or batteries.

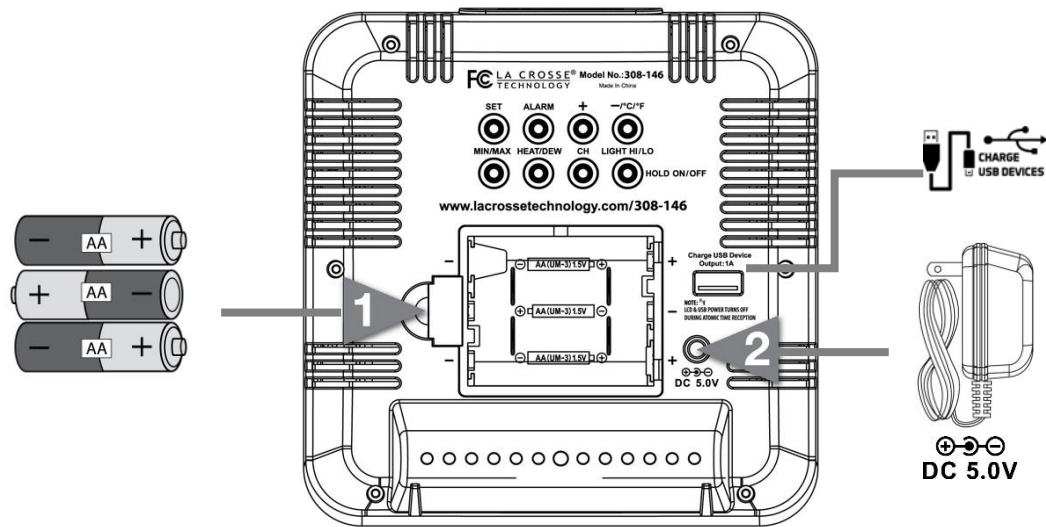
### A/C Power Adapter

- Insert enclosed 5-volt a/c power adapter into a wall outlet, then into the forecast station.

### Batteries

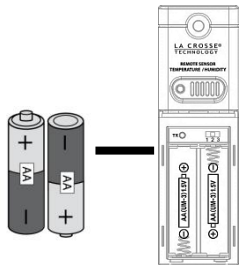
1. Remove battery cover: Slide tab to the right and pull out to remove battery cover.
2. Install three fresh AA batteries according to the polarity markings.
  - Do Not Mix Old and New Batteries
  - Do Not Mix Alkaline, Lithium, Standard, or Rechargeable Batteries

**NOTE:** If the forecast station does not display indoor temperature after 60 seconds, remove adapter and batteries, and wait for at least 60 seconds before repeating the setup process.



### Install Batteries in the TX142TH Sensor

- Slide the battery cover down, then lift off the front of the TX142TH sensor.  
**Note:** Be careful not to break the tabs on the battery cover.
- Confirm the channel selector switch is on channel 1.
- Insert two new AA batteries into the sensor.  
 Observe the correct polarity.  
 Keep sensor 5-10 ft. from the forecast station during setup.
- After 15 minutes, if the outdoor temperature shows on the forecast station, move the outdoor sensor outside to a shaded location within range of the forecast station.

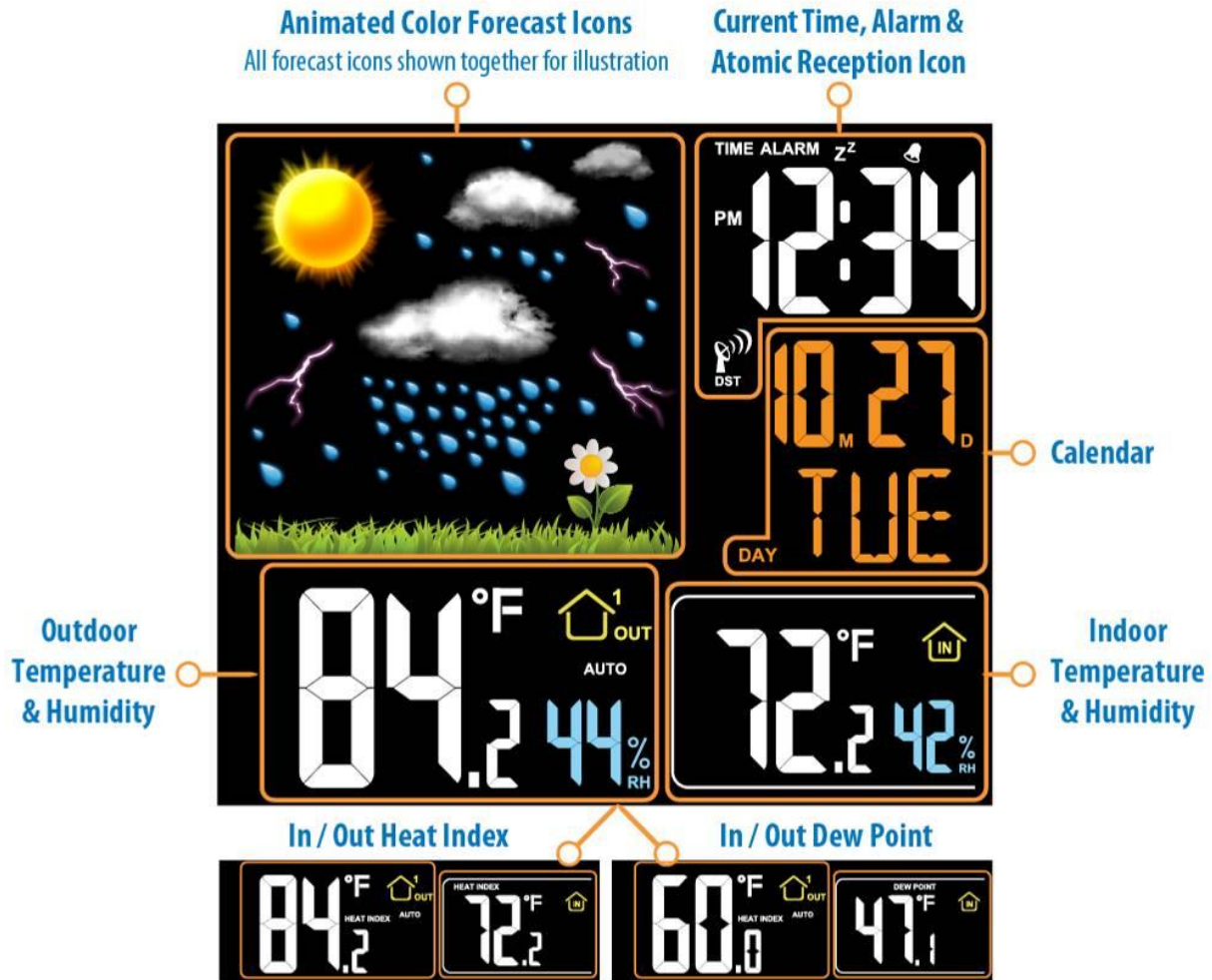


### Function Buttons

Button	Press and Release Functions	Hold 3-5 seconds
<b>SET</b>	Move through program menu Confirm setting.	Enter program menu, set time, date, etc.
<b>ALARM</b>	View Alarm Activate/Deactivate Alarm	Alarm set
<b>+ /RCC</b>	1 step forward (setup)	Search for WWVB signal Fast advance (setup)
<b>- /°C/°F</b>	Select temperature in °C/° F 1 step backward (setup)	Fast backward (set)
<b>MIN/MAX</b>	1-time MAX values 2-times MIN values	Resets all MIN / MAX values
<b>HEAT/DEW</b>	1-time Heat Index 2-times Dew Point	
<b>CH</b>	Switch channels (when using multiple sensors)	Search for remote sensor
<b>LIGHT HI/LO HOLD ON/OFF</b>	Dim backlight for night time.	Turn continuous backlight ON or OFF (a/c adapter)
<b>LIGHT/SNOOZE (top)</b>	Activates backlight when using only batteries. Trigger snooze alarm	

## LCD Screen

The LCD screen is split into 5 sections displaying the information for time, calendar, weather forecast, indoor data, and outdoor data.



## Program Menu

The SET button will move through the items in the program menu. The +/RCC or -/°C/°F button will change these values.

- WWVB reception ON or OFF
- Time Zone (Seven Time Zones)
- Daylight Saving Indicator
- 12/24 hour time format
- Manual time set (Hour, Minutes)
- Calendar set (Year, Month, Date)

### WWVB Reception ON/OFF

The WWVB time reception defaults to ON. To turn the WWVB reception OFF:

1. Hold the SET button for 5 seconds.
2. WWVB and ON will flash.
3. Press and release the +/RCC or -/°C/°F button to turn this OFF.
4. Confirm with the SET button and move to the Time Zone.

WWVB

ON

## Time Zone

This forecast station offers seven time zones listed in letter format (default is EST):

TIME ZONE	
AST	Atlantic
EST	Eastern
CST	Central
MST	Mountain
PST	Pacific
AKT	Alaska
HAT	Hawaiian

1. **EST** will flash.
2. Press and release the +/RCC or -/°C/°F button to select a different Time Zone.
3. Confirm with the SET button and move to Daylight Saving Indicator.

## Daylight Saving Time Indicator

DST will default to the ON position as most of the country observes the DST change. This should be in the ON position all year long. If you live in an area does not observe the DST change, switch this to the OFF position.



1. **DST** and **ON** will flash.
2. Press and release the +/RCC or -/°C/°F button to turn DST to OFF.
3. Confirm with the SET button and move to 12/24 hour time format.

## 12-hour or 24-hour Time Format

The Time may be displayed in 12-hour or 24-hour format. Default is 12-hour time.

**Note:** When in 12-hour format AM or PM will show in front of the hour.



1. **12H** will flash.
2. Press and release the +/RCC or -/°C/°F button to select 24-hour time.
3. Confirm with the SET button and move to Set Time.

## Set Time

To set the time manually:



1. The **hour** digit will flash.
2. Press and release the +/RCC or -/°C/°F button to select the hour.
3. Press and release the SET button to set the minutes.
4. The **minute's** digit will flash.
5. Press and release the +/RCC or -/°C/°F button to select the minutes.
6. Confirm with the SET button and move to Set Calendar.

## Set Calendar

To set the calendar:



1. The **year** will flash.
2. Press and release the +/RCC or -/°C/°F button to set the year (between year 2010-2039).
3. Press the SET button again to confirm and to enter the month setting.
4. The **month** will flash.
5. Press and release the +/RCC or -/°C/°F button to set the month.
6. Press the SET button again to confirm and enter the date setting.
7. The **date** will flash.



- Press and release the +/RCC or -/°C/°F button to set the date.
- Confirm all calendar settings with the SET button to confirm and exit the program menu.

**Note:** The day of the week will set automatically once the year, month and date are set.



### Fahrenheit/Celsius

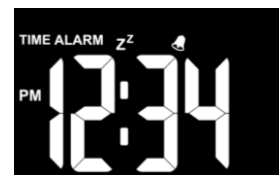
- Press and release the -/°C/°F button once to switch from Fahrenheit to Celsius.




### Alarm Set

Hold the ALARM button for 5 seconds to enter the alarm time set mode.


- The alarm hour digit will flash.
- Press and release the +/RCC or -/°C/°F button to select the hour.
- Press and release the SET button to set the minutes. The minute digits will flash.
- Press and release the +/RCC or -/°C/°F button to select the minutes.
- Confirm with the SET button and exit.
- The alarm icon  will show above the minutes indicating the alarm is active.
- The alarm icon  will flash when the alarm is sounding.



### Deactivate Alarm

- Press and release the ALARM button once to show Alarm Time.
- Press and release the ALARM button to deactivate the Alarm. The  alarm icon will disappear indicating the alarm is no longer active.

### Snooze

- When the alarm sounds, press the SNOOZE/LIGHT button to trigger snooze alarm for 10 minutes. The snooze icon Zz will flash when the snooze feature is active.
- To stop alarm for one day, press ALARM button, while in snooze mode. The alarm icon  will remain solid.

**Note:** When the alarm sounds, it continues for 2 minutes and then shuts off completely.

### USB Charge Port

Charge a smart phone, camera or other devices when the forecast station is plugged into a power outlet with the included 5V AC adapter.

**Note:** This is a power-output charging port. It does not supply power to the forecast station.



- Connect your external device's USB charging cable (not included) to the USB charging port.
- Charging times will vary.
- USB Power Output: 1A maximum current. Charge 1A devices or devices that are self-regulating.

**Note:** Some USB cables are for data transfer only and cannot be used for charging. Make sure that the USB cable you use will charge your device. Most USB cables included with mobile devices will work for charging.

#### **ATOMIC SIGNAL SEARCH:**

The LCD backlight and USB charging port will momentarily turn off while the station searches for the atomic signal. After the initial search, this station will only search for the atomic signal after midnight.

### **Backlight**

#### **A/C Adapter**

The backlight can show continuously when operating the forecast station with the 5-volt a/c adapter. If the backlight is not on continuously, hold the HOLD ON/OFF button until the station beeps. The backlight should show.

1. **HIGH:** The backlight defaults to HIGH (brightness) when the a/c adapter is in use.
2. **LO:** Press and release the LIGHT HI/LO button to dim the brightness of the backlight.
3. Press and release the LIGHT HI/LO button again to return to full strength (HIGH).

**Note:** When the Adapter is NOT in use, the High/Low backlight feature is not available.

1. **OFF:** Hold the HOLD ON/OFF button for 5 seconds, until the station beeps, to turn the backlight off to sleep.
2. **ON:** Hold the HOLD ON/OFF button again until the station beeps, to turn the backlight on.

**Note:** When the backlight is off, press any button to activate the backlight for 8 seconds, and then it will turn off again.

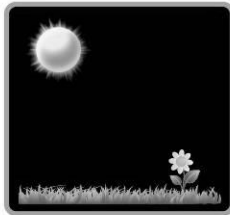
#### **Battery Power**

Press and release the SNOOZE/LIGHT button and the backlight will show for 8 seconds, when operating on batteries only.

### **Weather Forecast Icons**

The forecast station unit predicts weather condition for the next 12-hours based on the change of atmospheric pressure. As weather conditions cannot be 100% correctly forecasted we cannot be responsible for any loss caused by an incorrect forecast.





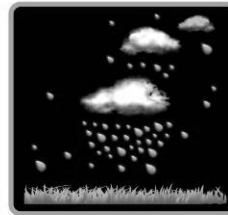
SUNNY



PARTLY CLOUDY



CLOUDY



RAINY



STORMY

### INTELLIGENT WEATHER FORECAST

This station learns. Please allow 3 to 4 weeks for barometric calibration. This will ensure an accurate personal forecast for your location.

As the forecast station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the forecast station operates in one location the more accurate the forecast icons will be.

The icons forecast the weather in terms of getting better or worse and not necessarily sunny or rainy as each icon indicates. For example, if the current weather is cloudy and the rainy icon is displayed, it does not mean that the product is faulty because it is not raining. It simply means that the air pressure has dropped and the weather is expected to get worse but not necessarily rainy.

Common to weather forecasting, absolute accuracy cannot be guaranteed. The weather forecasting feature is estimated to have an accuracy level of about 75% due to the varying areas the forecast station has been designed for use. In areas that experience sudden changes in weather (for example from sunny to rain), the forecast station will be more accurate compared to use in areas where the weather is stagnant most of the time (for example mostly sunny).

### MIN/MAX Temperature Data

This forecast station features daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The forecast station automatically resets the min/max temperatures at midnight (12:00 AM).

#### View Min/Max

- **MAX:** From a normal display press and release the MIN/MAX button once to view maximum temperature and humidity values for Indoor and Outdoor data. The word MAX will appear next to the indoor and outdoor temperature.
- **MIN:** From a normal display press and release the MIN/MAX button twice to view minimum temperature and humidity values for Indoor or Outdoor data. The word MIN will appear next to the indoor and outdoor temperature.

#### Reset Min/Max

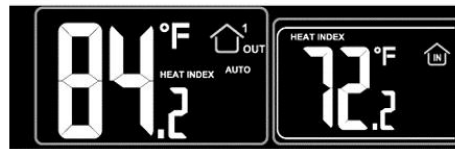
Hold the MIN/MAX button for 5 seconds to manually reset each indoor and outdoor minimum and maximum value. (The forecast station automatically resets the min/max temperatures at midnight: 12:00 AM).

**Note:** If you are using multiple sensors connected to the forecast station, all channels will reset at the same time.

## Heat Index

Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot it feels to a human being. When relative humidity increases, the air feels warmer than it actually is because your body is less able to cool effectively by evaporation of perspiration.

### In / Out Heat Index



**View Heat Index:** From a normal display press the HEAT/DEW button once and the Heat Index will show instead of the ambient temperature. The words Heat Index will show near the indoor and outdoor temperatures.

**Note:** Heat index will be the same number as the temperature until the temperature is above 80 degrees °F (26.7°C).

## Dew Point Temperature

Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to create condensation. The higher the dew points, the higher the moisture content of the air at a given temperature. Dew Point Temperature is the absolute measure of the moisture in the air at a given temperature. Relative humidity is the relative measure of moisture in the air at a certain temperature.



### In / Out Dew Point



**View Dew Point:** From a normal display press the HEAT/DEW button twice and the Dew Point temperature will show instead of the ambient temperature. The words Dew Point will show near the indoor and outdoor temperatures.

**Note:** Dew Point is lower than the actual temperature.

## Low Battery Icon

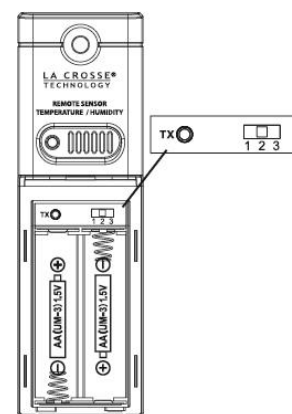
- When this icon  appears in the indoor (IN) data reading section, replace the batteries in the forecast station.
- When this icon  appears in the outdoor (OUT) data readings section, replace the batteries in the outdoor sensor.

## Use Multiple Outdoor Sensors

The forecast station will accommodate up to three remote outdoor sensors (TX142TH or TX14TH). The channel selection button allows you to easily see the temperature in various locations: outdoors, baby's room, greenhouse, basement, etc.

### To connect multiple remote sensors to the forecast station:

1. Remove the battery cover from all the sensors (Leave battery covers off until all sensors are received by the forecast station).
2. Set the **first** outdoor sensor to **Channel 1** and insert 2-AA batteries.
3. Set the **second** outdoor sensor to **Channel 2** and insert 2-AA batteries.
4. Set the **third** outdoor sensor to **Channel 3** and insert 2-AA batteries.
5. Press and hold CH button on the forecast station until a beep sounds. The forecast station will search for all outdoor sensors.
6. Press the TX button on each outdoor sensor to transmit RF signal.
7. When RF connection is established, the respective temperature & humidity for each of the selected channels numbers will appear on the main unit.
8. Allow the sensors and the forecast station to stay 5-10 feet apart for 15 minutes to establish a solid connection.
9. Install the battery covers on each sensor.
10. After 15 minutes place the remote sensors in appropriate locations (see "position the outdoor sensor").
11. Press and release the CH button to view channel 1, 2 or 3 on the forecast station when multiple sensors are used.



**Note:** You cannot change channels if only one sensor is connected.

### Channel Scroll

1. Press and release the CH button until the word **AUTO** appears in the outdoor data area. The forecast station will automatically rotate through the channels for all connected sensors.
2. Press and release the CH button to lock the forecast station into one channel. Then view channels individually with a press of the CH button.

### WWVB Radio-controlled Time

The NIST radio station, WWVB, is located in Ft. Collins, and transmits the exact time signal continuously throughout the United States at 60 kHz. The signal can be received up to 2,000 miles away through the internal antenna in the forecast station. However, due to the nature of the Earth's Ionosphere, reception is very limited during daylight hours. The forecast station will search for a signal every night when reception is best. The WWVB radio station derives its signal from the NIST Atomic Clock in Boulder, Colorado. A team of atomic physicists continually measures every second of every day to an accuracy of ten billionths of a second a day. These physicists have created an international standard, measuring a second as 9,192,631,770 vibrations of a Cesium 133 atom in a vacuum. This atomic clock regulates the WWVB sensor.

### WWVB Reception Icon




The WWVB time reception icon with full signal strength will appear on screen in front of the date when the reception of time is successful.

- The tower icon will show solid when the forecast station has received the WWVB signal.
- No tower icon is shown. The forecast station was unable to receive a signal at this time.
- Reposition the forecast station for better signal reception or try again at bedtime.
- The forecast station will start searching at UTC: 07:00 and if no reception on the first attempt they will try again at 08:00, 09:00 and 10:00. Each attempt will be at least 2 minutes and the most will be 10 minutes.
- If there is no signal or too much interference the receiver will only be on for 2 minutes.
- If the signal is good it may catch a signal in ABOUT 2-3 minutes.
- If the signal is marginal it will try to catch a signal for up to 10 minutes.
- **IMPORTANT:** When operating on a/c power, the backlight and USB charge port will turn off while the forecast station searches for the WWVB signal, to avoid interference. Both features will return after the 2-10 minute search which occurs during the late night or early morning hours.

**Note:** In case the forecast station is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.); the time may be manually set.

### Manual Signal Search

In normal mode, hold the RCC button until the reception icon appears to force a search of the WWVB signal. The WWVB icon  will flash during the search. If this icon disappears after the 2-minute search, the radio time signal is not available at the moment.

- Recommended distance to any interfering sources like computer monitors or TV sets is a minimum of 6 feet (2 meters).
- Within ferro-concrete rooms (basements, superstructures), the received signal is naturally weakened. In extreme cases, please place the unit close to a window and/ or point its front or back towards the Fort Collins, Colorado, sensor.
- During nighttime, the atmospheric disturbances are usually less severe and reception is possible in most cases. A single daily reception is adequate to keep the accuracy deviation below 1 second.

**Note:** In case the forecast station is not able to detect the WWVB-signal (disturbances, transmitting distance, etc.), the time and date can be manually set (see "program menu").

### Care and Maintenance

- **Do not mix old and new batteries**
- **Do not mix Alkaline, Standard, Lithium or Rechargeable Batteries**
- Always purchase the correct size and grade of battery most suitable for intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed with correct polarity (+and -).
- Remove batteries from equipment which is not to be used for an extended period of time.
- Remove expired batteries promptly.

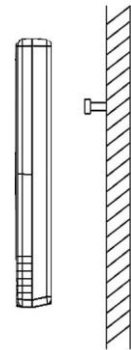
- Do not expose the forecast station to extreme temperatures, vibration or shock. Keep dry.
- Clean forecast station with a soft damp cloth. Do not use solvents or scouring agents.
- The forecast station is not a toy. Keep it out of reach of children.
- The forecast station is not to be used for medical purpose or for public information, but is determined for home use only.
- The specifications of this forecast station may change without prior notice.
- Improper use or unauthorized opening of housing will void the warranty.
- If the forecast station does not work properly, change the batteries and/or check the a/c cord connection.

### Position the Outdoor Sensor

Once the forecast station shows the outdoor temperature/humidity, place it and the sensor in the desired locations and wait approximately 1-hour before permanently mounting the sensor to ensure that there is proper reception. The sensor should be mounted vertically, in a shaded, protected area, at least 6 feet from the ground to avoid damage and ensure accurate readings. The sensor is water resistant, not waterproof and should not be placed anywhere it will become submerged in water or subject to standing water or snow. transmitting range in open air is over 200 feet (60 meters) from outdoor sensor to forecast station.

#### Option 1:

- Install one mounting screw (not included) into a wall leaving approximately ½ of an inch (12.7mm) extended.
- Place the sensor onto the screw, using the hanging hole on the backside.
- Gently pull the sensor down to lock the screw into place.



#### Option 2:

- Insert the mounting screw (not included) through the front of the sensor and into the wall.
- Tighten the screw to snug (do not over tighten).

To achieve a true temperature/humidity reading, mount where direct sunlight cannot reach the outdoor sensor. Mount the outdoor sensor on a North-facing wall or in any well shaded area. Under an eave or deck rail work well. The maximum transmitting range in open air is over 200 feet (60 meters). Obstacles such as walls, windows, stucco, concrete and large metal objects can reduce the range. Place the sensor at least 6 feet in the air to improve signal transmission.

### Outdoor Temperature/Humidity Flashing

- **Low battery icon present:** Change batteries in the sensor, and then hold the CH button until the station beeps to search for the outdoor sensor again.
- **End of Transmission Range:** Move the sensor closer to the forecast station. Avoid obstructions in the signal path. Keep sensor and forecast station away from electronics.

### Position the Forecast Station

1. The forecast station has a wide base to sit on a desk or table.
2. Choose a location 6 feet or more from electronics such as cordless phones, gaming systems, televisions, microwaves, routers etc.
3. Place within range of the outdoor sensor.

4. The maximum transmitting range in open air is 200-feet (60 meters). Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
5. For best WWVB reception orientate the forecast station with the front of the back facing Ft. Collins Colorado.

Specifications	
<b>Indoor:</b>	
Temperature Range:	+32°F to +122°F (0°C to 50°C)
Humidity Range:	19%-97% (RH)
Interval:	About every 30 seconds
<b>Outdoor:</b>	
Temperature Range:	-40°F to 140°F (-40°C to 60°C)
Alkaline Batteries:	-20°F to 140°F (-28.8°C to 60°C)
Lithium Batteries:	-40°F to 140°F (-40°C to 60°C)
<b>NOTE:</b>	Temperatures below - 20°F (-28.8°C) require Lithium batteries in the outdoor sensor.
Humidity Range:	19%-97% (RH)
Distance:	Over 300 ft. (91 meters) RF 433MHz (open air)
Interval:	About every 50 seconds
<b>Power:</b>	
Forecast Station	
Primary Power:	5-volt AC power adapter (included)
Optional/Battery Backup	Optional 3-AAA, IEC, LR3 batteries (not included)
TX142THv2 Sensor:	2-AA, IEC, LR6 batteries (not included)
<b>USB</b>	
USB Charge Port:	Output 1A
<b>Battery Life:</b>	
Forecast Station Battery Backup:	Battery life is over 24 months when using the AC adapter for primary power
TX142THv2 Sensor:	Battery life is over 12 months when using reputable battery brands for both Alkaline and Lithium batteries
<b>Dimensions:</b>	
Forecast Station:	6.3" L x 2.75" W x 4.25" H (160 x 70 x 108 mm)
TX142THv2 Sensor:	2.4" L x 1.3" W x 3.78" H (64 x 36 x 101mm)

## Warranty Information

La Crosse Technology, Ltd. provides a 1-year limited time warranty (from date of purchase) on this product relating to manufacturing defects in materials & workmanship.

**Before returning a product, please contact our friendly customer support with questions or visit our online help (manuals and FAQs):**

**Phone:** 1-608-782-1610

**Online Product Support:** [www.lacrossetechnology.com/support](http://www.lacrossetechnology.com/support)

**Product Registration:**

[www.lacrossetechnology.com/support/register](http://www.lacrossetechnology.com/support/register)

**View full warranty details online at:**

[www.lacrossetechnology.com/warranty\\_info.pdf](http://www.lacrossetechnology.com/warranty_info.pdf)

**Warranty Address:**

La Crosse Technology, Ltd

2830 S. 26<sup>th</sup> St.

La Crosse, WI 54601

**Protected under U.S. Patents:**

5,978,738 | 6,076,044 | RE43903



## FCC Statement

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 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into 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.

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

**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.**

### Caution!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

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