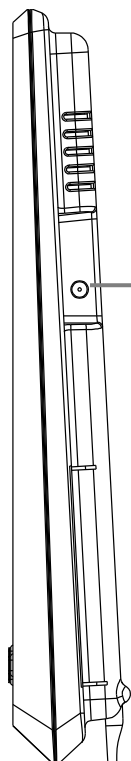


## High Resolution Display WIRELESS COLOR WEATHER STATION

SIDE VIEW



AC Power  
Jack  
DC 5.0V

Outdoor  
Temp, humidity  
+ Trends

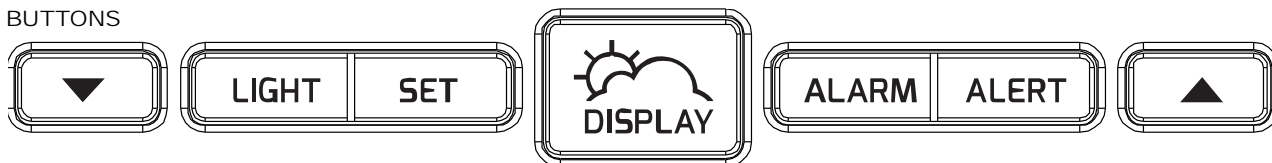
Day/Night  
Forecast + Trend  
Seasonal image  
change

Indoor  
Temp, humidity  
+ Trends

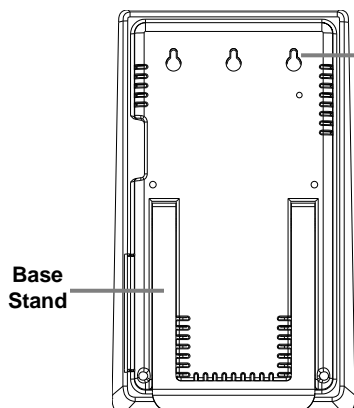
Time, Calendar,  
+ Time Alarm



BUTTONS

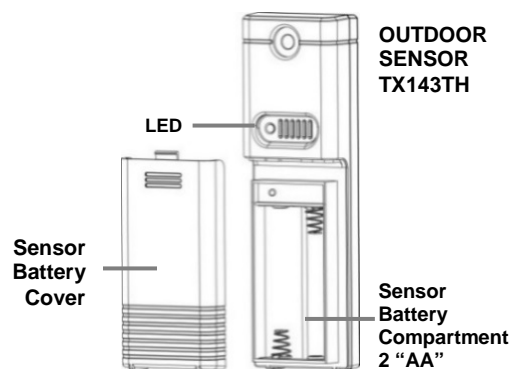


**Note:** Please allow for the LCD screen to respond when a button is pressed.



Hanging  
Keyholes

Base  
Stand



OUTDOOR  
SENSOR  
TX143TH

LED

Sensor  
Battery  
Cover

Sensor  
Battery  
Compartment  
2 "AA"

## Quick Setup

**Step 1:** Insert the 5 volt AC cord (included) into the wall outlet then into the weather station.

**Step 2:** Insert the 2 *new* AA batteries (included) into the TX143TH remote sensor. Observe the correct polarity. The red LED will flashes during transmission.

**Restart:** If there is no remote temperature data after 3 minutes, unplug the AC adapter and remove batteries from the remote sensor for 15 minutes. Return to **Step 1**.

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## Introduction

**La Crosse Technology® introduces a NEW vivid Color Weather Station** with a high resolution, liquid-crystal display. View forecast in detailed photo-color scenes, track indoor/outdoor temperature and humidity, and set temperature alerts-all on one device.

## Features

- Day/Night forecast icons and forecast tendency
- Photo-color forecast scenes picture background
- Forecast with tendency arrow: sunny, partly sunny, cloudy, rainy, stormy, snowy
- 12 hour forecast based on changing barometric pressure
- Time (manual set)
- 12/24 hour time format
- Perpetual Calendar (Day/Month/Date)
- Backlight options: Hi / Low / Off
- Low battery indicator for station and sensor
- Alarm Time with Snooze
- Indoor comfort level indicator
- Indoor humidity and trend with daily MIN/MAX
- Indoor temperature and trend with daily MIN/MAX
- Indoor temperature alerts (LOW/HI)
- Outdoor temperature and humidity
- Sensor strength indicator
- Barometric pressure history graph
- Outdoor humidity and trend with daily MIN/MAX
- Outdoor temp. and trend with daily MIN/MAX
- Heat Index/Dew Point readings
- Outdoor Temperature Alerts (LOW/HI)
- Indoor temperature and humidity
- Outdoor air condition
- Open/Close window suggestion to achieve ideal indoor comfort

## Detailed Setup: Weather Station and Remote Sensor

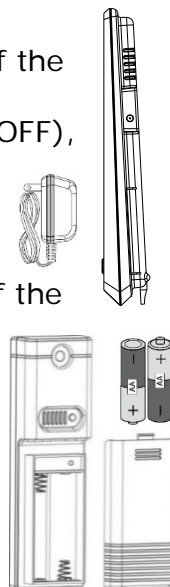
### STEP 1:

- Insert the 5-volt A/C power adapter into the designated area on the back of the Weather station.
- Plug the A/C power adapter into a wall outlet for continuous backlight (ON/OFF), and dimmer feature.

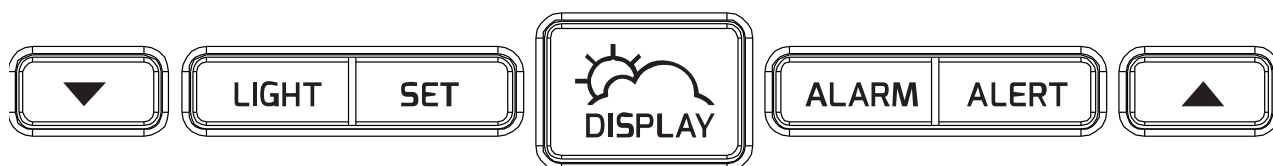
### STEP 2:

- Ensure that the sensor is within 10 feet of the Weather station.
- Remove battery cover from sensor. Slide the battery cover down and lift off the front of the sensor.
- Insert two new AA batteries into the TX143TH sensor. Observe the correct polarity.
- Within three minutes, the Weather station will show readings in the outdoor temperature area on the LCD.

**Note:** Use Alkaline batteries (or Lithium for temperatures below -20°F/-28.8°C).



## Button Functions



The weather station has 7 buttons across the front.

### ▼ (Down) Button:

#### Setting Modes-

- Press to decrease values during setting.
- **Hold** 2 seconds to quickly adjust values.

#### Temperature Alert-

- Press to arm or disarm temperature alerts

### LIGHT Button:

#### Default Time Display-

- Press to change the LCD backlight brightness. HI/LOW/OFF

#### Time Alarm-

- Press to activate the snooze function when alarming

### SET Button:

#### Default Time Display-

- **Hold** for 3 seconds to set time/calendar, etc.

## DISPLAY button

### Default Time Display-

- Press and release to change display screens: Forecast Screen, Indoor Screen, Outdoor Screen, Comfort Screen.

## ALARM Button:

### Default Time Display-

- Press once to show alarm time
- **Hold** for 2 seconds enter alarm setting mode

### Alarm Mode-

- Press to activate or deactivate time alarm.

## ALERT Button:

### Default Time Display-

- Press to toggle between Remote High Alert, Remote Low Alert, Indoor High Alert and Indoor Low Alert.
- **Hold** to enter Alert setting

## ▲ (UP) Button:

### Setting Modes-

- Press to increase the values during setting.
- **Hold** 2 seconds to quickly adjust values.

### Temperature Alert-

- Press to arm or disarm alerts

## Backlight Adjustments HI / LOW / OFF

- The back light defaults to HIGH intensity when the weather station is powered on.
- Adjust the backlight to LO or OFF with a press of the **LIGHT** button.
- Press the **LIGHT** button again to return to HIGH

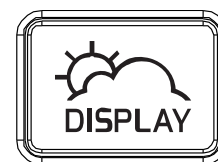


## LCD Screen Pages-Press DISPLAY button

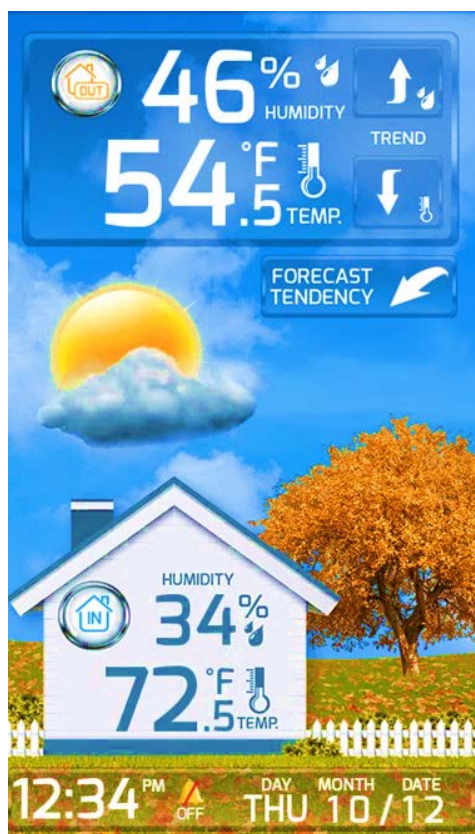
The weather station offers four photo-color display screens for your enjoyment. View what you want to see.

Press the **DISPLAY** button to select:

- Forecast page
- Indoor page
- Outdoor page
- Comfort page



Press the **DISPLAY** button at any time to select a new page.



## FORECAST DISPLAY

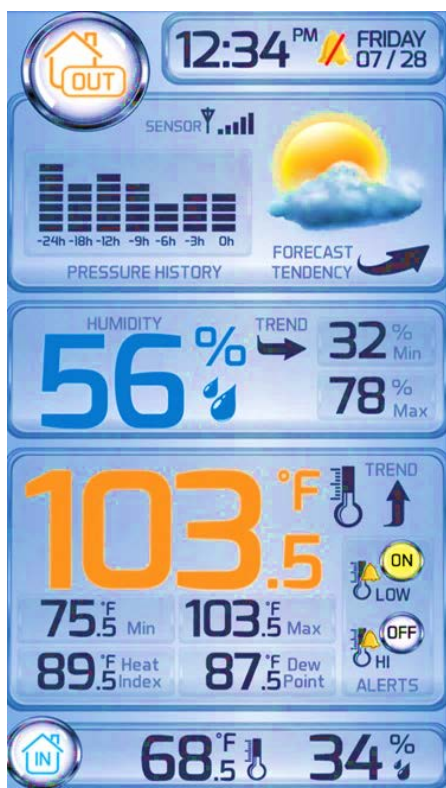
1. Outdoor humidity and temperature with trends
2. Day/Night forecast icons and forecast tendency
3. Photo-color forecast scenes picture background
4. Indoor humidity and temperature
5. Time
6. Alarm Time with Snooze
7. Perpetual Calendar (Day/Month/Date)



## INDOOR DISPLAY

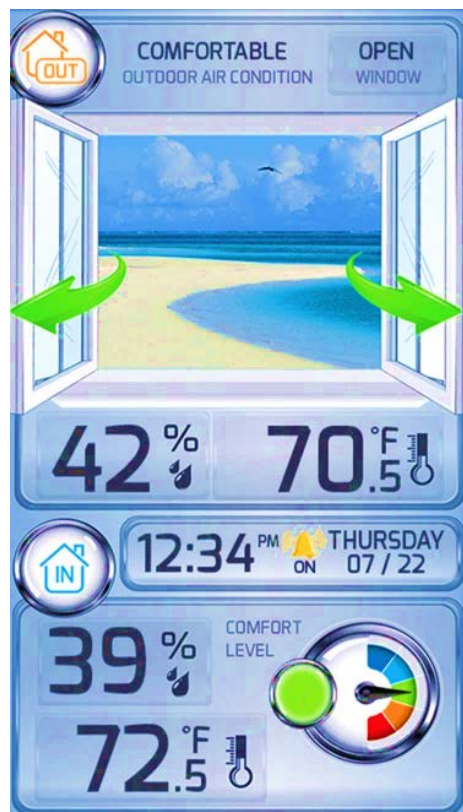
1. Time, alarm time with snooze and calendar
2. Indoor comfort level indicator
3. Indoor humidity and trend with daily MIN/MAX
4. Indoor temperature and trend with daily MIN/MAX
5. Indoor temperature alerts (LOW/HI)
6. Outdoor temperature and humidity





## OUTDOOR DISPLAY

1. Time, alarm time with snooze and calendar
2. Sensor strength indicator
3. Barometric pressure history graph
4. Day/Night forecast icons and forecast tendency
5. Outdoor humidity and trend with daily MIN/MAX
6. Outdoor temp. and trend with daily MIN/MAX
7. Heat Index/Dew Point readings
8. Outdoor Temperature Alerts (LOW/HI)
9. Indoor temperature and humidity



## COMFORT DISPLAY

1. Outdoor air condition
2. Open/Close window suggestion to achieve ideal indoor comfort
3. Outdoor temperature and humidity
4. Time, alarm time with snooze and calendar
5. Indoor temperature and humidity
6. Indoor comfort level indicator

**Note:** Please note that the images displayed in this manual are for reference only. The correct values of temperature, humidity and forecast will display cordially to your conditions.

## Set Time, Date, Temperature Unit

**Note:** Time and date may be set from any display screen.

Hold the **SET** button to enter time set mode.

1. Press the ▼ or ▲ buttons to adjust the values.
2. Press the **SET** button to confirm adjustments and move to the next item.

### Time Set Order:

1. 12/24 hour time format
2. Hour
3. Minutes
4. Year
5. Month
6. Date
7. Fahrenheit/Celsius



Press the **SET button** to exit, or wait 20 seconds without pressing buttons to return to the normal time display.

### 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 in the time display.
2. Press and release the ▼ or ▲ buttons to select 24-hour time.
3. Confirm with the SET button and move to Set Time.

12H

### Set Time

To set the time manually:

1. The **hour** digit will flash.
2. Press and release the ▼ or ▲ buttons 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 ▼ or ▲ buttons to select the minutes.
6. Confirm with the SET button and move to Set Calendar.



### Set Calendar

The date default of the weather station is 1. 1. 2014.

To set the calendar:

1. The **year** will flash.
2. Press and release the ▼ or ▲ buttons to set the year (up to 2099).
3. Press the SET button again to confirm and to enter the month setting.
4. The **month** will flash.
5. Press and release the ▼ or ▲ buttons to set the month.





6. Press the SET button again to confirm and enter the date setting.
7. The **date** will flash.
8. Press and release the ▼ or ▲ buttons to set the date.
9. Confirm all calendar settings with the **SET** button to confirm and move to select Fahrenheit/Celsius.

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

#### Fahrenheit/Celsius

1. °F will flash.
2. Press and release the ▼ or ▲ buttons to select Fahrenheit or Celsius.
3. Confirm with the **SET** button and exit the program menu.



#### Alarm Set

**Note:** Alarm time may be set from any display screen.

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



1. The alarm hour digit will flash in the time display.
2. Press and release the ▼ or ▲ buttons to select the hour.
3. Press and release the **ALARM** button to set the minutes. The minute digits will flash.
4. Press and release the ▼ or ▲ buttons to select the minutes.
5. Confirm with the **ALARM** button and exit.

#### Activate/Deactivate Alarm

- Press the **ALARM** button once to view alarm time.
- Press the **ALARM** button again to activate the alarm. Once activated, the ON icon appears.
- Press the **ALARM** button again to deactivate the alarm. The OFF icon will appear.



#### Snooze

- When alarm sounds, press the **LIGHT** button to silence the alarm for 10 minutes.
- The snooze icon will show.
- In snooze mode, press any button to stop alarm for one day.



**Note:** The alarm is crescendo sound. The alarm sounds for 2 minutes and then will shut off completely.

#### Temperature Alerts

The weather station offers individual, programmable high and low temperature alerts.



1. Press the **DISPLAY** button to select the Indoor or Outdoor page.
2. Hold the **ALERT** button for 3-5 seconds
3. The low temperature alert value will flash.
4. Press the ▼ or ▲ buttons to adjust the low alert values.
5. Press the **ALERT** button to confirm & move to activate the alert.
6. Press the ▼ or ▲ buttons to turn the low alert ON/OFF.
7. Press the **ALERT** button to confirm & move to the high temperature alert. The high alert will flash.
8. Press the ▼ or ▲ buttons to adjust the values.
9. Press the **ALERT** button to confirm & move to activate the alert.
10. Press the ▼ or ▲ buttons to turn the high alert ON/OFF.
11. Press the **ALERT** button to confirm & exit alert settings.



Press the **ALERT** button to exit, or wait 20 seconds without pressing buttons to return to normal time display.

#### Active Temperature Alert/Turn Alert OFF

- Active alert emits a series of beeps once per minute with a flashing yellow alert ON icon.

#### Turn Alert Off:

- Hold the **ALERT** button for 3-5 seconds. The low alert value will flash.
- Press the **ALERT** button until the flashing yellow alert ON icon is selected.
- Press the ▼ or ▲ buttons to turn the alert OFF.



**Note:** Change the value of the alert higher/lower if desired and leave the alert ON.

#### Temperature/Humidity Trend Indicators

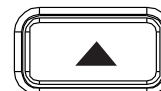
The indoor and outdoor temperature/humidity trend indicators will update every 30 minutes or less. These trends represent temperature changes over the past three hours.

**Example:** At 1:00pm, the arrow indicates the change in temperature since 10:00am. At 1:30pm, the arrow will indicate the temperature change since 10:30am.

<ul style="list-style-type: none"> <li>• Temperature has <b>risen</b> in the past 3 hours.</li> <li>• Humidity has <b>risen</b> in the past 3 hours.</li> </ul>	RISING TREND
<ul style="list-style-type: none"> <li>• Temperature has <b>not changed</b> in the past 3 hours.</li> <li>• Humidity has <b>not changed</b> in the past 3 hours.</li> </ul>	STEADY TREND
<ul style="list-style-type: none"> <li>• Temperature has <b>fallen</b> in the past 3 hours.</li> <li>• Humidity has <b>fallen</b> in the past 3 hours.</li> </ul>	FALLING TREND

#### Search for Outdoor Sensor

- Hold the ▲ button to search for the outdoor sensor.
- The temperature reading will show dashes until reconnected.
- Open the outdoor sensor and press the **TX** button to send a signal.



## MIN/MAX (View, Reset)

These are daily MIN/MAX readings that automatically reset.

- Indoor and Outdoor MIN/MAX temperatures are constantly displayed on the indoor and the outdoor pages.
- The forecast station will show the 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).

## Heat Index/ Dew Point

- Outdoor heat index and dew point temperatures are constantly displayed on the outdoor page.

## Open/Close Window Recommendations

**Note:** Open/Close Window Indicator is a suggestion to achieve ideal indoor comfort

### Open Window:

- Humidity: 32-75%
- Temperature: 62- 78 degrees

When both outdoor temperature and humidity are in this range the window stays open. If either the humidity or the temperatures are out of this range the window goes to the closed position.

### Closed Window:

- Humidity: 1-32% and 76- 100%
- Temperature: -40 to 61 and 79 to 140 degrees

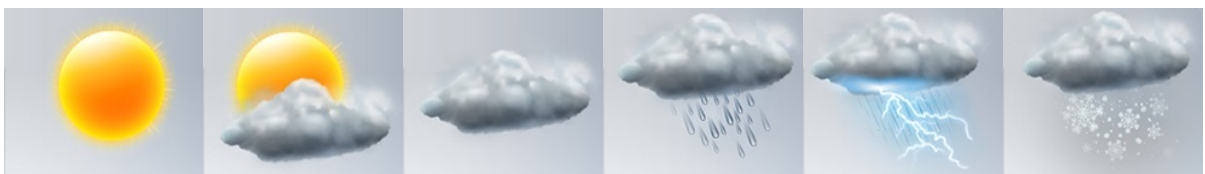
When either the outdoor temperature or humidity are in this range the window stays closed.



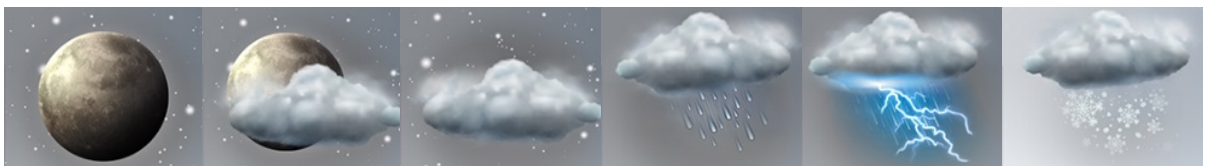
## Color Forecast Icons

Animated forecast icons use changing atmospheric pressure to predict weather conditions for the next 12-hours with 70-75% accuracy.

### DAY



### NIGHT






## INTELLIGENT WEATHER FORECAST ICONS

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

**Note:** It is important that Time and Date are set for the Day/Night changes are as specified.

## Forecast Tendency Indicators (Up, Right, Down Arrows)

Working with the forecast icons, the tendency indicators let you know if the weather is improving, steady or worsening.

 <b>TENDENCY</b> <b>Rising Pressure</b> Weather is Expected to Improve	 <b>TENDENCY</b> <b>Steady Pressure</b> Weather is Expected to Stay the Same	 <b>TENDENCY</b> <b>Falling Pressure</b> Weather is Expected to Worsen
------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------

## 24 Hour Pressure History Graph

- The bar chart indicates the air pressure history trend over the last 24 hours.
- The "0" is equal to the current pressure and each bar represents how past pressure was **compared** to the current pressure.
- Read the graph from left to right. If the bars are rising, it means that the weather is getting better due to the increase of air pressure.
- If the bars go down, it means the air pressure has dropped and the weather is expected to worsen from the present time.



## Seasonal Day/Night changes to Forecast Icons.

- On the Forecast page, the tree foliage will change seasonally.

**Spring/Rainy**



**Summer/Cloudy**



**Autumn/Stormy**



**Winter/Snowy**



- The entire background will change daily between night images and day images.
- The Outdoor page will show the day/night changes with the forecast icon.

**Note:** Day and Night start times, vary by season.



Day & Night Parameters	Day Starts	Night Starts
<b>Spring:</b>		
March 20 <sup>th</sup> – June 20 <sup>th</sup>	6:53am	7:57pm
<b>Summer:</b>		
June 21 <sup>st</sup> – Sept. 20 <sup>th</sup>	6:18am	8:19pm
<b>Autumn:</b>		
Sept. 21 <sup>st</sup> – Dec 20 <sup>th</sup>	6:50am	5:15pm
<b>Winter:</b>		
Dec 21 <sup>st</sup> – Mar 19 <sup>th</sup>	7:18am	5:48pm

**Note:** Average sunrise and sunset times were used because of the different sunrise and sunset times across the United

### Outdoor Sensor Positioning and Use

- Mount the outdoor sensor on a north-facing wall or in any well shaded area. Under an eave or deck rail is preferred.
- The maximum wireless transmission range to the weather station is over 300 feet (91.44 meters) in open air, not including walls or floors.
- Be sure the outdoor sensor is mounted vertically.

### 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 with is not to be used for an extended period of time.
- Remove used batteries promptly.
- Do not expose to extreme temperature, vibration or shock.
- Clean with a soft damp cloth. Do not use solvents or scouring agents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is intended for home use only.
- The specs of this product may change without prior notice.
- Improper use or unauthorized opening of housing voids warranty.
- If the product is not working properly, change the batteries and/or check the AC cord connection.

Specifications	
<b>Indoor</b>	
Temperature Range:	+32°F to +122°F (0°C to 50°C)
Humidity Range:	19%-99% (RH)
<b>Outdoor</b>	
Temperature Range:	-40°F to 140°F (-40°C to 60°C)
Alkaline Batteries:	-20°F to 140°F (-29°C to 60°C)
Lithium Batteries:	-40°F to -20°F (-40°C to -29°C)
<b>NOTE:</b>	Temperatures below - 20°F (-29°C) require Lithium batteries in the outdoor sensor
Humidity Range:	19%-99% (RH)
Distance:	Over 300 ft. (91.44 meters) RF 915MHz (open air)
<b>Power</b>	
Weather Station	
AC Power:	5-volt power adapter (included)
AC Adapter No.:	HNBB050100WU
TX143TH Outdoor sensor :	2-AA, IEC, LR6 batteries (not included)
<b>Battery Life</b>	
TX143TH Outdoor sensor :	Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries
<b>Dimensions</b>	
Weather Station:	5.09"L x 1.37"W x 8.46"H (129.33 x 34.92 x 214.92 mm)
TX143TH Outdoor sensor:	1.57"L x 0.79"W x 5.12"H (40 x 20 x 130mm)

## 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.

### View full warranty details online at:

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

### For warranty work, technical support or other information contact:

La Crosse Technology, Ltd  
2830 South 26<sup>th</sup> St.  
La Crosse, WI 54601



### Contact Support:

1-608-782-1610

### Product Registration:

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



**Online Product Support:**

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

**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 sensor. **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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