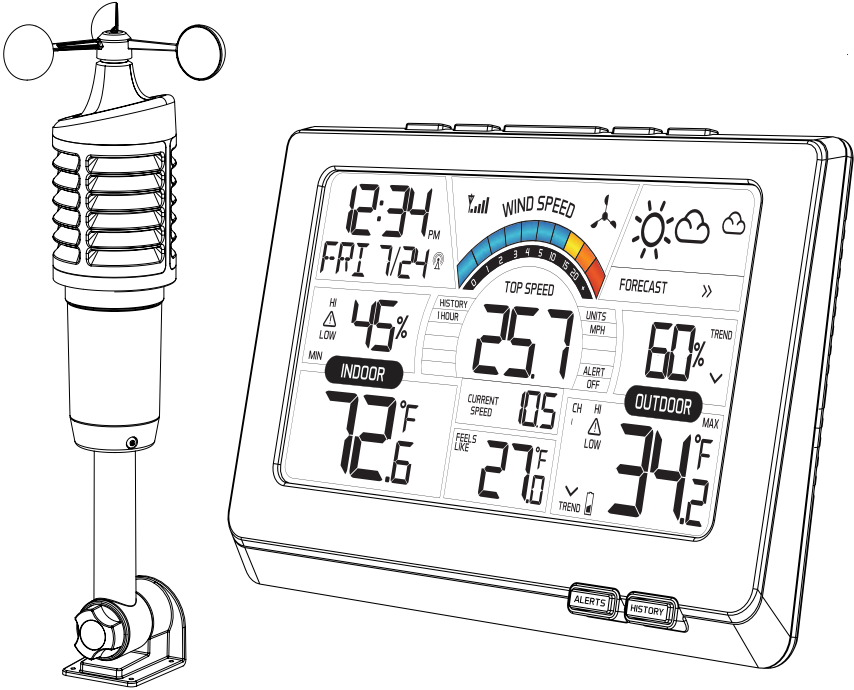


# Wind Speed Weather Station



For online video support:  
<http://bit.ly/LaxTechTalk>

Instructional Manual

Model: 327-1414Wv2 DC:020817

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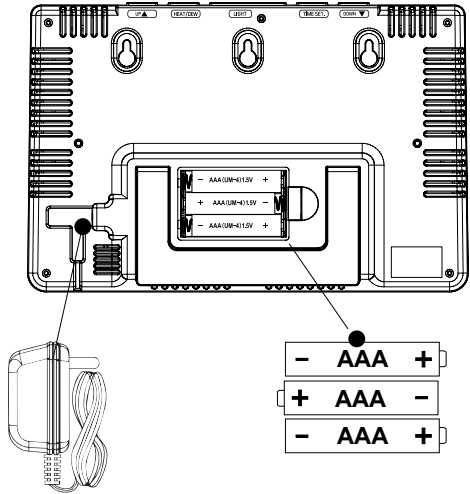
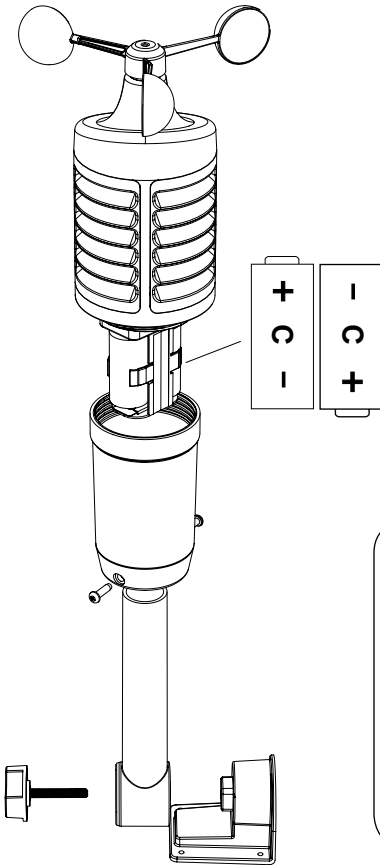
## Atomic Time Signal

- The wind station will automatically search at UTC 7:00, 8:00, 9:00, 10:00, 11:00. If no WWVB reception, the station will search for the WWVB time signal every 2 hours until the WWVB time is received.
- After reception, this station will only search for the atomic signal after midnight.
- To perform a manual search for the atomic time signal, first make sure the Atomic feature is set to ON within the settings menu.
- Then press and release the TIME SET button to manually start or stop a WWVB atomic time signal search.
- The Atomic Time Icon will flash while searching and remain solid on screen when connected.
- For information about WWVB, visit: <http://bit.ly/AtomicTime>

# Setup

## Outdoor Sensor TX141W

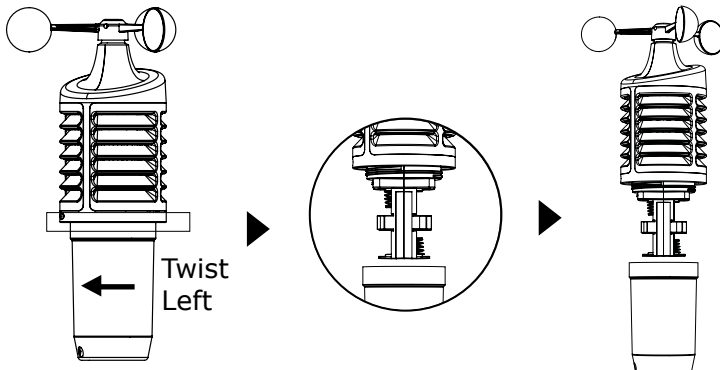
## Station Back View



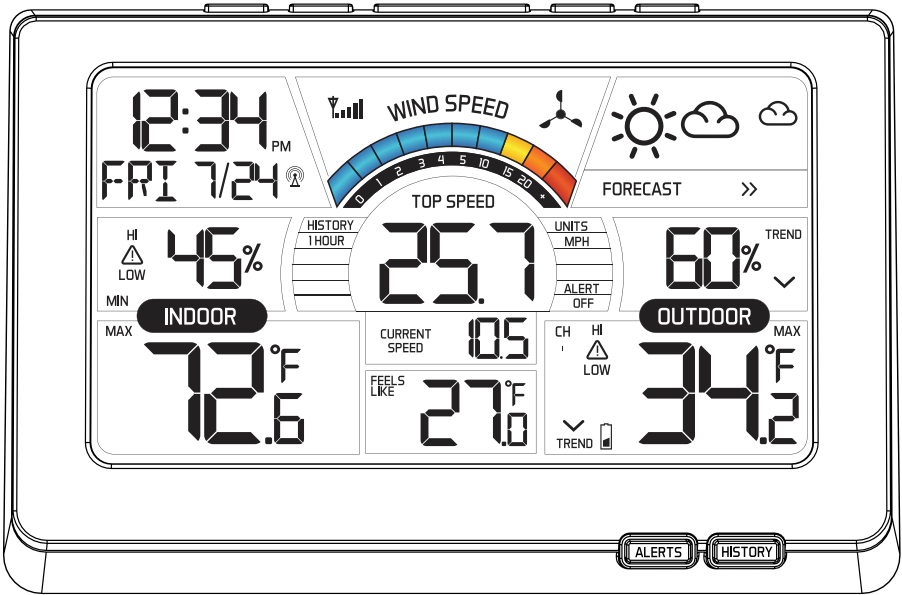
### Power the Sensor and Weather Station:

1. Insert two "C" batteries into the TX141W sensor
2. Insert the power cord into an outlet and then into the weather station.
3. Insert three "AAA" batteries into the weather station (optional).
4. After 15 minutes, position the sensor outside ([Page 11](#)).

Twist battery cover left to remove from sensor.



# LCD Features



PM AM | PM



Sensor Reception



Atomic Time



Wind

MIN  
MAX

MIN | MAX



Forecast

% Relative Humidity



Channel Indicator

°F Fahrenheit | Celsius



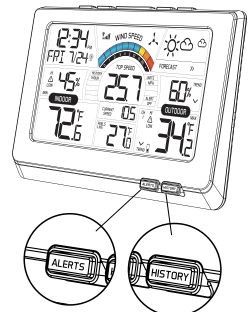
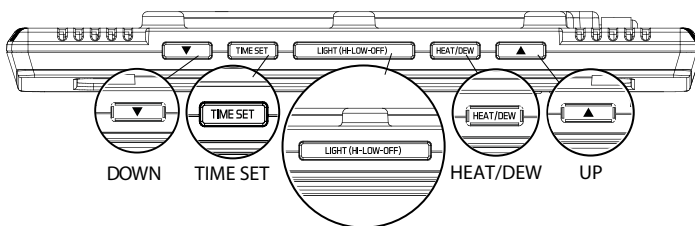
Trend Arrows

HI | LOW Alerts



Low Battery

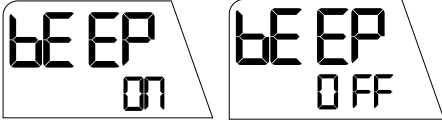
## Buttons



# Settings Menu

- Hold the TIME SET button for 3 seconds to enter settings menu.
- Move through settings with the TIME SET button.
- The ARROW buttons will adjust settings.
- Exit at anytime with the LIGHT button.

## 1. Beep ON or OFF



## 2. WWVB ON or OFF



**Note:** When Atomic OFF is selected, steps 3 & 4 will not show and you will automatically move to step 5.

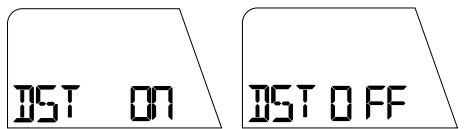
## 3. Select Time Zone



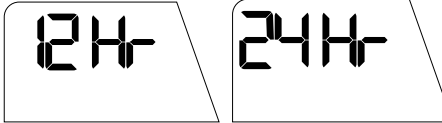
Time Zone	
AST	Atlantic
EST	Eastern
CST	Central
MST	Mountain
PST	Pacific
AKT	Alaska
HAT	Hawaiian



## 4. Select DST ON or OFF



## 5. Choose 12 or 24 hour time



## 6. Set Hours



## 7. Set Minutes



## 8. Set Year



## 9. Set Month



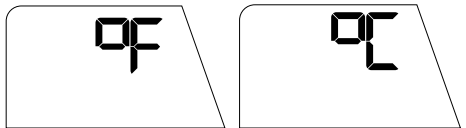
## 10. Set Date



## 11. Select MPH or KMH



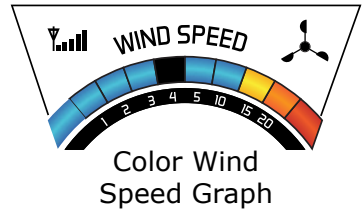
## 12. Select Fahrenheit | Celsius



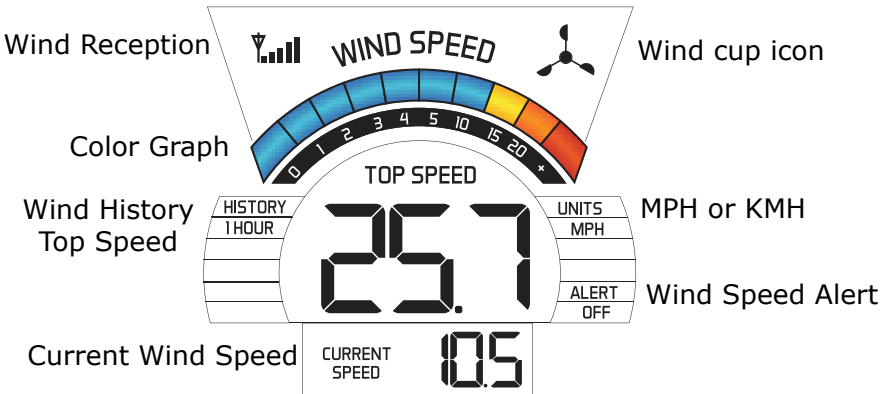
# Color Wind Speed Graph

The wind speed graph with color sections is based on current wind speed. One segment will flash indicating current wind speed.

Color	Speed
Blue	0 - 14
Yellow	15 - 19
Orange	20 - 24
Red	over 25



- The wind cup icon will spin at varying speeds (fast or slow) according to the current wind speed.



## Top Wind Speed

- Highest wind speed recorded in the past 60 minutes.
- Updates when a higher wind speed has occurred.
- Last number will remain if there is no higher wind for 60 minutes.

## Wind History

- Press and release the HISTORY button to view the past top wind speeds with time and date of occurrence.
- The station will return to the 1 hour top speed reading (default) after 10 seconds.
- 24-hour: Past 24 hour period, from last record.
- Week: Past 7-day period, from last record.
- Month: Defined by Calendar Month i.e. January 1 - January 31.
- Year: Defined by Calendar Year i.e. January 1 - December 31.

# Current Wind Speed

The current wind speed which represents a 30 second average of wind speed samples taken. This should correspond to the wind graph.

## Alerts: Wind Speed | Temperature | Humidity

Setting alert value and arming individual alerts are separate functions.

### Set alert value:

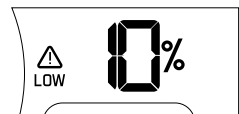
1. Hold the ALERTS button for 3 seconds to enter alert set mode.
2. The high wind speed alert value will blink in set mode.
3. Press the ARROW buttons to adjust the values.
4. Press the ALERTS button to confirm and move to the next alert.

### The alert setting order:

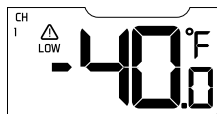
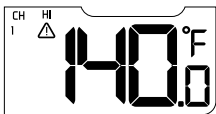
- High Wind Speed (channel 1 only)
- Outdoor Humidity HI
- Outdoor Humidity LOW
- Outdoor Temperature HI
- Outdoor Temperature LOW
- Indoor Humidity HI
- Indoor Humidity LOW
- Indoor Temperature HI
- Indoor Temperature LOW

**Note:** When using multiple temp/humidity sensors, before setting alerts, press the DOWN ARROW button to select channel.

### Wind Speed High Alert Outdoor HI Humidity Outdoor LOW Humidity



### Outdoor HI Temp Outdoor LOW Temp Indoor HI Humidity



### Indoor LOW Humidity Indoor HI Temp Indoor LOW Temp



# Alerts Sounds: Disarm | Arm Alerts

## When Alert Sounds:

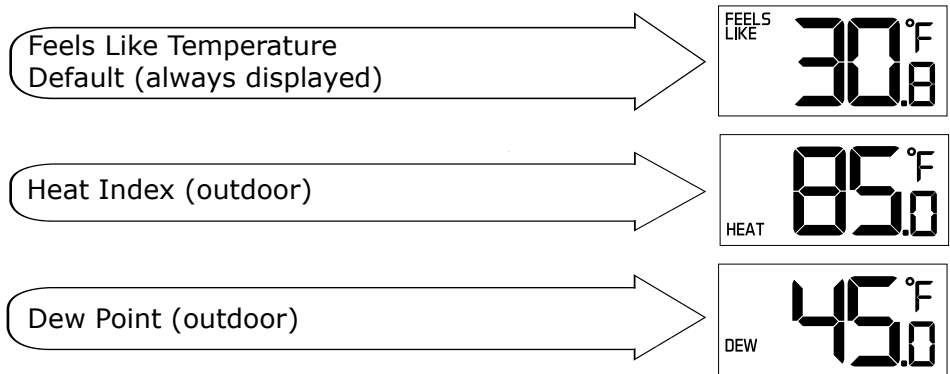
- Alerts will beep 5 times, once per minute.
- Alert icon will flash.

## Disarm | Arm Alerts:

1. Press and release the ALERTS button to select an alert. HI or LO will flash.
2. Press the DOWN ARROW button to disarm the alert.
3. Press the UP ARROW button to arm the alert.
4. The HI or LO alert icon appears when armed.

# Feels Like | Heat Index | Dew Point

Press the HEAT/DEW button repeatedly to toggle between:



**Note:** Feels Like Temperature is the perceived outdoor temperature.

- Temperatures below 50°F, will measure the effect of wind speed on cooling of the human body.
- Temperatures above 70°F, will measure the effect of humidity on the perception of temperature.
- Between 51 °F and 69°F, the feels like temperature will be the same as the outdoor temperature.
- Feels like temperature is calculated on all three channels if additional sensors are used.

# MAX | MIN Temperature

The station automatically resets MAX and MIN values daily at midnight (12:00 AM).

- Press the UP ARROW button once to view MAX temperatures.
- Hold the UP ARROW button for 5 seconds to reset MAX temperatures.
- Press the DOWN ARROW button once to view MIN temperatures.
- Hold the DOWN ARROW button for 5 seconds to reset MIN temperatures.



# Forecast Information

This station learns:

Please allow 7-10 days for barometric calibration. This will ensure an accurate personal forecast for your location. Six animated forecast icons use changing atmospheric pressure to predict weather conditions for the next 12-hours with 70-75% accuracy.

## Sunny



FORECAST >>

## Partly Sunny



FORECAST >>

## Cloudy



FORECAST >>

## Rainy



FORECAST >>

## Stormy



FORECAST >>




## Snowy



FORECAST >>

**Note:** Snowy icon will appear in place of rainy and stormy icons when the outdoor temperature (Channel 1) is below 32°F.

# Forecast Tendency Arrows

Rising Pressure 	Steady Pressure 	Falling Pressure 
Weather is expected to improve	Weather is expected to stay the same	Weather is expected to worsen

# Backlight Adjustments

Use the power cord for constant backlight:

- Press the LIGHT button on the top of the weather station to adjust the backlight (HI-LOW-OFF) when using the power cord.

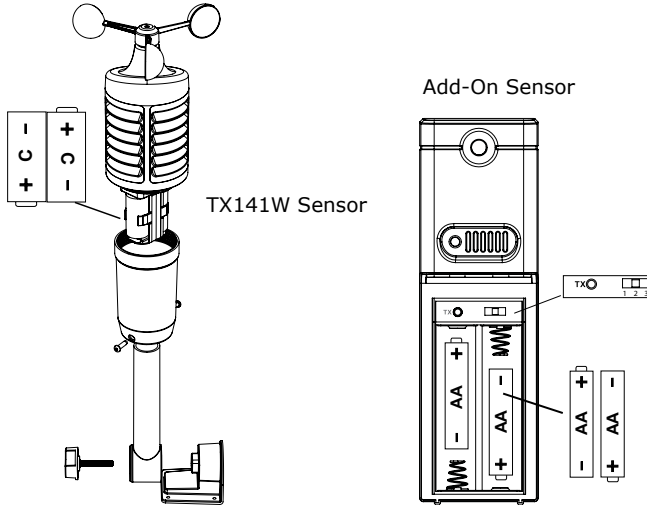
When using battery power only:

- Press the LIGHT button for a 10 second backlight.

# Change Batteries

## TX141W Sensor:

1. Grab the vented portion of the sensor and turn counter clockwise.
2. Remove old batteries and install fresh "C" batteries.
3. Carefully align and turn vented portion clockwise to tighten.
4. Hold the DOWN ARROW button on the weather station for 5 seconds to search for the sensor.



## TX141TH-BCH Add-on Sensor(s):

1. Slide battery cover down and lift off sensor.
2. Remove old batteries and install fresh "AA" batteries.
3. Hold the DOWN ARROW button on the weather station for 5 seconds to search for the sensor.

## Restart

1. Bring in the Wind sensor and any other add-on sensors connected to the weather station. Set them all within 5 feet from the station.
2. Remove batteries from the sensor (s) and batteries and power cord from the weather station
3. Press any button 20 times and wait at least 15 minutes.
4. After the 15 minutes, insert batteries into the wind sensor, then insert the power cord and/or batteries back into the weather station. The outdoor data should show up on screen within a minute or two.
5. Once the outdoor data is showing up, wait another 15 minutes for the sensor and station to establish a strong connection.
6. After the sensor(s) have been connected for at least 15 minutes, feel free to mount them back outside.

# Connect Add-on Sensors to Station

- The wind station will accommodate up to two additional thermo-hygro sensors (TX141TH-BCH, sold separately) on channels 2 and 3.

Purchase at:

[www.lacrossetechnology.com/tx141th-bch-temperature-humidity-sensor](http://www.lacrossetechnology.com/tx141th-bch-temperature-humidity-sensor)

**Note:** The TX141W sensor will use channel 1. No additional TX141W wind speed sensors can be added.

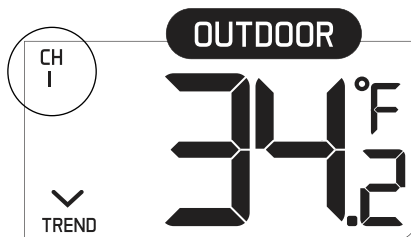
## Connect add-on sensor(s) to the wind station:

1. Remove the battery cover from all add-on sensors (leave off ).
2. Set the first additional sensor to Channel 2 and insert 2 "AA" batteries.
3. Set the second additional sensor to Channel 3 and insert 2 ""AA"" batteries.
4. Hold the DOWN ARROW button on the station for 5 seconds to search for sensors.
5. Press the TX button on each sensor.
6. When connection is established, the temperature and humidity for each of the selected channels will appear.
7. Install the battery covers on each sensor.
8. Keep sensors and the wind station 5-10 feet apart for 15 minutes for a solid connection.
9. After 15 minutes, place the remote sensors in an appropriate shaded locations.
10. Press and release the DOWN ARROW button to view channels 1, 2 or 3 on the wind station.

**Note:** If only one sensor is connected, the other channels will show dashes for temperature and humidity.

## View Channels (when add on sensors in use)

- Press the DOWN ARROW button to toggle between remote sensor channels when multiple sensors are used.
- Channels are indicated with CH 1, CH 2 or CH 3, in the outdoor temperature area.



## Position Add-on Sensors

- Mount the TX141TH-BCH add-on 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 meters) in open air, not including walls or floors.
- Be sure the sensor is mounted vertically

### Option 1:

- Install one mounting screw into a wall leaving some extended.
- Place the transmitter onto the screw.
- Gently pull the transmitter down to lock the screw into place.

### Option 2:

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

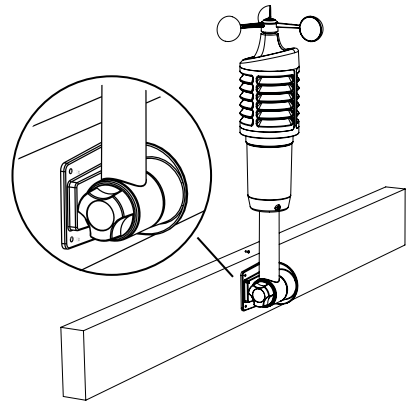
## Position Wind Sensor

- For the most accurate wind speed readings, mount the TX141W sensor as the highest object for 50 feet in all directions.
- Cups should be on the top of the sensor. Mount vertically.
- The maximum wireless transmission range to the wind station is over 300 feet (91 meters) in open air, not including walls or trees.

1. Insert mounting pole into sensor.
2. Tighten screws
3. Insert bottom of pole into mounting bracket
4. Tighten knob to secure
5. Use screws through the bottom of the mounting bracket to attach.
6. The sensor can be mounted from the bottom or side. (the picture is of the sensor mounted from the side)

### Alternatively:

1. Insert your own mounting pole into the sensor.
2. Tighten screws
3. Mounting bracket would not be used.



**Note:** Do not attempt to insert a pole into the hollow back of the mounting bracket.

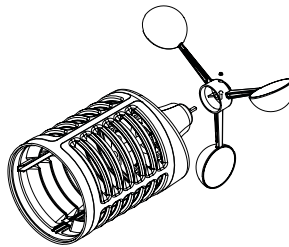
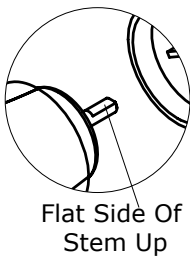
## Position Weather Station

- Pull out the stand and place on a flat surface.
  - Or use the three hanging holes on the back to mount on the wall, near an outlet for constant backlight.
1. Choose a location 6 feet or more away from electronics such as cordless phones, gaming systems, televisions, microwaves, routers, etc.
  2. Place within range of the outdoor sensors (300 ft, 91m open air).
  3. Obstacles such as walls, windows, stucco, concrete, and large metal objects can reduce the range.
  4. For best WWVB reception, orientate the weather station with the front or back of the station facing Ft. Collins, Colorado.

## Replace Wind Cups

1. Loosen the screw
2. Remove cups
3. Install new cups
4. Tighten screw

**Note:** The screw in the wind cups will fit on the flat side of the metal stem on the sensor.



Insert and Attach  
Flat End up

## 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.
- Promptly remove expired batteries.

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# Specifications

Indoor	<ul style="list-style-type: none"><li>• Temperature Range: 32°F to 122°F (0°C to 50°C)</li><li>• Humidity Range: 10% - 99% (RH)</li><li>• Interval: about every 30 seconds</li></ul>
Outdoor	<ul style="list-style-type: none"><li>• Temperature Range: -40°F to 140°F (-40°C to 60°C)</li><li>• Humidity Range: 10% - 99% (RH)</li><li>• Wind Speed Range: 0 - 99 mph (0-159 kMh)</li><li>• Distance: Over 300ft. (91 meters) RF 433MHz (open air)</li></ul>
Power	<ul style="list-style-type: none"><li>• Wind Station Primary AC Power: 5-volt AC power cord (included)</li><li>• AC6 power cord number: GPU280500150WAOO 5VAC 150mA</li><li>• Optional/Battery Backup: 3 "AAA", IEC, LR3 batteries (not included)</li><li>• Wind/TH Sensor: 2 "C", IEC, LR14 batteries (not included)</li></ul>
Battery Life	<ul style="list-style-type: none"><li>• Wind Station Battery Backup: Battery life is over 12 months when using the power cord for primary power</li><li>• Wind/TH Sensor: Battery life is over 24 months when using reputable battery brands</li></ul>
Dimensions	<ul style="list-style-type: none"><li>• Wind Station: 5.48" H x 8.34" L x 1.03" W (139.19 x 211.84 x 26.12 mm)</li><li>• TX141W Sensor: 18.57" H x 7.10" W x 7.10" D (471.68 x 180.34 x 180.34 mm)</li></ul>

## Warranty and Support

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 or visit our online help:

Phone: 1-608-782-1610

Online: [www.lacrosstechnology.com/support/](http://www.lacrosstechnology.com/support/)

View full warranty details online at:

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

## 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 changes or modifications to this equipment. Such changes or modifications could void the user authority to operate the equipment.

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## Canada Statement

This device complies with CNR Industry Canada license -exempt devices.

Operation is subject to the following two conditions:

- (1) This device may not cause interference; and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.