

# LA CROSSE® TECHNOLOGY



## WIRELESS WEATHER STATION

WITH TEMPERATURE, WIND, & HUMIDITY

**SET UP GUIDE**

MODEL NUMBER S81120v2

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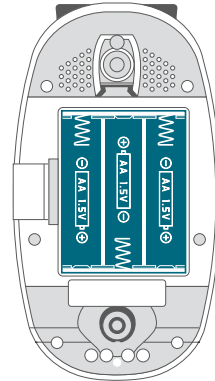
  

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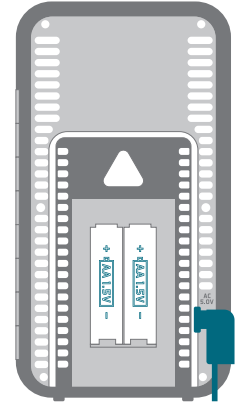
## BASICS

# Initial Setup

## Power Up



Bottom of Breeze Sensor  
Model No. TX145WSDTHv3



Back of Station  
Model No. S81120v2

1. Insert 3 AA batteries into your Breeze Pro Sensor.
2. Insert the 5V Power Adapter into an outlet, and then plug it into the Power Jack on the back of the station. Next, insert 2 AA batteries for backup (optional).

Note: It may take up to 10 minutes for your sensor data to appear on your station's screen.

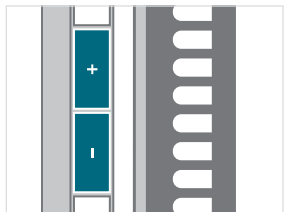
## Station Settings

When the station is first powered on, a greeting will appear on the LCD display and then your station will move into the Settings Menu.

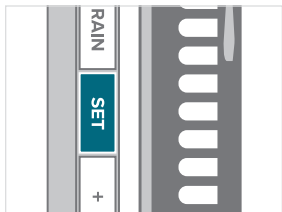
To enter the Settings Menu after the initial setup, hold the **SET** button on the side of your station.

### Settings Menu Order

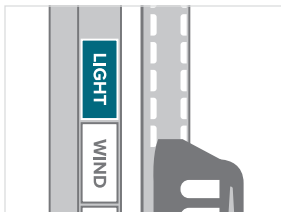
Greeting • Language • 12/24 Hour Time • Hour • Minutes • Year • Month Date • Month/Date or Date/Month Order • Fahrenheit/Celsius • Wind Speed Units (MPH or KMH) • Wind Direction (Letters or Degrees) • Rain Units (IN or MM)\*



Use the **+/-** buttons on the side of the station to adjust the values.



Press the **SET** button to confirm your selection and move to next step.



You may exit the Settings Menu at any time by pressing the **LIGHT** button.

Notes: **Weekday will set automatically after year, month, & date settings are adjusted.**

\*Rainfall data is only available when a compatible rain sensor is connected. See page **13** for more information.

## Buttons

### 1. LIGHT

Press to adjust backlight. Hold to enter Auto-Dim Settings.

### 3. RAIN\*

When viewing Rain, Press **RAIN** to view rain history month, year etc. Hold **RAIN** to search for Rain sensor. Hold **RAIN** and **SET** together to return to Time display.

### 5. PLUS (+)

Press to toggle indoor/outdoor temperature & humidity readings. Use to adjust values in Settings Menu.

### 7. TEMP

Press to view HI/LO temperature and humidity records. Hold to search for add-on TH sensor.\*\*

### 2. WIND

Press to view Wind Speed History. While viewing, hold the **MINUS** button to reset the history reading.

### 4. SET

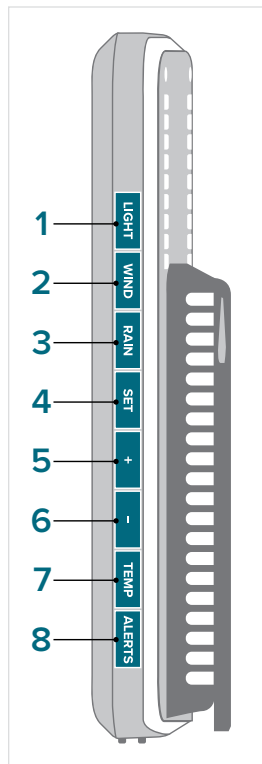
Hold to enter Settings Menu. Press to toggle full weekday or month/date/year.

### 6. MINUS (-)

Hold to reset history readings. Use to adjust values in Settings Menu. Hold to delete add-on TH sensor.\*\*

### 8. ALERTS

Hold to enter the Alerts Settings. While viewing, use the **+/-** buttons to activate an alert and the **ALERTS** button to confirm and move to the next option.



\*Rainfall data is only available when a compatible rain sensor is connected. See page **13** for more information.

\*\*Add-On Temperature & Humidity data is only available when a separate TH sensor is added. See page **11** for more information.

## LCD Display

### Adjusting the LCD Display Brightness

Press the **LIGHT** button to adjust the backlight intensity. There are 4 brightness levels, plus an off option.

### Auto-Dim Settings

Program your display to automatically dim during preselected times.

1. Hold the **LIGHT** button to enter the Auto-Dim Settings Menu.
2. Press the **+/-** buttons to turn the Auto-Dim feature on or off. Press **LIGHT** to confirm.
3. Press the **+/-** buttons to adjust the starting hour. Press **LIGHT** to confirm.
4. Press the **+/-** buttons to adjust the stopping hour. Press **LIGHT** to confirm and exit.

### Custom Calendar Display


Press the **SET** button to select either the Full Weekday or Month/Date/Year.



Full Day of the Week Display



Month/Date/Year Display

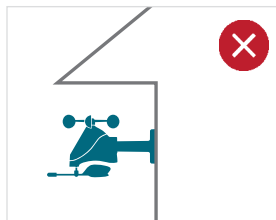
The  icon will appear on the LCD when the Auto-Dim feature is activated.

## Positioning the Breeze Sensor

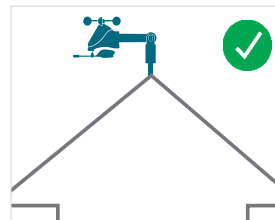


### For Accurate Measurements

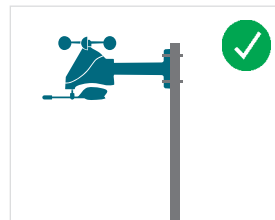
- Mount the Breeze Sensor horizontally and ensure it's level.
- The sensor should be mounted with the wind cups on top.
- Your Breeze Sensor should be the tallest object in the area to avoid reduced wind speed values.
- To optimize the use of the Breeze Sensor's Solar Panel, battery life, and wind direction readings, ensure that the sensor is mounted with the solar panel facing directly to the South.
- Make sure all of the screws on the mounting bracket, wind cups, wind vane, and battery compartment are securely fastened.
- Ensure the knob on the mounting bracket is secure and stays in your desired configuration.



Avoid areas that may obstruct wind gusts such as eaves, rooflines, or trees.



The Breeze Sensor should be the tallest object in the area. An unobstructed rooftop is an ideal location.



The sensor may be mounted on a pole away from any objects that may cause inaccurate readings.

For additional sensor information, visit: [www.lacrossetechnology.com/support](http://www.lacrossetechnology.com/support)

*The illustrations above are not to scale and are for informative purposes only.*

## Viewing Your Wind Data



### 1. COMPASS ROSE

Displays cardinal direction with animated arrows (16 directions total)

### 2. TOP WIND SPEED

The top wind speed in the past 60 minutes

### 3. WIND DIRECTION

Choose between cardinal points (letters) or degrees in the Settings Menu

### 4. LOW BATTERY ICON

Indicates if the sensor battery needs to be replaced

### 5. WIND SPEED ALERT

Appears if a wind speed alert is set & active

### 6. "NOW" WIND SPEED

The top wind speed in the past 31 seconds

### 7. WIND SPEED TREND INDICATOR

Shows wind speed trends over the past 60 minutes

### 8. RECEPTION INDICATOR

Indicates if the station is receiving data from the sensor

## Wind Speed Records & Alerts

### Viewing Wind Speed Records

Press the **WIND** button to toggle through wind speed records with time and date stamps.

The wind speed records include: past 24 hours, 7 days, 1 month, & 1 year.

### Setting the Wind Speed Alert

1. Hold the **ALERTS** button to enter the Alert Settings Menu.
2. Use the **+/-** buttons turn alerts on/off and to adjust specific alert values. Press the **ALERTS** button to confirm your selection.
3. Your wind speed alert is active when the **!** icon is on.

### Activate/Deactivate Wind Speed Alert



The **!** icon will appear in the compass rose section of the LCD.

### Important Notes:

- The alert is defaulted to be off.
- When the armed alert value is reached, the station will beep and the icon will flash. Press any button to stop the alert sound.
- The Alert Icon will remain flashing until the current conditions are no longer within the set alert range.


SEPTEMBER



Monthly Wind Speed Record Example

## Viewing Your Temperature & Humidity Data

### Indoor/Outdoor Readings

If you wish to see both indoor/outdoor data, press the **PLUS (+)** button until the Cycle Mode Icon  appears. Your display will now automatically alternate between indoor and outdoor data.

#### 1. OUTDOOR TEMPERATURE

Current Outdoor Temperature

#### 2. TH SENSOR RECEPTION ICON\*

Appears if readings are provided by an add-on TH sensor

#### 3. Cycle Mode Icon

Indicates if the indoor/outdoor data is set to cycle

#### 4. HI/LO OUTDOOR TEMPERATURE ALERTS

Appears if a temperature alert is set and active

#### 5. OUTDOOR HUMIDITY

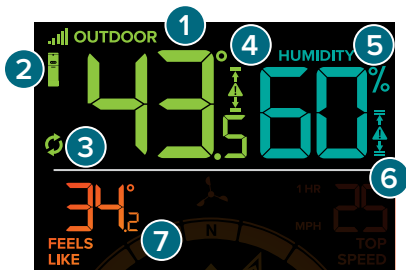
Current Outdoor Humidity

#### 6. HI/LO OUTDOOR HUMIDITY ALERTS

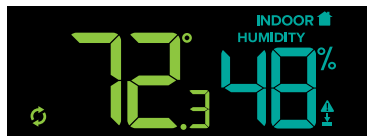
Appears if a humidity alert is set and active

#### 7. "FEELS LIKE" TEMPERATURE

Based on current outdoor temperature and wind speed (heat index & wind chill)



Outdoor Temperature & Humidity Display



Indoor Temperature & Humidity Display

#### "Feels Like" Temperature

This reading indicates either Wind Chill or Heat index values when conditions have been met.

- **Wind Chill:** When temperature is below 50°F and there is 5+ MPH sustained wind speed.
- **Heat Index:** When temperature is above 80°F.
- **Current Temperature:** When the temperature is between 41°F and 79°F, the reading will remain the same as the outdoor value regardless of humidity or wind speed.

## Temperature & Humidity Records and Alerts

### Viewing Records

Press the **TEMP** button to toggle through indoor/outdoor temperature & humidity records with time and date stamps.



### Records Viewing Order

- Outdoor High Temperature
- Outdoor Low Temperature
- Outdoor High Humidity
- Outdoor Low Humidity
- Indoor High Temperature
- Indoor Low Temperature
- Indoor High Humidity
- Indoor Low Humidity
- "Feels Like" High Temperature
- "Feels Like" Low Temperature
- Dew Point

### Resetting Individual Temperature and Records

1. Press the **TEMP** button to view the individual temperature & humidity values you'd like to reset.
2. Next, hold the **MINUS (-)** button.
3. This reading is now reset to your current temperature or humidity value.

### Setting the Temp. & Humidity Alerts

1. Hold the **ALERTS** button for to enter the Alert Settings Menu.
2. Use the **+/-** buttons to turn alerts on/off and to adjust specific alert values. Press the **ALERTS** button to confirm your selection.
3. Your alert is active when the  icon (HI alert) and/or  icon (LO alert) is on.



The alert icons will appear on the temperature & humidity section of the LCD when active.

### Important Notes:

- The alert is defaulted to be off.
- When the armed alert value is reached, the station will beep and the icon will flash. Press any button to stop the alert sound.
- The Alert Icon will remain flashing until the current conditions are no longer within the set alert range.

\*An add-on Thermo-Hygro (TH) Sensor must be connected to view readings separate from you Breeze Sensor.

## Add-On Temperature & Humidity Sensor




If you feel the temperature & humidity is not reading as desired from your Breeze Sensor, you can add a separate Thermo-Hygro (TH) Sensor to your system.



Purchase Your Add-On Sensor at (or scan QR Code):  
[www.lacrossetechnology.com/sensor-finder](http://www.lacrossetechnology.com/sensor-finder)

Search for compatible sensors using the station's model number (S81120v2).

### Add-On Sensor TH Set Up




1. Insert 2 "AA" Batteries into the sensor battery compartment.
2. Press the **MINUS (-)** button on the station. The outdoor temperature/humidity readings will flash.
3. Hold the **MINUS (-)** button to delete the temperature and humidity readings provided from the Breeze Sensor. The station will begin to search for the new TH Sensor.
4. Press the **TX** button inside the sensor battery compartment to transmit a signal. Once connected, the TH Sensor Icon  will appear on the LCD.

Note:

Your station will only show temperature/humidity readings from one sensor (either the Breeze Sensor or a separate TH Sensor). If readings are lost from one of the sensors, your station may pick up the readings from the other sensor on its own.


## Add-On Temperature & Humidity Sensor

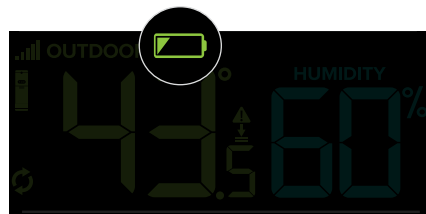
### Lost Connection

- If the sensor loses connection for any reason, the station will show NO after 30 minutes of disconnection.
- The Sensor Reception Icon  will disappear from the LCD and the station will search for up to 3 minutes every hour to try to reestablish the connection.
- Dashes will show while searching for the sensor and the  icon will flash for up to 3 minutes or until the sensor is connected.
- If no signal is received, the  icon will disappear. NO will again show in the sensor area.



### Low Battery

The  icon will appear when the sensor batteries need to be replaced.



## EXTRA SENSORS

# Add-On Rain Sensor



This station is also compatible with an add-on rain sensor.

**Purchase Your Add-On Sensor at** (or scan QR Code):  
[www.lacrossetechnology.com/sensor-finder](http://www.lacrossetechnology.com/sensor-finder)



Search for a compatible rain sensor using the station's model number (S81120v2).

## Add-On Rain Sensor Set Up

1. Insert 2 “AA” Batteries into the sensor battery compartment.
2. Hold the **RAIN** button on the station. NO will appear on the LCD. Hold the **RAIN** button again to search for the rain sensor.
3. Allow up to 5 minutes for station to receive the signal.

**Viewing Your Rain Data:** Your rain data will appear in the time section of the LCD.



Hold the **RAIN** button to view rain data.



To return to the time display, hold the **RAIN** and **SET** buttons together.

## EXTRA SENSORS

# Add-On Rain Sensor

**Rainfall Records:** When viewing your rain data, press the **RAIN** button to view different rainfall records.



**1 HOUR:**  
Represents the past hour of rainfall data



**24 HOURS:**  
The accumulated total from the last 24 hours. This value updates every hour. Not a midnight to midnight total.



**7 DAYS:**  
Running total from the last 7 consecutive 24 hour rainfall readings. This updates at midnight each day.



**1 MONTH:**  
Accumulated total defined by the calendar month. Press the **PLUS (+)** button to view the past 11 individual monthly totals.



**1 YEAR:**  
Current month plus the past 11 monthly totals.



**TOTAL:**  
Total rainfall since rain sensor was setup, or since history was previously reset.

## Resetting Individual Rainfall Records

1. Press the **RAIN** button to view the individual rain records you'd like to reset.
2. Next, hold the **MINUS (-)** button until dashes appear on the LCD.



## Specifications

### STATION SPECIFICATIONS (S81120v2)

- **Indoor Temp. Range:** 32°F to 99°F (0°C to 37°C)
- **Indoor Humidity Range:** 10 to 99%RH
- **Power Requirements:**
  - **Primary Power:** 5.0V AC Adapter (included)
  - **Battery Backup:** 2 "AA" Batteries (sold separately)  
The plug on the power adapter is intended to serve as the disconnect device, the socket-outlet shall be installed near the equipment and shall be easily accessible.
- **Station Dimensions:** 3.77" L x 1.14" W x 7.01" H (9.6cm L x 2.89cm W x 17.82cm H)
- **LCD Brightness:** 4 Intensity Levels + OFF (Programmable Auto-Dim Backlight Option)
- **Language Options:** English, Spanish, French, and German (Translation Available for Menus & Calendar)

### SENSOR SPECIFICATIONS (TX145WSDTHv3)

- **Wind Speed Range:** 0 to 111 mph (0 to 178 km/h)
- **Degrees of Direction:** 360° with 16 Cardinal Directions
- **Outdoor Temp. Range:** -40°F to 140°F (-40°C to 60°C)\*
- **Outdoor Humidity Range:** 10 to 99%RH
- **Transmission Range:** 330 Feet (100 Meters)
- **Power Requirements:** 3 AA batteries
- **Update Interval:** Every 31 Seconds\*
- **Sensor Dimensions:**
  - **With Bracket:** 6.21" L x 12.28" W x 9.87" H (15.77cm L x 31.19cm W x 25.07cm H)
  - **Without Bracket:** 6.21" L x 8.25" W x 6.67" H (15.77cm L x 20.96cm W x 16.94cm H)

\***Please Note:** The Breeze Sensor will operate accurately at temperatures down to -40°F. The solar panel needs to be exposed to maximum sunlight and clear of snow to maintain the internal super capacitor charge for severe cold weather operation. The transmission interval may be automatically reduced during low sunlight and extreme cold to extend operation time.

### CARE & MAINTENANCE

- Do not mix old and new batteries.
- Do not mix Alkaline, Lithium, standard, or rechargeable batteries.
- Always purchase the correct size and grade of battery most suitable for intended use.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries have with correct polarity (+ / -).
- Remove batteries from equipment that will not to be used for an extended period.

## Warranty

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

For full warranty details, you can visit: [www.lacrossetechnology.com/support](http://www.lacrossetechnology.com/support)

La Crosse Technology, Ltd • 2830 S. 26<sup>th</sup> Street • La Crosse, WI 54601

## Recycling & Disposal

Please consider the environment when deciding to dispose of this product. Although household electronics are generally safe to use on a daily basis, incorrect disposal can cause negative and potentially irreversible impacts on our environment.

Check with local donation centers to see if your product can be donated for future use. If disposal is the only option, federal agencies, local governments, and certified retailers may have electronic recycling programs in place. Programs may vary based on location.



Please Recycle

## 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.

**All rights reserved.** This manual may not be reproduced in any form, even in part, or duplicated or processed using electronic, mechanical or chemical process without the written permission of the publisher.

This booklet may contain errors or misprints. The information it contains is regularly checked and corrections are included in subsequent editions. We disclaim any responsibility for any technical error or printing error, or their consequences. All trademarks and patents are recognized.

## 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 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.

### CAUTION!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## 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.

## California Residents

### WARNING:

This product can expose you to chemicals including styrene, which is known in the State of California to cause cancer.

For more information, go to: [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

## Having Trouble? We're here to help.

For detailed product videos, manuals, and more, visit our support website:

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

Make sure you have your product's model number handy (**S81120v2**)

**If you need additional support, get in touch with our friendly customer support team:**

Online: [bit.ly/contact\\_techsupport](https://bit.ly/contact_techsupport)

Phone Number: **1-855-605-6888**

Representatives are available Monday-Friday, 8:00am to 6:00pm CST

## Factory Reset



If you're still experiencing issues, press and hold the **LIGHT** and **ALERTS** buttons down together until the display beeps.

**Note:** All alerts and history records will be reset as well.

## Stay in Touch

Ask questions, watch set up videos, and provide feedback on our social media outlets.



Follow La Crosse Technology on Youtube, Facebook, Twitter, and Instagram.



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