FRONT

LA CROSSE® TECHNOLOGY

Breeze sensor

SET UP GUIDE

MODEL NUMBER: **TX145WSDTHv3**

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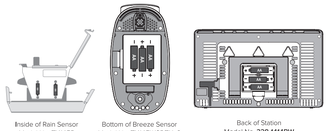
BASICS

Initial Setup

Power Up



Inside of Rain Sensor Model No. **TX145R**

Bottom of Breeze Sensor Model No. **TX145WSDTHv3**

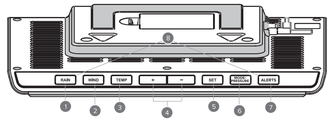
Back of Station Model No. **328-1414BW**

1. Remove the Rain Sensor funnel and insert 2 "AA" batteries into the Battery Compartment.
2. Install 3 "AA" batteries into the Battery Compartment of your Breeze Sensor.
3. Insert 3 "AA" batteries into the Battery Compartment of your Weather Station

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

BASICS

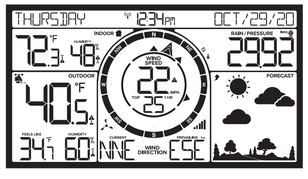
Buttons



1. **RAIN** Press to view Rain History. While viewing, hold the **MINUS** button to delete the history reading. Hold to search for Rain Sensor.
2. **WIND** Press to view Wind Speed History. While viewing, hold the **MINUS** button to delete the history reading. Hold to search for Breeze Sensor.
3. **TEMP.** Press to view Temperature and Humidity History. While viewing, hold **MINUS** button to delete the history reading. Hold to search for TH sensor.
4. **PLUS/MINUS** (+/-) Use to adjust values in the Settings Menu.
5. **SET** Hold to enter Settings Menu. Press to save settings and move to the next menu item.
6. **MODE/PRESSURE** Press to toggle between Pressure, Rain, and autoscroll. Hold to set Pressure Value and Units.
7. **ALERTS** Hold to enter Alert Settings.
8. **RAIN & ALERTS** Hold together to Factory Reset your station. All history will be lost.

BASICS

LCD Display Icons



Atomic Time · Low Battery · Pressure
Breeze Sensor Temp/Humidity · Add-on Sensor Temp/Humidity · Trend Arrows
Alerts · Wind Direction · Rain
Sensor Reception · Prevailing Direction · Autoscroll

BASICS

Station Settings

1. When the station is first powered on, it will begin searching for your outdoor sensor, which should connect shortly.
2. Hold the **SET** button to enter the Settings Menu.

Settings Menu Order
- Greeting
- Language
- Beep ON/OFF
- Atomic ON/OFF
- DST: Automatic/Always ON/Always OFF
- Time Zone
- 12/24 Hour Time
- Hour
- Minutes
- Year
- Month
- Date
- Month/Date or Date/Month
- Fahrenheit/Celsius
- Wind Speed Units (MPH or KMH)
- Wind Direction (Letters or Degrees)
- Rainfall Inches or Millimeters

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

+ – SET ALERTS

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

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

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

BASICS

Atomic Time Signal

- The station will begin searching for the Atomic Time Signal when first powered on.
- If the reception is not picked up right away, it will search every 2 hours until the WWVB signal is received.
- Press the **SET** button to start or stop a manual WWVB signal search.
- The WWVB tower Icon will flash when searching, and be solid when the signal is received.
- For information about WWVB Atomic Time visit: bit.ly/AtomicTime

Daylight Saving Time Options

DST Automatic: Changes Spring and Fall
DST Always ON: Does not change to standard time in Fall
DST Always OFF: Does not change to DST in the Spring.

Time Zone Selection

Selectable Time Zones:
ATLANTIC, EASTERN, CENTRAL, MOUNTAIN, PACIFIC, ALASKA, & HAWAII

PRESSURE

Pressure Settings

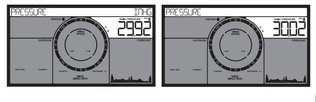
- Your Relative Pressure reading will come from your station's internal barometer.
- Please allow up to 10 days for automatic calibration, or program your local pressure value with the **MODE/PRESSURE** button.
- The arrows located to the left of the values represents Pressure Tendency (rising/falling).

- Hold the **MODE/PRESSURE** button to enter the Pressure Settings Menu to set your Units of Measure (INHG or HPA) and Pressure Value.

+ – MODE/PRESSURE

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

Press the **MODE/PRESSURE** button to confirm selection and move to next step or exit.

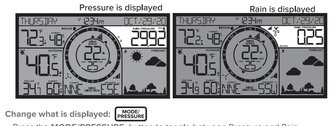


PRESSURE & RAIN

View Pressure & Rain Readings

- Pressure and Rainfall readings share the same display area on station.

Pressure is displayed · Rain is displayed



Change what is displayed: MODE/PRESSURE
- Press the **MODE/PRESSURE** button to toggle between Pressure and Rain readings.
- The Pressure or Rain icon will show to indicate which reading you are viewing.
- When the Autoscroll Icon is displayed, the station will toggle between current Pressure and Rain readings.

Pressure is displayed. · Rain is displayed.
Autoscroll between Pressure and Rain readings. · Pressure Trend Arrows Indicate rising or falling pressure.
Sensor Reception

RAIN

View Rain Records

1. Press the **RAIN** button to view Rainfal Records. RAIN +
2. When viewing month, press the + (PLUS) button to toggle through the past 11 months' rainfall.

1 HOUR: Last one-hour rainfall (12 consecutive 5 minutes rainfall accumulated total). Example: current time is 6:49, 1HR rain is accumulated total between 5:50 and 6:49.

24 HOURS: A running total for the past 24 hours of accumulated rain. This will update at the top of each hour.

7 DAYS: Rainfall from the last 7 consecutive 24HR readings. Updates each day at midnight.

MONTH: Current Month Total (January 1-January 31). This will reset to zero and the start of each new calendar month.

YEAR: Current year (January 1-December 31). This will reset to zero at the start of each new calendar year.

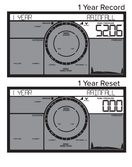
TOTAL: Total rainfall since powered on or reset.

RAIN

Reset Rain Records

1. Press the **RAIN** button to view indiviual Rainfall Records.
2. Hold the - (MINUS) button to reset the rainfall record you are viewing to zero.

RAIN –



Positioning the Rain Sensor

For Accurate Measurements
- Mount the Rain Sensor in an open area at least 3 feet above the ground for accurate rainfall readings.
- Ensure the sensor is level and mounted horizontally.
- Make sure the base of your Rain Sensor is not in a depression. The Rain Sensor has drainage holes in the bottom to allow it to self-empty.
- View sensor mounting video at: bit.ly/Rain_SensorMounting

Search for Rain Sensor RAIN

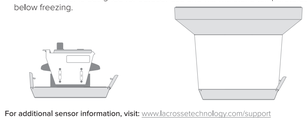
- Hold the **RAIN** button to search for the Rain Sensor.
- The Reception Indicator will animate while searching and be solid once connected.

RAIN

Cleaning and Storage

Cleaning Your Rain Sensor
- Leaves, grass and other debris may need to be removed periodically from the funnel of your Rain Sensor.
- Insects or dirt may also get inside your Rain Sensor and restrict the movement of the rocker.
- Open the locking tabs on the side of the Rain Sensor to remove the funnel. This allows you to clean the funnel and the inside of the Rain Sensor.

Winter Storage Options
- Remove batteries and store in a safe place.
- Remove batteries and cover in place.
- Leave outside, uncovered. While the Rain Sensor **cannot** accurately record snowfall, when the snow melts the water will be counted as rain.
- The Rain Sensor is self-emptying, so water will not freeze inside.
- This Rain Sensor is designed for outdoor use and will withstand temperatures bellow freezing.



For additional sensor information, visit: www.lacrossetechnology.com/support

WIND

Viewing Wind Readings

1. **COMPASS ROSE** Displays cardinal direction with animated arrows (16 directions total).
2. **CURRENT WIND SPEED** The top wind speed in the past 31 seconds.
3. **LOW BATTERY ICON** Appears when the Breeze Sensor batteries need to be replaced.
4. **WIND SPEED ALERT** Appears if a wind speed alert is set & active.
5. **TOP WIND SPEED** The top wind speed in the past 60 minutes.
6. **RECEPTION INDICATOR** Indicates if the station is receiving data from the sensor.
7. **WIND DIRECTION** Choose between cardinal points (letters) or degrees in the Settings Menu.
8. **PREVAILING DIRECTION** Prevailing Wind Direction over the past hour.

WIND

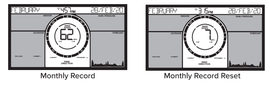
Wind Speed Records

Viewing Wind Speed Records

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

WIND

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



Reset Wind Speed Records

1. Press the **WIND** button to view wind speed records. WIND –
2. Hold the **MINUS (-)** button to reset individual records to current readings.

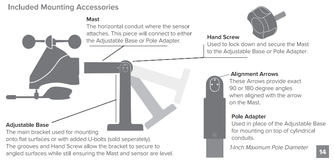
BACK

WIND

Positioning the Breeze Sensor

For Accurate Measurements
- Ensure the Breeze Sensor is is mounted level with the Solar Panel facing directly to the South. This will help optimize battery life and transmit correct wind direction.
- Ideally, the Breeze Sensor should be mounted on the tallest object in your area. Avoid positioning the sensor parallel or below eaves, rooflines, trees, or other objects that may obstruct wind readings.
- Make sure all the screws on the Mounting Bracket, Wind Cups, Wind Vane, and Battery Compartment are securely fastened.
- The Breeze Sensor should be mounted with the Wind Cups on the top.

Included Mounting Accessories



WIND

Basic Installation Options

Fence posts, poles, decks, and even mailboxes are all common mounting options due to their convenience. Many users prefer these types of locations as the data they provide is accurate from their ground level perspective. However, because wind in these spots is often affected by obstructions, the readings may differ compared to local reporting stations.

Basic Assembly

1A. Mount the Adjustable Base onto a flat surface using the four provided screws.

1B. Secure the Pole Adapter to a cylindrical conduit using the two provided screws.

2. Insert the Mast into the Breeze Sensor and tighten the provided screws on the sides.

3. Use the Hand Screw to attach the Mast to either the Adjustable Base or Pole Adapter. Ensure the sensor is level, facing south, and securely fastened at all mounting points.

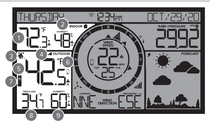
Advanced Installation Options

Some advanced installation options include tripods, wall mounts, eave cross mounts, chimney mounts, and many others. Any of these can be combined with U-bolts for attachment onto a tall cylindrical conduit using our Adjustable Base. Please note that these advanced options will require additional equipment and possibly professional help for best results.

The illustrations above are not to scale and are for informative purposes only . La Crosse Technology is not responsible for any damages or injury that may occur during installation .

TEMPERATURE & HUMIDITY

Viewing Temperature & Humidity Readings



1. **INDOOR TEMPERATURE** Current Indoor Temperature.
2. **INDOOR HUMIDITY** Current Indoor Humidity.
3. **WIND ICON** Indicates the Temperature/ Humidity readings are from the Breeze Sensor.
4. **RECEPTION INDICATOR** Indicates if the station is receiving data from the sensor.
5. **OUTDOOR TEMPERATURE** Current Outdoor Temperature.
6. **LOW BATTERY INDICATOR** Appears when the sensor battery needs to be replaced.
7. **TH SENSOR ICON** Indicates Temperature/ Humidity readings are from add-on TH sensor.
8. **"FEELS LIKE" TEMP** Based on current temperature & wind speed (heat index & wind chill).
9. **OUTDOOR HUMIDITY** Current Outdoor Humidity.

TEMPERATURE & HUMIDITY

Temperature & Humidity Records

View Temperature/Humidity Records

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

Temperature/Humidity Records 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 & Humidity Records

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

"Feels Like" Temperature

This reading indicates both Wind Chill and Heat index values when conditions are 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 51°F and 79°F the readings will remain the same as the outdoor value regardless of humidity or wind speed.

ALERTS

To Set Alerts

1. Hold the **ALERTS** button to enter Alert Settings.
2. Use the +/- buttons to Arm/Disarm Alerts, and to adjust Alert Values when flashing.
3. Press the **ALERTS** button to move to next alert.

Alert Setting Order
- High Wind Speed
- 24 Hour Rainfall
- Outdoor High Temperature
- Outdoor Low Temperature
- Outdoor High Humidity
- Outdoor Low Humidity
- Indoor High Temperature
- Indoor Low Temperature
- Indoor High Humidity
- Indoor Low Humidity

+ – ALERTS

Alert Indicators
Wind Alert
High Alert
Low Alert

Active Alert
- When the alert value is reached, the station will beep 5 times each minute until out of the alert range.
- The flashing Alert Indicator will let you know if it is a HI or LO Alert.
- Press any button to silence the alert. The Alert Indicator will continue to flash while in the alert range.

FORECAST

Viewing Your Forecast Data

Seasonal Trees

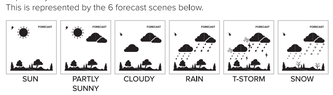
The foliage scene in the forecast section changes twice per year. The dates are pre-programmed.

Summer: April 1 - October 31

Winter: November 1 - March 31

Forecast Icons

Your station will use changes in barometric pressure to predict your weather to come in the next 12 hours. This is represented by the 6 forecast scenes below.



Please Note: The Forecast Icons may not represent your current weather. They are a future prediction of the weather to come over the next 12 hours.

Trend Arrows

The Trend Arrows represent the change in pressure over the past 3 hours.

Pressure is rising · Pressure is steady · Pressure is falling

FORECAST

Day/Night Forecast
- From 7am to 7pm the forecast will show a Sun Icon when the forecast is Sunny or Partly Sunny.

7am to 7pm

- From 7pm to 7am the forecast will show a Moon Icon when the forecast is Sunny or Partly Sunny.

7pm to 7am

Please Note: The Moon Icon does not change to provide Moon Phase. The Moon Icon indicates nighttime only.

ADD-ON SENSOR

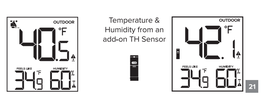
Add-on Temperature & Humidity Sensor

If you feel the temperature & humidity is not reading correctly from your Breeze Pro Sensor, you can add a separate sensor to your system.
Visit: www.lacrossetechnology.com/sensor-finder/ and enter **328-1414BW** to find a list of compatible add-on sensors.

Adding a Separate Temperature & Humidity Sensor

1. Press the- (MINUS) button and the Outdoor Temperature will flash.
2. Hold the **MINUS (-)** button to delete the Temperature & Humidity readings. Your station will search for a signal.
3. Install new batteries into the add-on sensor and press the **TX** button inside its battery compartment. The LED light on the sensor will flash.
4. The sensor should connect almost instantly with its data appearing on screen. The icon will appear when an add-on TH sensor is being used.

Temperature & Humidity from the Breeze Sensor · Temperature & Humidity from an add-on TH Sensor



SUPPORT

Low Battery Indicator

- By Wind, replace batteries in the Breeze sensor.
- By Time, replace batteries in the Station.
- By Rain, replace batteries in the Rain sensor.
- By Outdoor Temperature, replace batteries in the Add-On TH sensor.

Sensor Search

- Hold the **RAIN** button to search for the Rain sensor.
- Hold the **WIND** button to search for the Breeze sensor.
- Hold the **TEMP** button to search for the Add-on TH sensor.

Factory Restart

- Hold the **RAIN** and **ALERTS** buttons together for several seconds to reset the station.
- All records will be lost.

Warnings

WARNING: CHOKING HAZARD—Small Parts
Not for children under 3 years old.

We're Here to Help

If you require additional support, get in touch with our friendly customer support team based in La Crosse, WI.

Phone: 1.608.782.1610
Online: bit.ly/contact_techsupport

Our knowledgable customer support team is available Mon-Fri: 8am-6pm CST

Stay in Touch

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

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

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

APPENDIX

Specifications

STATION (328-1414BW)
- Indoor Temp. Range: 32°F to 122°F (0°C to 50°C)
- Indoor Humidity Range: 10 to 99%RH
- Relative Pressure Range: 23.62 to 32.48 InHg (800 to 1100 hPa)
- Power Requirements:
  - **Primary Power:** 3 "AA" batteries (sold separately)
- Station Dimensions: 8.98" L x 1.00" W x 5.43" H (22.8cm L x 2.6 cm W x 13.8cm H)
- Language Options: **English, Spanish, and French** (Translation Available for Menus & Calendar)

BREEZE SENSOR (TX145WSDTHv3)
- Wind Speed Range: 0 to 111 mph (0 to 178 kMh)
- Degrees of Wind 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 (sold separately)
- Update Interval: Every 31 Seconds
- Sensor Dimensions:
  - **With Bracket:** 11.97" L x 6.25" W x 9.76" H (30.41cm L x 15.88cm W x 24.8cm H)
  - **Without Bracket:** 7.94" L x 6.25" W x 6.99" H (20.17cm L x 15.88cm W x 17.75cm H)

RAIN SENSOR (TX145R)
- Rainfall Range: 0-9999mm (0-393.6 in)
- Transmission Range: 330 feet (100 meters)
- Power Requirements: 2 "AA" batteries (sold separately)
- Update Interval: Every 45 Seconds
- Sensor Dimensions: 7.16" L x 5.24" W x 5.04" H (18.2 cm L x 13.3 cm W x 12.8 cm H)

Care + Maintanence

- 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.
- Promptly remove expired batteries.

Designed in La Crosse, Wisconsin · Made in China · Printed in China · **DC 062220**

APPENDIX

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

La Crosse Technology, Ltd · 2830 S. 26th 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.

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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.

STATEMENTS

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 contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
(1) This device may not cause interference.
(2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :
1) L'appareil ne doit pas produire de brouillage.
2) L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.