

LA CROSSE[®] TECHNOLOGY

BACKYARD WIND + WEATHER STATION




SETUP GUIDE

MODEL NUMBER: 79400

Important

This station does not support connected features and will not connect to WiFi. Some of the on-screen elements may not apply.

Please disregard the following items and messages:

- WiFi Icon 
- SEE APP TO CONNECT
- LOST WIFI
- CONNECT TO WIFI
- WAIT FOR WEATHER
- CHECK APP

Most of these are temporary, and will only show for a limited time.

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WIND

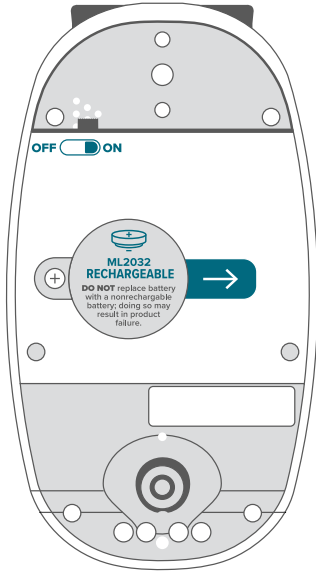
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EXTRA SENSORS

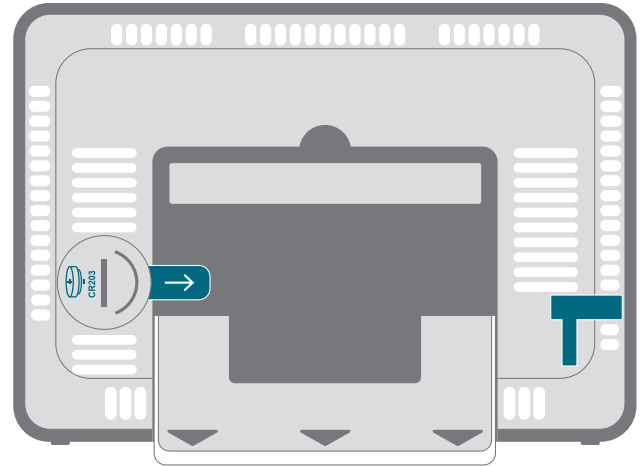
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Initial Setup

Power Up



Bottom of Breeze Pro Sensor
Model No. **LTV-WSDTH01**



Back of Station
Model No. **79400**

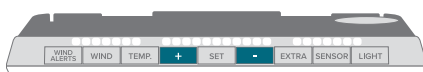
1. Remove the Insulation Tab from the Battery Compartment of your Breeze Pro Sensor, and make sure the power switch is turned **ON**.
2. Insert the 5V Power Adapter into an outlet, and then plug it into the Power Jack on the back of the station. Next, remove the Insulation Tab from your station's Battery Compartment.

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

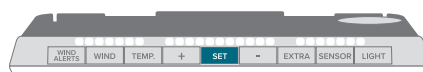
Station Settings

1. When the station is first powered on, it will begin searching for your outdoor sensor, which should connect shortly. Disregard the SEE APP TO CONNECT message.
2. Hold the **SET** button to enter the Settings Menu for adjusting your time, date, and other settings.

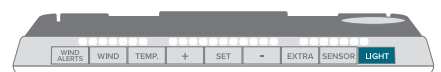
Use the **+/-** buttons on the top of the station to adjust the values.



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



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



Settings Menu Order

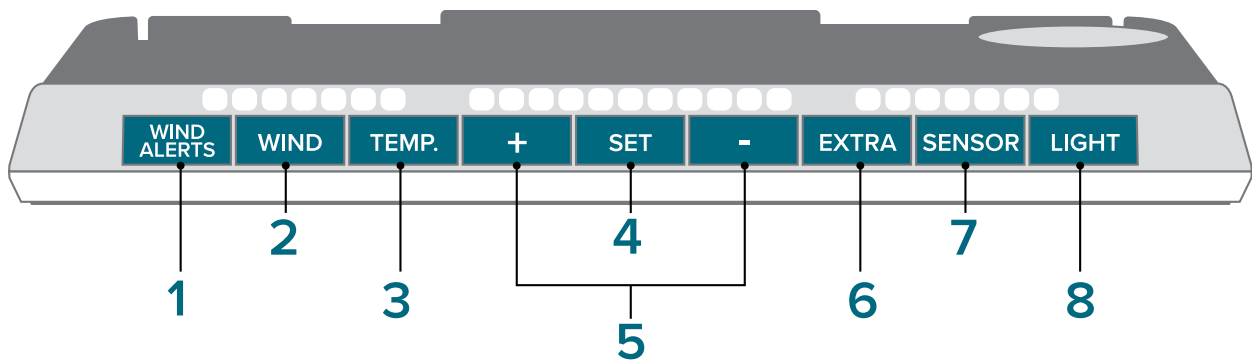
- Language
- Greeting
- 12/24 Hour Time
- Hour
- Minutes
- Year
- Month
- Date
- Fahrenheit/Celsius
- Pressure Units (InHg/hPa)
- Pressure Number Setting*
- Wind Speed Units (MPH or KMH)
- Wind Direction (Letters or Degrees)

Language Options: English, Spanish, French, and German (Translation Available for Menus & Calendar)

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

* **Pressure:** The default pressure reading is 29.92 INHg (1013 hPa). The station will acclimate on it's own if the pressure number is not adjusted manually.

Buttons



1. WIND ALERTS

Hold to enter Wind Alert Settings. Press to turn Wind Alert on/off.

2. WIND

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

3. TEMP.

Press to view Temperature and Humidity History. While viewing, hold **MINUS** button to delete the history reading.

4. SET

Hold to enter Settings Menu.

5. PLUS/MINUS (+/-)

Use to adjust values.

6. EXTRA

Press to toggle through extra sensors and pressure. Hold to add sensors. While viewing, hold the **MINUS** button delete the sensor.

7. SENSOR

Press to view sensor ID numbers. While viewing, hold the **MINUS** button to delete the sensor.

8. LIGHT

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

Please disregard these highlighted button functions on the back of your display:

LIGHT

Press to adjust brightness
Hold to set auto dim

SENSOR

Press to view product IDs
When viewing sensor ID:
Press + to search
Hold - to delete sensor

EXTRA

Press for Pressure, Extra Sensor, or Cycle
Hold to add extra sensor

+/-

Hold + and - to clear and re-search for WiFi
Hold + to call weather server

HOURLY/DAILY

Press HOURLY to scroll 12 hour forecast info.
Press DAILY to scroll 7 day forecast info.

SET

Hold to set time/date
Press for connection status

TEMP.

Press for temp. history records
Hold - to delete record
Hold temp. & wind to view firmware

WIND

Press for wind speed history
Hold - to delete record

FACTORY RESET

Hold WIND ALERT + LIGHT for 5 seconds


WIND ALERTS

Hold to set wind speed alert
Press to turn wind alert on/off

Important

This station does not support connected features and will not connect to WiFi. Some of the on-screen elements may not apply.

Please disregard the following items and messages:

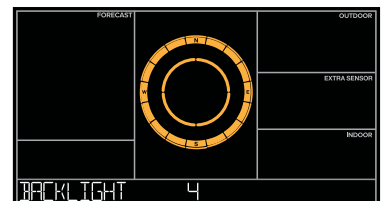
- WiFi Icon 
- SEE APP TO CONNECT
- LOST WIFI
- CONNECT TO WIFI
- WAIT FOR WEATHER
- CHECK APP

LCD Display Brightness



Adjusting the LCD Display Brightness

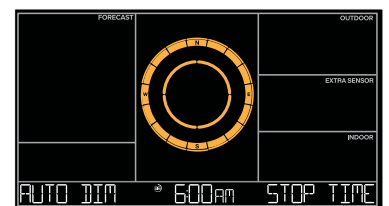
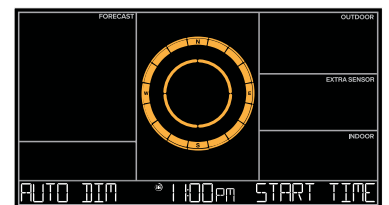
Press the **LIGHT** button to adjust the backlight intensity. There are 4 levels, plus an off option.




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.



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

Positioning the Breeze Pro Sensor



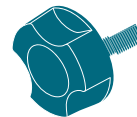
For Accurate Measurements

- Ensure the sensor is mounted level with the Solar Panel facing directly to the south. This will help optimize battery life and transmit correct wind direction readings.
- Ideally, the Breeze Pro Sensor should be mounted on the tallest object in your area. Avoid positioning the sensor in line with or below eaves, rooflines, trees, or other objects that may obstruct wind readings.
- Make sure all screws on the Mounting Bracket, Winds Cup, Wind Vane, and Battery Compartment are securely fastened.
- The sensor should be mounted with the Wind Cups on top.
- The Breeze Pro sensor has a transmission range of 330 feet from sensor to display.

Included Mounting Accessories

Mast:
The horizontal conduit where the sensor attaches. This piece will connect to either the Adjustable Base or the Pole Adapter.

Hand Screw:
Used to lock down and secure the Mast to the Adjustable Base or Pole Adapter.



Adjustable Base:
The main bracket used for mounting onto flat surfaces or with added U-bolts (sold separately). The grooves and Hand Screw allow the bracket to secure to angled surfaces while still ensuring the Mast and sensor are level.

Alignment Arrows:
These Arrows provide exact 90 or 180 degree angles when aligned with the arrow on the Mast.



Pole Adapter
Used in place of the Adjustable Base for mounting on top of cylindrical conduits.
1-Inch Maximum Pole Diameter

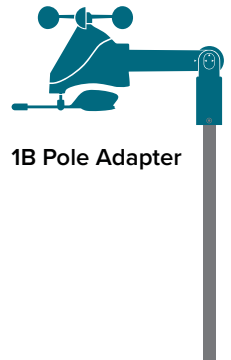
Basic Installation Options

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.



1A Adjustable Base

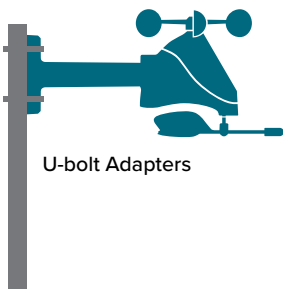
- 1A. Mount the Adjustable Base onto a flat surface using the four provided screws.
- 1B. Secure the Pole Adapter to a cylindrical conduit using the two provided screws.
2. Insert the Mast into the Breeze Pro Sensor and tighten the provided screws on the sides.
3. Use the Hand Screw to attach the Mast to either the Adjustable Base or Pole Adapter. Ensure the sensor is level, facing south, and securely fastened at all mounting points.



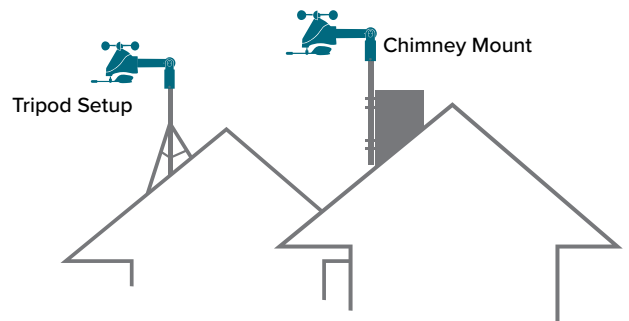
1B Pole Adapter

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.

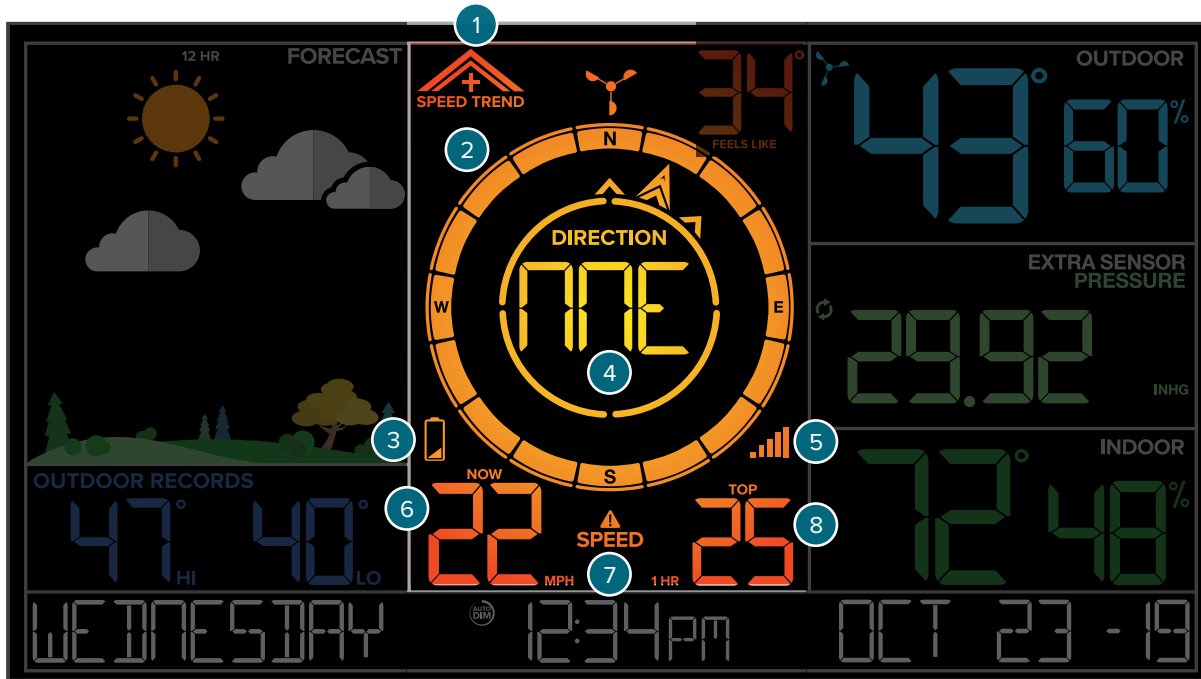


U-bolt Adapters



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.

Viewing Your Wind Data



1. WIND SPEED TREND INDICATOR

Shows wind speed trends over the past 60 minutes

2. COMPASS ROSE

Displays cardinal direction with animated arrows (16 directions total)

3. LOW BATTERY ICON

Appears when the sensor battery needs to be replaced

4. WIND DIRECTION

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

5. RECEPTION INDICATOR

Indicates if the station is receiving data from the sensor

6. "NOW" WIND SPEED

The top wind speed in the past 31 seconds

7. WIND SPEED ALERT

Appears if a wind speed alert is set & active

8. TOP WIND SPEED

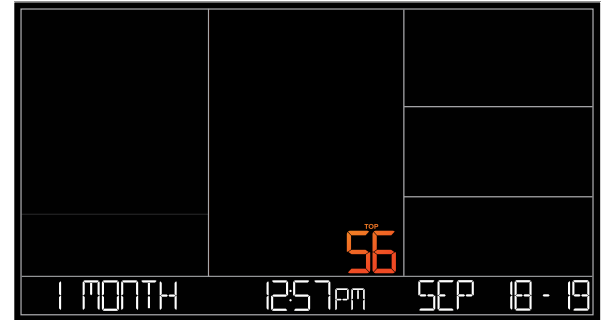
The top wind speed in the past 60 minutes

Wind Speed History and Alerts

Viewing Wind Speed History Records


Press the **WIND** button to toggle through Wind Speed History Records with time and date stamps.

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



Monthly Wind Speed Record Example

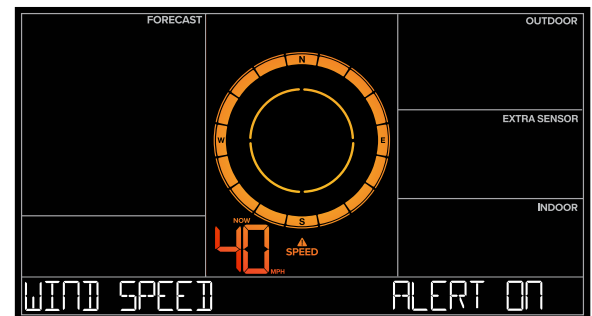
Setting the Wind Speed Alert

1. Hold the **WIND ALERTS** button for to enter the Alert Settings Menu.
2. Use the **+/-** buttons to turn alerts ON/OFF and adjust wind speed settings. Press the **WIND ALERTS** button to confirm your selection.
3. Your Wind Speed Alert is active when the  icon on.

Activate/Deactivate Wind Speed Alert



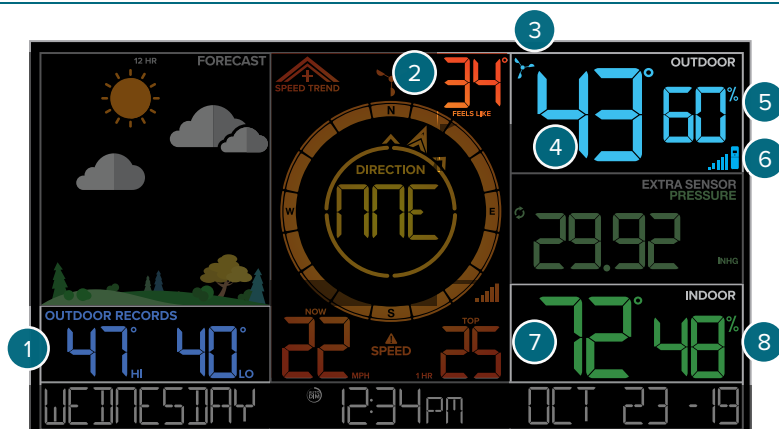
Press and release the **WIND ALERTS** button to activate/deactivate the alert. WIND SPEED ALERT ON or OFF will appear on the bottom of the LCD.



Important Notes:

- The alert is defaulted to be off.
- When the armed alert value is reached, the Alert Icon will flash and your station will beep five times each minute until the value moves out of the alert range. Press any button to stop the alert sound.
- The Alert Icon will remain flashing until out of the alert range.

Viewing Your Temperature & Humidity Data



1. OUTDOOR RECORDS

Daily HI & LO temperature records from your outdoor sensor

2. “FEELS LIKE” TEMPERATURE

Based on current temp. & wind speed (heat index & wind chill)

3. WIND SENSOR ICON

Indicates TH readings are provided by the Breeze Pro Sensor.

4. OUTDOOR TEMPERATURE

Current Outdoor Temperature

5. OUTDOOR HUMIDITY

Current Outdoor Humidity

6. TH SENSOR ICON

Indicates readings are provided by an add-on Temperature/Humidity sensor

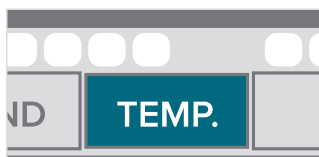
7. INDOOR TEMPERATURE

Current Indoor Temperature

8. INDOOR HUMIDITY

Current Indoor Humidity

Temperature & Humidity History and Alerts



Viewing History Records

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

History 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 & Humidity Records

1. Press the **TEMP** button to view the individual temperature and humidity values you’d like to reset.
2. Next, hold the **MINUS (-)** buttons 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 the temperature is below 50F and there is 5 MPH sustained wind speed.
- **Heat Index:** When temperature is above 80F.
- **Current Temperature:** When the temperature is between 51F and 79F, the reading will remain the same as the outdoor value regardless of humidity or wind speed.

FORECAST

Viewing Your Forecast Data

Seasonal Trees

The foliage scene in the forecast section changes seasonally. The dates are pre-programmed in your station.

Foliage Scenes



Spring (March 20th to June 20th)



Summer (June 21st to Sept. 20th)



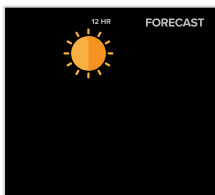
Fall (Sept. 21st to Dec. 20th)



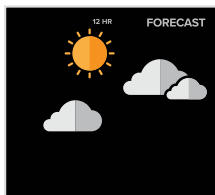
Winter (Dec. 21st to March 19th)

Forecast Icons

The display 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.



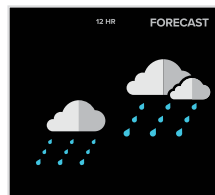
Sunny



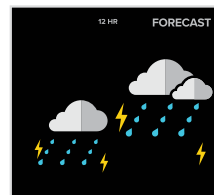
Partly Sunny



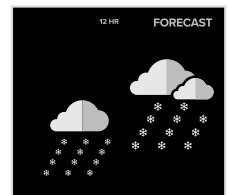
Clouds



Rain



T-Storm



Snow

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.

PRESSURE

Relative Pressure



Pressure Reading Example



- 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 in the Settings Menu.
- The arrows located to the left of the values represents Pressure Tendency (rising/falling).

EXTRA SENSORS

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.

Adding a Separate Temperature & Humidity Sensor

1. Press the **SENSOR** button until you see the Outdoor Temperature and Humidity section light up on screen. "ID WTH 123" and "TWH SENSOR" will appear below.
2. Hold the **MINUS (-)** button to delete these Temperature & Humidity readings.
3. Press the **SENSOR** button until this Outdoor Temp. and Humidity section lights up again. Then hold the **PLUS (+)** button until the blue Sensor Reception Indicator  starts to animate.
4. 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.
5. The sensor should connect almost instantly with its data appearing on screen. The  icon will remain solid on screen when an add-on TH sensor is being used.



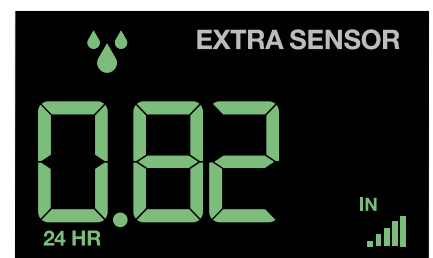
Additional Add-On Sensors

Need a Rain reading? Want an additional Temperature/Humidity sensor?

This station can display data for up to 4 extra sensors. This data will appear in the green EXTRA SENSOR section on the LCD.

Find compatible sensors at:

www.lacrossetechnology.com/sensor-finder/




Rain Data Example

Would you like backyard rain data as well?



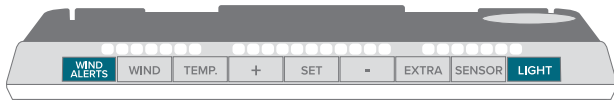
 **Model Number LTV-R3 Rain Sensor**
www.lacrossetechnology.com/R3RainSensor

 **Model Number LTV-TH2 Temp/Humidity Sensor**
www.lacrossetechnology.com/ltv-th2

 **Model Number LTV-WL1 Water Leak Sensor**
www.lacrossetechnology.com/ltv-wl1

SUPPORT

Factory Reset



If you're still experiencing issues, press and hold the **WIND ALERTS** and **LIGHT** buttons down together until the display beeps. You do not need to remove the button cell battery to restart the station.

Having Trouble? We're here to help.

For detailed product videos, manuals, and more, visit our support website:
www.lacrossetechnology.com/support/

Make sure you have your product's model number handy (**79400**)



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

Online: bit.ly/contact_techsupport

Phone Number: **1.608-782-1610**

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

Adding Sensors to Your Station

1. Hold the **EXTRA** button until you see the Sensor Reception Indicator  start to animate.
2. Install batteries into your sensor. If the sensor has a **TX** button, press it to force a transmission signal. This button is usually located in or near the sensor's battery compartment. The LED light on the sensor will flash once.
3. Your sensor should connect within the next 3 minutes, briefly displaying its ID and type on the LCD. The Sensor Reception Indicator will show solid on the screen when a sensor is connected.
4. Press the **EXTRA** button to cycle through the data you'd like displayed on the LCD. The Auto Scroll Icon () will appear if activated.

Note: When first powering up, or after a factory reset, extra sensors should automatically connect to your station.

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.

Specifications

STATION (79400)

- **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:** 5.0V AC Adapter (included) XH0500-0600W
 - **Battery Backup:** 1 “CR2032” Coin Cell Battery (included)
- **Station Dimensions:** 8.22” L x 1.18” W x 5.83” H (20.90cm L x 3.22cm W x 14.81cm 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 (LTV-WSDTH01)

- **Wind Speed Range:** 0 to 111 mph (0 to 178 km/h)
- **Degrees of Wind Direction:** 360° with 16 Cardinal Directions
- **Outdoor Temp. Range:** -4°F to 140°F (-20°C to 60°C)
- **Outdoor Humidity Range:** 10 to 99%RH
- **Transmission Range:** 330 Feet (100 Meters)
- **Update Interval:** Every 31 Seconds (Once every minute for temps below freezing)
- **Power Requirements:** 1 “ML2032” Coin Cell Battery (included)
- **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)

Warning



WARNING

1. This product contains a button battery.
2. If swallowed, it could cause severe injury or death in just 2 hours.
3. Seek medical attention immediately.

WARNING: KEEP BATTERIES OUT OF REACH OF CHILDREN

1. Swallowing may lead to serious injury in as little as 2 hours or death, due to chemical burns and potential perforation of the esophagus.
2. If you suspect your child has swallowed or inserted a button battery, immediately seek urgent medical assistance.
3. Examine devices and make sure the battery compartment is correctly secured, e.g. that the screw or other mechanical fastener is tightened.
4. Do not use if compartment is not secure.
5. Dispose of used button batteries immediately and safely. Flat batteries can still be dangerous.
6. Tell others about the risk associated with button batteries and how to keep their children safe.

Warranty

La Crosse Technology, Ltd. provides a 2-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

La Crosse Technology® Patents

Visit www.lacrosstechnology.com/patents for patent information.

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

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.

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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

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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