V23 FAQS

We are weather enthusiasts like you and know proper running equipment is important. These FAQS provide valuable information on setup, positioning, and troubleshooting of your station. We recommend Adobe Reader version 10 or greater available at: http://get.adobe.com/reader

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GENERAL INFORMATION
LA CROSSE VIEW APP: HOW DO I CONNECT?

MOBILE DEVICE REQUIREMENTS
iOS Requirements:
Mobile device with iOS with cellular or Wi-Fi service

ANDROID Requirements:
Mobile device with Android OS with cellular or Wi-Fi service

ANDROID OS12 Wi-Fi Connection:
Because the Wi-Fi connection setting updates native to Android OS12, you may need to use an alternate method to get your La Crosse Technology display connected to your Wi-Fi network. A full list of workable solutions and updates can be found on our support page here: https://bit.ly/os12_wifi

Please Note: This is just for the Wi-Fi connection process. The La Crosse View app and all its amazing features are fully functional on Android devices running OS12.

DOWNLOAD
Visit the App Store or Google Play Store to download the free La Crosse View app onto your mobile device.

LAUNCH & FOLLOW
Open the La Crosse View app and follow the on-screen instructions.
GET YOUR STATION READY
Ensure your station's Wi-Fi Indicator 📶 is flashing. If it is not, press and hold the Plus (+) and Minus (–) button down together until it begins flashing. This tells you that your station is ready to connect.

HAVING TROUBLE CONNECTING?
Make sure your mobile device is connected to your router's separate 2.4GHz Wi-Fi network, and that you have correctly entered your Wi-Fi password.

For more troubleshooting tips and support visit:
www.lacrossetechnology.com/lacrosseviewsupport

When connecting your station, we highly recommend following along with our detailed support videos, found here:

Bit.ly/LaCrosseView_Support_Playlist

ARE THERE OTHER CONNECTION OPTIONS?

WPS Option: If you followed the instructions in the app and cannot connect your station to the app, you can try connecting via WPS if your router has a WPS button.

1. Activate WPS on your router. This can be done using a dedicated WPS button on the router itself and/or through your router's app or browser-based admin panel. Please consult your router's manual for specific instructions as these can vary by model.

   Once WPS is activated on your router, you will typically have about 2 minutes to complete the next step.

3. On your La Crosse Technology display, press and hold down both the SET and MINUS (-) buttons together for about 5 seconds. You should hear a beep and the display will enter WPS mode, allowing it to connect to your router automatically.

4. After this process is initiated, your router should begin communicating directly with the La Crosse Technology display. If successful, you should notice updated Internet time, date, and weather forecast information as well as a solid Wi-Fi Indicator shortly after the display connects.

HARDWARE: SENSORS AND STATION

Your V23 station comes with:
LTV-W3 (Glide Pro) Wind Speed Sensor
LTV-TH2i Temperature/Humidity Sensor
Both sensors transmit at 915MHz.

WHAT ARE THE POWER REQUIREMENTS FOR THIS STATION?

LTV-W3 (Glide Pro) three "AA" batteries
LTV-TH2i: 2 "AA" batteries.
V23: 5 volt power cord (required) and CR2032 batteries for backup of your time and date. Battery operation only will not update sensor or Wi-Fi data. Power cord is required.

INSTALLING WIND CUPS IF NEEDED

Depending on how your station is packaged, you may need to install your Wind Cups onto your Glide sensor.

1. Remove the Glide Sensor, Wind Cups, and Mini Screwdriver from the package. Take note of the flat edges located on the head of the Glide Sensor and underside of the Wind Cups.
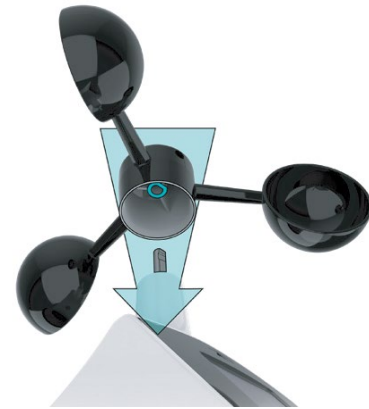
2. Align the flat edges and place the Wind Cups on top of the Glide Sensor.
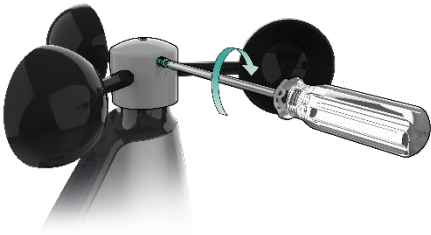
3. Carefully tighten the screw on the side of the cups using the Mini Screwdriver. The screw should tighten into the flat edge of the post.
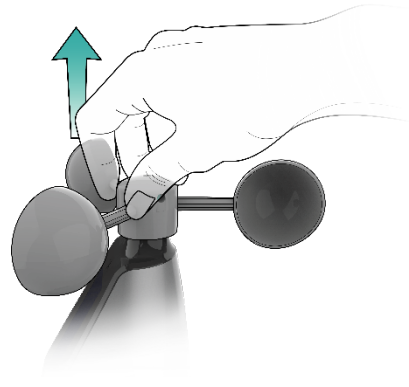
4. When the screw is tight, gently pull up on the cups to ensure they are secure. If they pull off, start again with step two.

SETUP: HOW DO I SETUP MY STATION?

Your station is a fully functional standalone station.
1. Insert three "AA" batteries into the LTV-W3 sensor.
2. Insert two "AA" batteries into the LTV-TH2i sensor.

3. Install five volt power cord into the outlet, and into the station. Remove the insulation tab from the CR2032 battery in your station.
4. Let the sensor and station sit within ten feet of each other for several minutes to lock the sensor signal to the display.

Once the sensor is connected, you can choose to connect to the La Crosse View™ app or continue to use as a standalone station. You can always connect later if you choose.

MOUNTING: WHERE DO I MOUNT/POSITION MY SENSORS?

LTV-W3 (Glide Pro)

- Ideally, the sensor should be mounted on the tallest object in your area. Avoid positioning it 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, and Battery compartment are securely fastened.
- The sensor should be mounted with the Wind Cups on top.
- To optimize battery life, ensure the Solar Panel is facing the sun. The Solar panel alone will not operate the sensor, batteries are required.
- For more information visit: bit.ly/wind_sensor_mounting
- The maximum wireless transmission range to the station is up to 400ft (121m) in open air. This does not include walls, floors, or other large obstructions.

Basic Mounting:
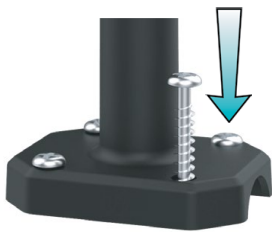
2. Mount the Mast to a flat surface with the four provided screws.

1. Place the Glide Sensor on top of the Mast. Ensure the Solar Panel is facing south.
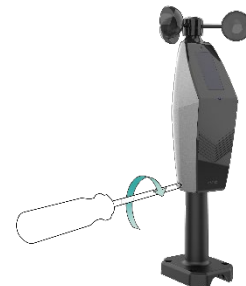
3. Secure the Glide Sensor to the Mast by tightening the screws on the side.

Flexible Installation
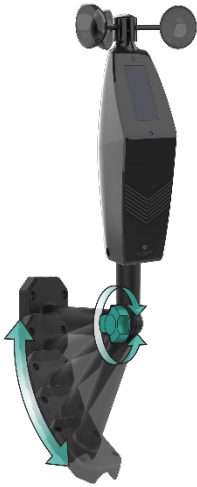
1. Install the Hand Screw to the bracket, then Secure the Glide Sensor to the Mast by tightening the screws on the side. This configuration allows you to attach the sensor to angled locations and easily adjust ensure the Mast and Sensor are level.

Advanced Installation

Some advanced installation options include tripods, wall 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. These options will require additional equipment and professional help for the best results.

LTV-TH2i:

- Insert a mounting screw through the hole at the top to securely mount the sensor. It can also hang from the back using a nail.
- Mount the sensor vertically in a protected well-shaded area. Keeping it out of direct weather elements such as sunlight, rain, snow, etc. will help avoid inaccurate readings.
- For additional protection against weather elements, a Sensor Weather Shield: bit.ly/weather-shield can be purchased separately.
- The maximum wireless transmission range to the station is up to 400ft (121m) in open air. This does not include walls, floors, or other large obstructions.
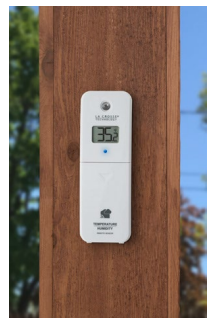
For online video instruction visit: bit.ly/th_sensor_mounting

WHERE TO I PLACE MY STATION?

Your station is designed for flexible placement on a desk or countertop, or to position on the wall. When the stand is closed, it provides wall mounting holes.

- Position within reach of an outlet that is always active. Some outlets in living rooms and in bedrooms may only be active when the light switch is on.
- This station must operate with a 5 volt power cord to receive sensor updates and/or to update Wi-Fi data when connected. Operation on battery power will only maintain time/date settings if you need to move your station.
- The best reception occurs when only one wall is between your station and each sensor outside.
- Position you station six feet from other electronics and wireless devices. If you suspect RF (radio frequency) interference, simply move your weather station a few feet.

WHAT IS DISTANCE | RESISTANCE | INTERFERENCE?

Distance:
- The maximum transmitting range in open air is over 400 feet (121.92 meters) between each sensor and your station.
- Consider the signal path from your station to each sensor as a straight line.
- Consider the distance the station is from other electronics in the home.

Resistance:
- Each obstacle: walls, windows, vegetation, stucco, concrete, and large metal objects will reduce the effective signal range by about one-half.
- Mounting your sensors on a metal fence can significantly reduce the effective signal range.

Interference:
- Consider electronics in the signal path between the sensors and your station.
- Simple relocation of the sensors or the station may correct an interference issue.
- Windows can reflect the radio signal.
- Metal will absorb the RF (radio frequency) signal.
- Stucco held to the wall by a metal mesh will cause interference.
- Transmitting antennas from: ham radios, emergency dispatch centers, airports, military bases, etc. may cause interference.
- Electrical wires, utilities, cables, etc. may create interference if too close.

WIND SPEED

HOW DO I INTERPRET THE CURRENT WIND READINGS?

Wind Speed Readings:

- **WIND SPEED:** 31 second **highest** wind speed. Within 31s cycle time, there are 10 sample data (3s for each). The largest among these 10 samples will be sent as the current wind speed.
- **Top (1 HR):** Top Wind Speed in the past 60-minute period, from last record (10 minutes a timestamp, total 6 records) (default record no time stamp).

In addition to the one hour history which is constantly shown on the station, you can view wind speed history at 24 hours, 7 days, current month, and current year.

1. Press and release the WIND button to view the maximum Wind Records values (Top Speed).
2. When viewing MONTH, use PLUS button to toggle through the current month and past 11 months top speed.

   • **24 Hour Wind Speed** – Shows the top speed in the past 24 hours from the last record. This is a rolling 24 hour period and not a set midnight to midnight reading. This means it updates each hour to show you the past 24 hours.

   • **7 Days** - Shows the top speed in the past 7 days from the last record. This is a rolling 7 day period, not a Monday through Sunday record. Updates at midnight each day.

   • **Month** – Shows top wind speed for the current month. The record is from the first day of the month to the last day of the month. When in the middle of the month, it will show the readings from the first day of the month to the last full day. Example: If today is the 15th of the month, the top speed is from the 1st to the 14th. After midnight, the 15th will be included. **Note**: Press and release the PLUS (+) button to view up to 11 previous months or history.

   • **Year** – Shows top wind speed for the current year. January 1, through December 31st.

Wind Speed Graph:

The Wind Speed Graph will color in based on the Wind Speed from the Sensor.

Wind Cup Animation: If the wind speed is equal to 0, no animation.

The wind cups icon should be animated. The icons will move at different speeds according to the actual speed reading. (High wind speed, icon rotation is faster)

HOW DO I RESET THE WIND HISTORY READINGS?

Your wind speed history readings are reset individually.
1. Press and release the WIND button to view the history reading you wish to reset.
2. Hold the MINUS (-) button for 5 seconds to reset that value to current wind speed.
3. Press and release the LIGHT button to exit.

HOW OFTEN DOES MY WIND SENSOR UPDATE?

• Within 31s cycle time, there are 10 sample data (3s for each). The largest among these 10 samples will be sent as the current wind speed.

- Any change of 0.8km Wind Speed will cause the sensor to send the top speed for those 31 seconds.
- If there is no change in wind speed, the sensor will transmit every 3 minutes to preserve battery life.

WIND DIRECTION OR TOP SPEED (24 HRS) READINGS.

- Your Glide sensor does not provide Wind Direction.
- Wind Direction will come from the Internet when connected.
- If not connected, and using a Wind Speed Only Sensor, the direction area will read Top Wind Speed past 24 hours.

Degrees or Letters:
- The Wind Direction is displayed in letters.
- In the settings section, you can choose the direction to display in degrees. EX: NNE would read as 30°.

Note: Other sensors that include Wind Direction can connect to your station instead of the LTV-W3 sensor. If using a sensor that has Wind Direction, an icon will show indicating the wind spedd and direction are from the sensor.

Cyclone Sensor

Breeze Pro Sensor

Internet Wind Direction

TEMPERATURE & HUMIDITY

HOW DO I VIEW MY HI AND LO TEMPERATURE/HUMIDITY READINGS?

Your high and low temperature and humidity readings are recorded with time and date of occurrence. Each time a new high or low reading is recorded, that reading with time and date of occurrence will show.
To view your HI | LO records, simply press and release the TEMP button.

Viewing order:
- Outdoor HI Temperature
- Outdoor LO Temperature
- Outdoor HI Humidity

- Outdoor LO Humidity
- Indoor HI Temperature
- Indoor LO Temperature
- Indoor HI Humidity
- Indoor LO Humidity

- Feels Like HI
- Feels Like LO
- Dew Point

Note: Dew Point does not have a time/date of occurrence.

HOW DO I RESET THE TEMPERATURE/HUMIDITY READINGS?

Your temperature and humidity readings are reset individually.
1. Press and release the TEMP button to view the reading you wish to reset.
2. Hold the MINUS (-) button for 5 seconds to reset individual temperature or humidity value to current temperature, humidity, time, and date.
3. Press and release the LIGHT button to exit.

WHAT IS FEELS LIKE AND DEW POINT TEMPERATURE?

Feels Like temperature indicates both Wind Chill and Heat index on stations with wind speed.

- **Feels Like Temperature shows Wind Chill:** When the temperature is *below 50°F,* and a 5 mph sustained wind speed, the Feels like Temperature is showing Wind Chill.

- **Feels Like temperature shows Heat Index:** When the temperature is *above 80°F*, the Feels Like temperature shows the Heat Index.

- **Feels Like temperature shows Current Temperature:** When temperature is between 51°F and 80°F, the Feels like temperature will *remain the same* as the outdoor temperature regardless of humidity or wind speed.

WEATHER STATION READINGS
WHAT IS THIS EXTRA SENSOR AREA?

Explanation: The Extra Sensor area is a place to show up to 4 additional, compatible, sensors on the station itself. These sensors will share space with the Pressure Reading. These sensors may also be scanned to your La Crosse View App.

If you do not have or want additional sensors, this area will show you the Barometric Pressure from your weather station's internal Pressure Sensor.

Optional Extra Sensors: Up to 4 additional Thermo-Hygro, Wind Speed, Water Leak, Pool, BBQ, or any combination of these sensors can read to the EXTRA SENSOR area of your display. Simply press and release the EXTRA SENSOR button to view these sensors or turn on Auto Scroll.

Cycle Mode (Autoscroll)   :

Auto-scroll: Press and release the EXTRA SENSOR button to toggle through sensors. The last item will show AUTOSCROLL, and the icon   . If the user cycles through again and Auto-scroll is off, you will just see the first sensor connected, then toggle through Pressure and the other sensors as usual.

Note: Not all sensors will read to the station. Be sure to check the chart to see if a sensor can read to the app only, or both station and app.

HOW DO I ADD EXTRA SENSORS TO MY STATION?

Purchase additional sensors at: https://bit.ly/v23_parts

1. Hold the EXTRA SENSOR button for 3 seconds, to add a sensor to the station.
2. Install batteries in the sensor, and if the sensor has a TX button, Press and release the TX button to force a signal.
3. Allow up to 3 minutes to view sensor and ID on station.
   Note: Once the sensor is found the search will stop. Sensor, ID, and type will show for 3 seconds then return to normal display.
4. Scan sensor bar code ID so it will read in the La Crosse View app.
5. Added sensors will be available for display in the Extra Sensor area of the station.

HOW DO I DELETE EXTRA SENSORS FROM MY STATION?

1. Press and release the EXTRA SENSOR button until you see the sensor and ID you wish to delete.
2. Hold the MINUS (-) button for 3 seconds to delete this sensor. The sensor readings and ID will show dashes.
3. Sensors will no longer show in the Extra Sensor area.

HOW DO I ADD SENSORS TO MY APP?

Open your La Crosse View app to add sensors. Watch the video for adding devices to the La Crosse View app: http://bit.ly/LaCrosseView_Support_Vid_10
1. From Main Menu - select "Devices" under "Add/Edit"
2. On Edit Devices page - select "ADD DEVICE"

3. Scan Device ID - Scan the bar code on your sensor or choose "ADD MANUALLY" to type in the number on the bar code. Select "CONTINUE."
4. On Confirm Device page - Confirm the sensor image and select "YES"
5. On Enter Device and Location Name page - enter Device Name and select a location or enter a Location
6. Name for your sensor. Select "DONE."

Repeat steps 1-5 for any additional sensors you wish to add.

TROUBLESHOOTING THE SENSORS

WHAT DOES A READING OF "HI" OR "LO" MEAN?

- If your outdoor temperature reading shows "HI" or "LO," check that your batteries are good.
- Overpowered or underpowered batteries can cause this reading.
- If the batteries are good, replace the outdoor sensor.
- If your temperature is fine but your humidity is reading "HI" or "LO" or dashes, your humidity may be below 10% Relative Humidity. Your sensor does not read below 10% humidity.

HOW DO I CHANGE BETWEEN FAHRENHEIT AND CELSIUS?

- On your Temperature/Humidity sensor, open the battery cover and Press and release the F/C button. This will change the temperature display on the sensor only.
- On your station enter the program menu to select Fahrenheit or Celsius temperature display on the station.

WHY ARE MY WIND CUPS NOT SPINNING?

- Check for debris or ice preventing cups from moving.
- Check mounting location. Look for obstructions that prevent the wind from reaching the sensor.
- In most cases, the wind sensor needs to be 4-6ft above the highest point on the roof to clear nearby obstructions and read accurately.
- A 50-foot clearance in all directions is best.
- Push down firmly on the center of the cups to reseat them.
- Cups are replaceable.

WIND READING 0.00: WHY DO I ONLY SEE 0.00 FOR WIND SPEED?

The 0.00 means your wind sensor is connected to your station.
- Check that the cups spin freely. Something may be preventing movement.
- Are your wind cups unbroken? After a storm it is good to check this.

WIND SHOWS "NO": WHY IS THERE "NO" FOR WIND READINGS?

First, Press and release the EXTRA SENSOR button on your station to view the ID number for the Station. Compare it to the first six characters on the barcode on the back of the station.
- If they match-Continue with troubleshooting below.
- If they do not match contact support.

In some cases, under extended periods of cold and/or dark conditions, the sensor can get stuck in a low power mode of sorts. To kick it back on, simply remove and reinsert the batteries.

However, if this still does not resolve the problem, please try the following steps:

1. Be sure to mount the Glide Sensor level, with the solar panel facing south, and in an open area to allow for the most sunlight possible.
2. Hold the WIND button on your station to search for the sensor.

"NO" indicates the connection is lost between your station and the wind sensor.
- My first thought is always to check that my batteries are good. If it has been working and now is not, low batteries are the most common connection problem.
- Next, check your distance, resistance, and interference. If everything was working previously at the same location, this is not the issue. However sometimes there is new growth on trees or bushes that causes another barrier. Radio Frequency (RF) signal does not travel well through foliage due to the moisture content.
- Occasionally adding a new wireless electronic device to the home will cross the signal path for the sensor. If this occurs, try moving your station a few feet or turning the station 90 degrees for a better angle to receive the sensor signal.

WHY DO MY READINGS COME AND GO?

- RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g., moist climates).
- If a sensor goes out, please wait 2-4 hours for it to reconnect on its own. Please be patient – these stations can reconnect on, after many hours out.
- RF (radio frequency) communication is not always 100% on. Certain temporary conditions can cause it to go out for a time (e.g., 100% humidity).
- Check that your sensor is receiving full sun on the solar panel.

If a miss happens:
- If your wind sensor loses connection to the station for any reason, the station will show dashes after 30 minutes.
- The station will search for 5 minutes every hour to reconnect with wind sensor.

Try this:
- Bring your wind sensor within ten feet of your station and make sure it is connected to the station.
- After 15 minutes move the wind sensor into the next room with a wall between the sensor and the station for 1 hour.
- If there is no loss of signal in that hour, move the wind sensor just outside.
- Continue moving the wind sensor back to its original location.
- If you lose connection, look for sources of interference.

WIND ACCURACY: WHY IS MY WIND SPEED INACCURATE?

- What are you comparing your wind speed to? Your local reporting station is miles from your location and should not be used for comparison.
- Check the unit of measure (MPH, or KMH).
- Check to see if your station receives the same repetitive wind speed recording from the sensor multiple times.
- Check that the cups turn freely.
- Check for obstructions that prevent clear wind flow to the cups.
- Check mounting. In most cases, the wind sensor needs to be six feet or more above the highest point on the roof to clear nearby obstructions and read accurately. A 50-foot clearance in all directions is best.
- It is helpful to send pictures of the sensor mounting if you need to contact customer support.

WHY ARE THE SENSOR READINGS ON MY STATION DIFFERENT FROM THE SENSOR READINGS IN THE APP?

- The reading on your station is the "real time" reading. Your station updates as soon as it receives a new reading from the sensor.
- The App updates data every 60-90 seconds.
- Since Wind Speed changes frequently, this is the common difference you may notice between your station and your app.

ALERTS

DOES THIS STATION HAVE ALERTS?

You may set Wind Speed, Temperature, and Humidity alerts on your station.
- Alerts are defaulted to be OFF.
- The alerts menu is in the order listed below.
- When alert is ON, the alert value flashes to be set. No additional button press required.
- Leave an alert OFF (disarmed) Press and release the ALERT button to skip setting that alert value.
- The HI or LO alert icon will show when the alert is active.

- When armed alert value is reached, station will beep five times each minute, until out of alert range. The flashing Alert Value and Icon will indicate it is a LO or HI alert.
- Press and release any button to stop the temp alert sound. The alert icon will flash while value is in alert range.

Alert Setting Order:
- High Wind Speed Value 0-111.8 (0-178kmh)
- Outdoor HI Temperature
- Outdoor LO Temperature
- Outdoor HI Humidity
- Outdoor LO Humidity
- Indoor HI Temperature
- Indoor LO Temperature
- Indoor HI Humidity
- Indoor LO Humidity

Set Alerts:
1. Hold the ALERTS button for 2 seconds to enter Alert Settings. (ALERT OFF and Alert Type will show for selected area). Press and release the + or – button to turn alert ON.
2. When the alert is ON, the alert value flashes. Use the + or – buttons to set alert value. Hold the + or – buttons to scroll quickly.
3. Press and release the ALERTS button to move to the next item.
4. Leave an alert OFF (disarmed) and Press and release the ALERTS button to skip setting that alert value.
5. The alert icon will show when the alert is active.

Alert Triggered:
1. When armed alert value is reached, station will beep five times each minute, until out of alert range. (1 second beep once, sound for 5 seconds, wait 55 seconds and then repeat began to ring for 5 seconds.)
2. The flashing Alert Icon and Alert Value will indicate if it is a LO or HI alert.
3. Press and release any button to stop the temp alert sound. The alert icon will flash while value is in alert range.

BUTTON FUNCTIONS.

There are ten buttons on the top, back, and front of the station.

On Top: ALERTS | WIND | + PLUS | SET | - MINUS | TEMP | LIGHT

On Front: EXTRA SENSOR | FORECAST

On Back: WIFI

1. **ALERTS button**
   Normal Time Display-
   - Hold the ALERT button for 2 seconds to enter Alert Settings.

   Alerts Mode-
   - Press and release to confirm & move to the next alert.
   - Press and release the +/- buttons to arm or disarm and alert.

   Factory Reset-
   - Hold **ALERTS** and **LIGHT** buttons together for 5 seconds to reset all sensor ID's and WI-FI settings.

2. **WIND button**
   Normal Display-
   - Press and release to view top wind speed with time and date stamp:
   - Hold to search for Wind sensor in parked position.

   Station and Wi-Fi versions
   - From a normal display **hold** the WIND & + (PLUS) buttons together for 2 seconds to view the station Firmware Version for 3 seconds, followed by the WI-FI Module Version for 3 seconds.

   Wind Record Mode-
   - Hold MINUS button 5 seconds to delete individual wind record readings.

3. **+(PLUS) Button:**
   Normal Time Display-
   - Hold +/- buttons together sounds beep and deletes current SSID and Password. Then initiates SoftAP provisioning mode.

   Setting Mode-
   - Press and release to increase the values by one.
   - Hold 2 seconds to quickly adjust values.

   Alerts Mode-
   - Press and release the +/- buttons to arm or disarm and alert.
   - Use +/- buttons to set alert values.

   SoftAp:
   Hold SET & PLUS together - Press and Hold sounds beep and Initiates SoftAP mode.

   Station and Wi-Fi versions
   - From a normal display hold the WIND & + (PLUS) buttons together for 2 seconds to view

the station Firmware Version for 3 seconds, followed by the WI-FI Module Version for 3 seconds.

4. **SET button:**
   Normal Time Display-
   - Hold for 2 seconds to enter setting mode for time, date, etc.
   - Press and release to check for connection status updates.
     - ALL OKAY CONNECTED
     - LOST WI-FI
     - NO WEATHER SERVICE

   WPS:
   Hold SET & MINUS Press and Hold sounds beep and initiates WPS provisioning mode.

   SoftAp: Hold SET & PLUS together - Press and Hold sounds beep and Initiates SoftAP mode.

5. **– (MINUS) Button:**
   Normal Time Display-
   - Hold +/- buttons together sounds beep and deletes current SSID and Password. Then initiates SoftAP provisioning mode.

   Settings-
   - Press and release to decrease values during setting.
   - Hold 2 seconds to quickly adjust values.

   Alerts Mode-
   - Press and release the +/- buttons to arm or disarm and alert.
   - Use +/- buttons to set alert values.

   Sensor Mode (viewing sensor ID's)-
   - Hold 5 seconds to delete sensor ID.

   History Records Mode-
   - Hold 5 seconds to delete individual records.
   WPS:
   - Hold SET & MINUS Press and Hold sounds beep and initiates WPS provisioning mode.

6. **TEMP button-Outdoor Temp/humidity sensor**
   Normal Time Display-
   - From normal display, press and release the **TEMP** button to view indoor and outdoor HI LO temperature/humidity records and Feels Like and Dew Point.
   - Hold to search for TH sensor in parked position.

Temp Mode-
- Hold MINUS button 5 seconds to delete individual temp/humidity readings.

7. **FORECAST button:**
   Normal Time Display-
   - Press and release to view 12 HOURLY forecasts and 7 DAILY forecasts
   - Hold 2 seconds to scroll through all 12 HOURLY forecasts and 7 DAILY forecasts
   - **Lost connection to weather service:** Press and release button and station will say WAIT FOR WEATHER
   - **Not Connected:** Press and release button and station will say CONNECT TO WI-FI.
   - **While Scrolling:** Press and release to stop scrolling and return to normal display.

8. **EXTRA SENSOR button**
   Normal Time Display-
   - Press and release to view individual station ID and sensor IDs in parked position & in Extra Sensor Area on weather station.

   Hold to Add Extra Sensors.
   - Hold the EXTRA SENSOR button to add additional sensors to the Extra Sensor Area if there is an open spot.

   Sensor Mode (viewing sensor ID):
   - Hold the - MINUS button for 5 seconds to delete the sensor and ID.

9. **LIGHT button:**
   Normal Time Display-
   - Press and release to change the LCD backlight brightness (5 levels)
   - Hold to set Auto Dim start/stop time.

   Setting Modes-
   - Press and release to exit any setting mode.

   Factory Reset-
   - Hold **ALERTS** and **LIGHT** buttons together for 5 seconds to reset all sensor ID's and WI-FI settings.

10. **WIFI button**
    - **Press and release**- Sounds beep and Initiates SoftAP mode.
    - **Hold for 10 seconds**- Sounds beep and deletes current SSID and Password. Then initiates SoftAP provisioning mode.

TIME: DOES THIS STATION HAVE ATOMIC TIME?

Your station does not have atomic time.

- **Standalone station:** When operating as a standalone station, the time needs to be set manually on this station.

- **Connected to the La Crosse View™ app:** When operating as a connected station the time and date will update from the Internet. Your station checks with the View Weather Server at least four times per day.

HOW DO I MANUALLY SET THE TIME?

When operating as a standalone station, you can manually adjust your station's settings:
1. Hold the SET button for 2 seconds to enter settings mode.
2. Press and release the + or - button to adjust the flashing values.
3. Hold the + or - button to adjust quickly.
4. Press and release the SET button to confirm adjustments and move to the next item.
5. Press and press the LIGHT button at any time to exit.

Settings Order:
- Greeting HELLO
- Language (English, Spanish, French, & German)
- Beep ON/OFF
- 12HR/24HR
- Hour
- Minute
- Year
- Month
- Date
- Month/Date or Date/Month
- Fahrenheit/Celsius
- Decimal ON/OFF
- Pressure Units INHG or HPA
- Pressure Number
- Wind Speed MPH or KMH
- Wind Direction Letters or Degrees
- THANK YOU

> **NOTE:** When in 24-hour time format the seconds will show in place of AM/PM.

Note: Units in the settings menu reflect how sensors will show on the station and which units are shown in Data Stream. This includes the Extra sensors. I.E. When Fahrenheit is selected, Fahrenheit will show on station and in Data Stream.

Settings Menu

1. On startup or if you hold the SET button for 2 seconds to enter setting mode. HELLO, will show for two seconds, then automatically move to language. **ENGLISH** will show. Press and release the + or - button to change to another language (Español, Français or Deutsch). Press and release the SET button to select Beep ON/OFF.
2. **BEEP OFF** will show. Press and release the + or – button to turn beep sound OFF. Press and release the SET button to move to 12/24-hour time.
3. **12/24 FORMAT** will show. 12HR flashes. Press and release the + or - button to turn select 24-hour time format.
4. Press and release SET to confirm and move to the hour. **HOUR** will show. The hour flashes. Press and release the + or - button to choose the hour.
5. Press and release SET to confirm and move to the minutes. **MINUTES** will show. Minutes flash. Press and release the + or - button to choose the minutes.
6. Press and release SET to confirm and move to the year. The **YEAR 2022** will show. Year will flash. Press and release the + or - button to change the year.
7. Press and release SET to confirm and move to the month. The **MONTH** will show. The Month will flash. Press and release the + or - button to change the month.
8. Press and release SET to confirm and move to the date. **DATE** will show. Date will flash. Press and release the + or - button to change the date.
9. Press and release SET to confirm and select Month/Date or Date/Month display. The **MONTH/DATE** will show. Press and release the + or - button to select DATE/MONTH.
10. Press and release SET to confirm and move to the temperature unit. **FAHRENHEIT** will show. Press and release the + or - button if you prefer Celsius.
11. Press and release SET to confirm and move to the temperature Decimal Choice. **DECIMAL** ON will show. Press and release the + or - button if you prefer DECIMAL OFF.
12. Press and release SET to confirm and move to Pressure units. **BAROMETRIC PRESSURE** will show. **INHG** will flash. Press and release the + or - button to select HPA.
13. Press and release SET to confirm and move to adjust pressure number. **BAROMETRIC PRESSURE** will show. **Pressure number** will flash. Press and release the + or - button to adjust pressure number.
14. Press and release SET to confirm and move to wind units. **WIND SPEED** will show. **MPH** will flash. Press and release the + or - button to select KMH.
15. Press and release SET to confirm and move to the wind direction. **WIND DIR LETTERS** will show. **NNE** will flash. Press and release the + or - button to select DEGREES.
16. Press and release SET to confirm. **THANK YOU** shows for 2 seconds, then exit the setting menu.

Note: After 10 seconds with no button press, the station returns to normal time display

OTHER WEATHER STATION FEATURES
BACKLIGHT: DOES THIS STATION HAVE A BACKLIGHT?

Yes, your station has a backlight with five levels of intensity.
- Press and release the LIGHT button to adjust the backlight intensity or to turn it off.
- Intensity levels: 0% (OFF) | 1.5% | 20% | 50% | 100%

WHAT IS AUTO DIM?

You can set your backlight to automatically dim to level 1 at a set hour for sleeping, then automatically return to full brightness when you wake.

Set Auto Dim (Hour only):
1. Hold the LIGHT button for 2 seconds to enter dimmer set mode. AUTO DIM OFF will show.
2. Press and release the + or − buttons to turn dimmer (ON). AUTO DIM ON will show.
3. Press and release the LIGHT button to select start time (Hour) for dimmer. AUTO DIM START TIME and the hour will flash.
4. Press and release the + or − buttons to change the hour for the dimmer to be low light level.
5. Press and release the LIGHT button to select the start time for dimmer to be on High light level. AUTO DIM STOP TIME and the hour will flash.
6. Press and release the + or − buttons to change the hour for the dimmer to be high light level.
7. Press and release the LIGHT button to confirm exit.

Note: Hold LIGHT button at any time to exit dimmer settings.

CAN I OPERATE MY STATION ON BATTERY POWER ONLY?

- **No**, the five volt power cord is required for your sensors to update.
- When you operate as a connected station, the five volt power cord is required to maintain Wi-Fi connection and sensor updates.

BATTERY: WHAT DO THE BATTERY ICONS MEAN?

- Low battery by Outdoor Temperature, replace batteries in the TH sensor.
- Low battery by Wind, replace batteries in the Glide Wind sensor.
- Low Battery by Time, replace batteries in station.

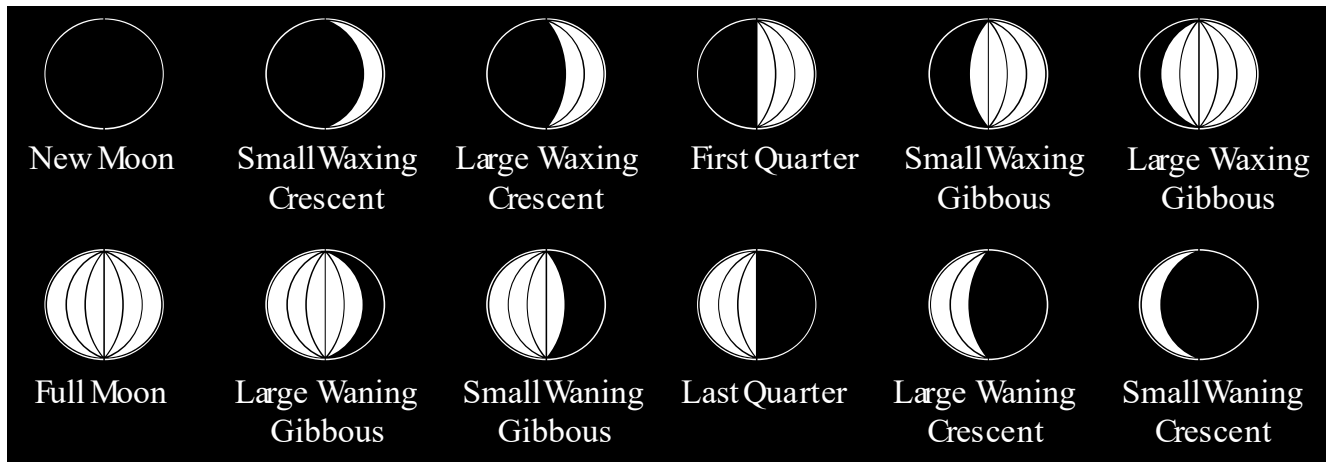## WEEKDAY: HOW DO I CORRECT THE DAY OF THE WEEK?

- When operating **as a standalone** station, the day of the week will set when the Year, Month, and Date are set. If your day of the week is incorrect, yet the month and date are correct, please go the program menu and check the YEAR setting.

- Yes, you can select 12 hour or 24 hour time format in the program menu.

WHY DOES THE MOON PHASE SHOW WHEN IT IS STORMING?

The station will show Moon Phase in the forecast area from 7:00pm to 6:59am whether operating as a standalone or connected station. The Moon Phase will during all Forecast options.

New Moon	Small Waxing Crescent	Large Waxing Crescent	First Quarter	Small Waxing Gibbous	Large Waxing Gibbous
Full Moon	Large Waning Gibbous	Small Waning Gibbous	Last Quarter	Large Waning Crescent	Small Waning Crescent

The Sun Icon will show between 7:00am and 6:59pm only when Sunny or Partly Sunny is forecasted. So, we will have a day and night forecast whether operating as a standalone or connected stations.

Standalone Station: When operating as a standalone station, the forecast icons predict weather conditions over the next 12-hours based on the change of atmospheric pressure with about 70-75% accuracy. As weather conditions cannot be 100% correctly forecasted, we are not responsible for any loss caused by an incorrect forecast.

Forecast Icons for standalone station:
- Sunny
- Partly Sunny
- Cloudy
- Rain
- T-Storm
- Snow

Note: The "snow" icon appears when the temperature is below 32°F (0°C) and the forecast is rainy or stormy.
- Your station calibrates barometric pressure based on its location over time to generate an accurate, personal forecast. Please allow 7-10 days for barometer calibration.

Note: As the Station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the Station operates in one location the more accurate the forecast icons will be.
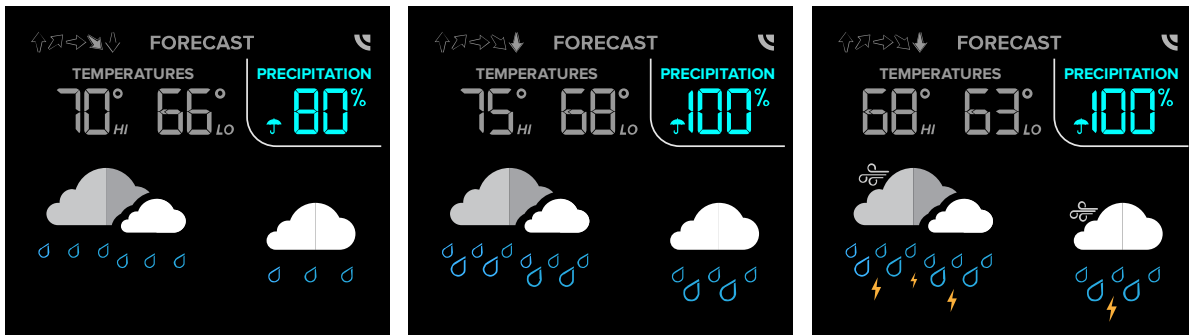
Connected Station: When your station is connected to the La Crosse View™ app you will see an additional eight forecast icons from AccuWeather. Your forecast will update multiple times per day. Between the hours of 7:00pm and 6:59am, your station will also show Moon Phase in the forecast area.

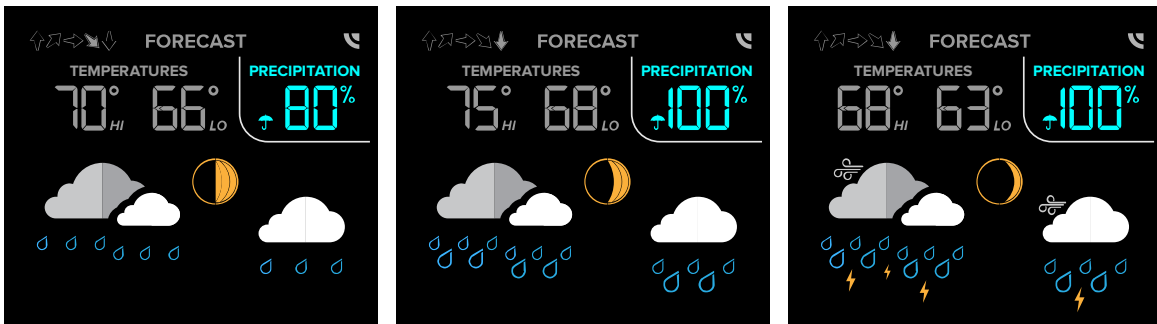**Additional forecast icons when connected:**
- Windy
- Light Rain
- Severe T-Storm
- Light Snow
- Wintry Mix
- Blizzard
- Ice
- Fog

The Internet Indicator will be shown in the Forecast area.

Day Forecast Connected Example:

Night Forecast Connected Example:

IMPORTANT:
There may be small discrepancies between data displayed on your station and data shown through other AccuWeather services, such as their website and/or mobile app. This is common, as there are differences in the timing in which forecast data is fetched by these items. Our connected weather stations will receive forecast updates at least four times daily.

ACCUWEATHER HOURLY & DAILY FORECAST

- Press and release the FORECAST button to view 12 HOURLY forecasts and 7 DAILY forecasts.
- Hold 2 seconds to scroll through all 12 HOURLY forecasts and 7 DAILY forecasts. Each forecast will show for 2 seconds.
- **Lost connection to weather service:** Press and release button and station will say WAIT FOR WEATHER
- **Not Connected:** Press and release button and station will say CONNECT TO WI-FI.
- **While Scrolling:** Press and release to stop scrolling and return to normal display.
- The Internet Indicator will show in the Forecast areas. 🅖

FORECAST TREND ARROWS

The Forecast Trend Arrows will always be outlined. The active icon will be full.

	Rapid increase in Pressure	**Pressure** is rising more than two hPa in the past 3 hours
	Slow increase in Pressure	**Pressure** is rising one hPa to two hPa in the past 3 hours
	Steady Pressure,	**Pressure** range varies from -1 hPa to +1 hPa in the past 3 hours
	Slow decrease in Pressure	**Pressure** is falling one hPa to two hPa in the past 3 hours
	Rapid decrease in Pressure	**Pressure** is falling more than two hPa in the past 3 hours

ACCUWEATHER HI/LO TEMPERATURES

- The High and Low Temperature will come from the server when connected (🔗).Or from the TH sensor when not connected.
- **Percent (chance) of Precipitation** will come from the server and only show when connected.

CUSTOM DATA STREAMS

When connected you can customize the Data Stream with Text Messages or AccuWeather information.

AccuWeather Information:
Wind Speed • Wind Direction • Wind Gust • UV Index • Percentage of Clouds •Sunrise Time • Sunset Time • Snow Accumulation • Moon Rise Time • Moon Set Time • Probability of T-Storms, Tornado, or Hail • Mold Risk • Air Quality and more!

Text Messages
Enter up to twenty characters for special events or reminders, such as:
• SOCCER TONIGHT • ICE CREAM IN FREEZER • GREAT JOB MATH TEST or anything you can
   think of!

To select Data Stream items:
1. Open the La Crosse View™ app and swipe until you find your station's device page.
2. Scroll down to the Data Stream section and press the blue stream icon in the upper right.
3. Follow the app's instructions to customize your "Data Stream" to display on your station

Note: Allow up to 10 minutes for new Data Stream selections to appear on your station.

WHY DOES "LOST WIFI," ETC., SHOW ON MY STATION?

When operating as a **standalone** station, you will occasionally see the words SEE APP TO CONNECT or LOST WIFI.

- SEE APP TO CONNECT appears at start up is a prompt to connect to the La Crosse View™ app.
- LOST WIFI again refers to your station searching for a WIFI connection to connect to the La Crosse View™ app. Your station has found a Wi-Fi service and is awaiting a password.
- These statements should only flash for a few minutes then disappear.
- They may show again for a few minutes if you restart the station or press and release the SET button.

When **connected** you will have these and other status messages available with the press of the SET button.

ALL OK CONNECTED:
o The station is connected all the way through to your app.

LOST WIFI:
o Check your five volt power cord connection (power cord required to connect)
o When trying to reestablish your station's Wi-Fi connection, be sure your mobile device is on the same 2.4GHz network you want your station to use.
o Enter your Wi-Fi password again.
o Check your network connection.
o Hold the SET and + buttons together for 3 seconds to search for Wi-Fi.

NO WEATHER SERVICE:
o Wi-Fi, and App are fine.
o Weather/Time service not connecting. This will be resolved at the Weather Server. Please be patient.
o Weather Forecast, Precipitation and Weather HI/LO temperature will not be displayed.

Note: If connection to app is lost: The last readings from the Internet will remain for up to 3 hours to allow connection to reestablish on its own.

TROUBLESHOOTING

BAR CODE: WHAT ARE THE BARCODES AND ID NUMBERS ON MY SENSORS ON MY STATION?

- Did you know that your sensors will "lock" into your station?
- This ensures that the sensor readings are from your sensor and not a neighbors.'
- These sensors will remain locked to your station until you manually delete them.
- The barcodes are important identifiers for the La Crosse View™ app if you choose to connect.

HOW DO I DELETE SENSOR ID NUMBERS?

In the rare event you need to replace your sensor, you will first need to delete the old sensor ID from your station.

1. Remove batteries from your old sensor.
2. Press and release the EXTRA SENSOR button to view your sensor ID number.
3. While viewing your sensor ID, hold the (-) button for 5 seconds to delete your old sensor ID. Dashes will show the ID number.

4. Your station will automatically begin searching for the new sensor.
5. Install batteries in your new sensor and allow up to three minutes for your new sensor. readings and ID to appear on your station.

FACTORY RESET: HOW DO I FACTORY RESET MY STATION?

- A factory reset will delete all sensor ID numbers and if connected, remove all Wi-Fi connections.
- This is a terrific way to return your station to "out of the box" condition.
- This is more effective than removing all power for clearing out the station.
- All history records will be removed, so write down anything you want to keep.

To factory reset your station:
1. Hold the LIGHT and ALERTS buttons together for 5 seconds.
2. When your station resets it will look for all sensors. Allow at least ten minutes to reacquire the sensors.
Note: If operating connected, you would need to reconnect to Wi-Fi from the app.

CAN I USE MY EXISTING SENSORS WITH THE V23 STATION?

If you own a different La Crosse Technology connected weather station, there is a good chance this display can show data from your existing sensors. The V23 station can display data for the following sensor models:

Wind: LTV-WSDR1, LTV-WSDTH01, LTV-WSDTH03, LTV-WSDTH04, LTV-W1, LTV-W2, LTV-W3
Rain: LTV-R3, LTV-R3V2
Temperature/Humidity: LTV-TH1, LTV-TH2, LTV-TH2i, LTV-TH5i, LTV-TH6i

When first setting up your V23 weather station, it is recommended to only install batteries into the sensors you would like displayed on the LCD. After data has loaded into the display's various sections, you are free to then install batteries into any extra sensors.

The next section will help with removing and adding different sensor combinations

HOW DO I CHANGE WHICH SENSORS ARE DISPLAYED ON THE LCD?

The V23 weather station will typically be packaged with our LTV-W3 Glide (Wind Speed) and LTV-TH2i (Thermo-hygro) sensors. In the event you would like to change the data on the LCD to come from a different sensor, please use the following steps.

1. **Remove the batteries from the sensor(s) you no longer wish to show on the display** and install a new set of batteries into the sensors you would like to use.

2. Press and release the EXTRA SENSOR button to view the different sensors currently synchronized with your display. Each sensor's Device ID (located on its own white sticker, commonly found near or in its battery compartment) should appear in the lower section on the LCD.
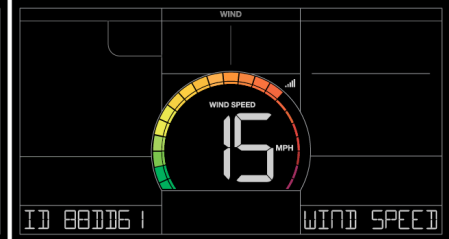
Station ID
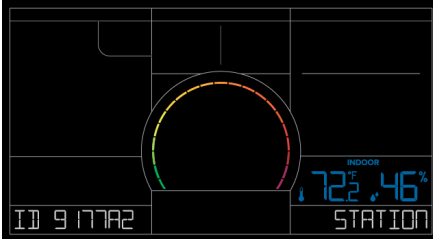


Thermo-hygro Sensor

Glide Sensor

3. While viewing the ID for the sensor you wish to delete, hold down the MINUS (-) button until dashes appear. This will remove the sensor from the display and have it immediately begin searching for a new compatible sensor connection.

4. If your replacement sensor is not connecting right away it may help to hold down the WIND, or TEMP button respectively until the Reception Icon begins to animate to search for that sensor's signal. Having the sensor close by can always help speed this along.

Example 1: Replace the Glide and TH sensor with a Breeze Pro sensor (Wind Speed, Direction, Temp/Humidity).

With Breeze Sensor: Wind Speed, Wind Direction, Temp and Humidity all come from the Breeze sensor. The Breeze Icon will show next to the Wind and the Outdoor headers.
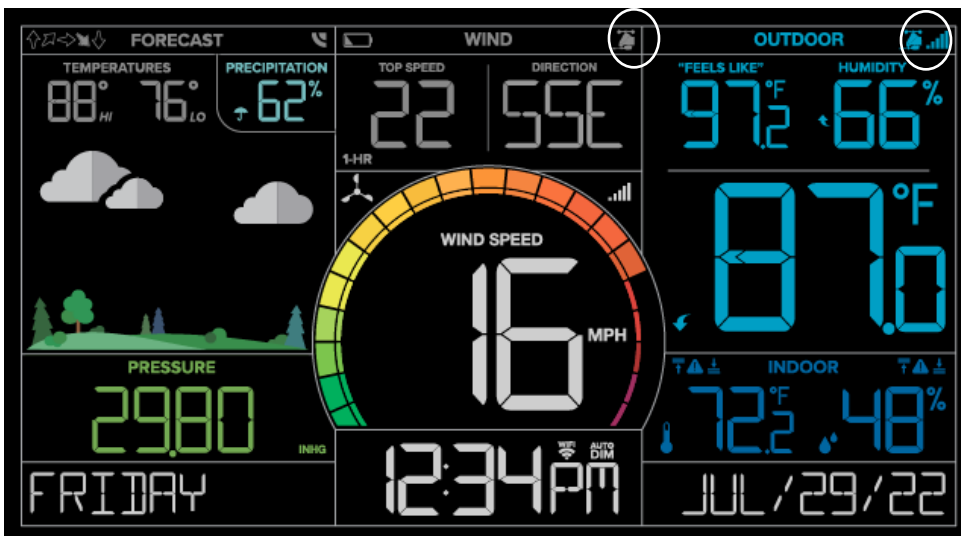
Example 2: Replace the Glide sensor with a Cyclone Pro sensor.

With Cyclone Pro Sensor: Wind Speed, Wind Direction, show in the Wind area of the station. The Rain shows in the Extra Sensor area. The Cyclone Icon 🚜 will indicate where the reading is coming from. LTV-TH sensor is included.

Note: If there is already an LTV-R3 reading to the Extra Sensor area, the Cyclone sensor cannot show the Rain there. If customer wants Rain from the Cyclone sensor, the LTV-R3 sensor must be deleted. And it is helpful to remove the remove the batteries from the rain sensor until the Cyclone sensor is connected. 🚜
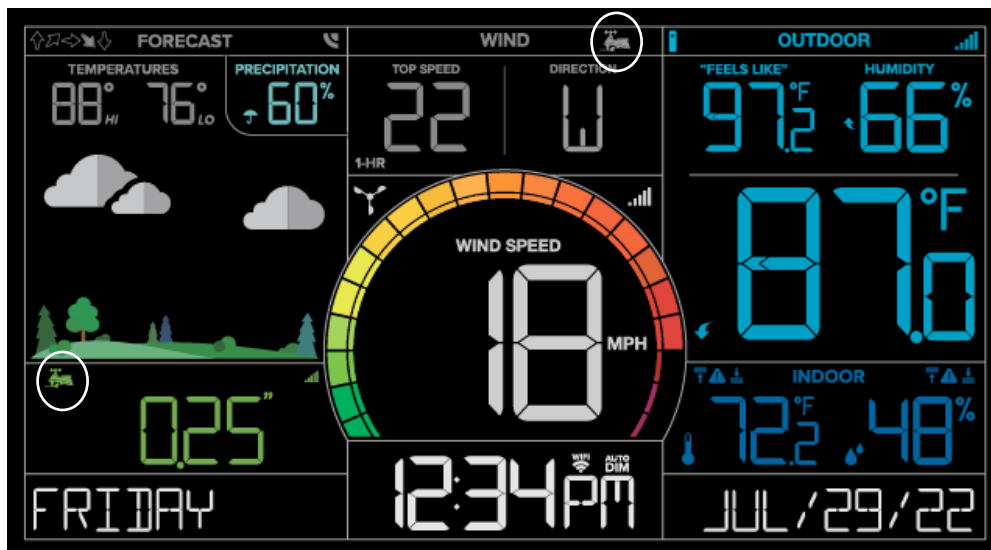
HOW CAN I ADD SENSORS TO MY APP?

Add Sensors to Your La Crosse View App:

Watch our video: http://bit.ly/add_devices

1. From the Main Menu - select "Devices" under "Add/Edit"
2. On the Edit Devices page - select "ADD DEVICE" or the blue "+" button at the bottom.
3. Scan or manually type in your sensor's Device ID (located on the white sticker, commonly found near or in the sensor's battery compartment). Then press "CONTINUE".
4. On Confirm Device page - Confirm the sensor image and ID match your sensor and select "YES"
5. Enter in a Device Name and Location Name for this sensor. Then select "DONE"

Repeat these steps for any additional sensors you wish to add.