

## V21V4 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

### BATTERIES: WHAT DO I NEED TO KNOW ABOUT BATTERIES?

- Good fresh batteries are important for best performance in your sensors and as backup in your station.
- Batteries with an expiration date of 2030, were manufactured in 2020.
- We recommend batteries with an expiration date no more than 6 years in advance of the current year for best performance.
- A minimum voltage of 1.48 v per battery is required for the best performance.
- Lithium batteries may be used in outdoor sensors. Alkaline batteries for the station.

### HARDWARE: SENSORS AND STATION

**Your V21V4 station comes with:**

**LTV-W2** Wind Speed sensor.

**LTV-TH2i** Thermo-hydro sensor that reads Temperature and Humidity.

All sensors operate at 915MHz RF.

## WHAT ARE THE POWER REQUIREMENTS FOR THIS STATION?

**LTV-W2:** 2-C batteries

**LTV-TH2i:** 2-AA batteries

**V21V4:** 5 volt power cord (required) and 3-AA batteries for optional backup of your time and date. Battery operation only will not update sensor or Wi-Fi data. Power cord is required.

## SETUP: WHAT ARE MY SETUP OPTIONS?

**Your station is a fully functional standalone station.**

1. Install batteries into each sensor (any order).
2. Install power cord into wall outlet, and into the station. Install batteries in the station if you wish.
3. Let sensors and station sit within 10 feet of each other for several minutes to lock the sensor signals to the display.

Once the sensors are 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. Click [here](#) for instructions for connecting your station to the La Crosse View™ app.

## MOUNTING: WHERE DO I MOUNT/POSITION MY SENSORS?

All your sensors read independently to your station. This provides freedom to position each sensor in the best location available.

### **LTV-W2:**

- Place your wind sensor two times higher than any large object within 50 feet. Wind does not pass through hard objects; it is distorted by them. If your sensor is too close you will measure the air turbulence and not actual wind speed.
- Place away from trees. Wind passing through trees moves slower than wind in open areas.
- Mount your sensor in a vertical position with the wind cups on top.
- The maximum transmission distance from your multi-sensor to your station, in open air, is 400 feet (121.92meters).
- Use the included mounting bracket or your own mounting pole (no more than 1 inch outer diameter to fit). Secure the sensor with screws provided. Tighten the screws to snug (do not over tighten).

### **LTV-TH2i:**

- Place your thermo-hygro sensor at least 6 feet off the ground.
- For accurate temperature readings your sensor needs to be shaded from the sun in a well vented area.
- Mount your sensor vertically to allow moisture to drain out the bottom.
- The preferred location is on a north facing wall under an eave or deck rail.
- Avoid placing it near a metal roof that will cause it to read high on sunny days.
- Avoid other sources of heat such as soffit vents, and window or door frames.

- For accurate humidity readings, avoid placement near vegetation and lakes or other bodies of water when possible.
- Place your sensor in a well-vented area. Trapped moisture will cause inaccurate readings.
- Maximum transmission distance from your thermos-hygro sensor to your station, in open air, is 400 feet (121.92 meters).
- Insert the mounting screw through the front of the transmitter and into the wall. Tighten the screw to snug (do not over tighten).

## WHERE TO I PLACE MY STATION?

Your station is designed for flexible placement on a desk or countertop, or to position on the wall.

- 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 the 5 volt power cord in order 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 your 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.

## BUTTONS AND FUNCTIONS

There are 9 function buttons on this weather station.

In order:

**ALERTS | WIND | TEMP | + (PLUS) | - (MINUS) | SET | SENSOR | LIGHT | WIFI (on back)**

### 1. ALERTS button

#### Normal Time Display-

- Hold the ALERTS button for 2 seconds to enter alert set mode.

#### Alerts Mode-

- Press to confirm & move to the next alert.

#### Factory Reset-

- Hold ALERTS and LIGHT button together for 5 seconds to reset station to factory default and clear all sensor ID's, and WiFi connections.

### 2. WIND button

#### Normal Display-

- Press and release to view top wind speed with time and date stamp:

**Note:** All other readings will disappear for 5 seconds. After 10 seconds with no button press, the station will return to normal display with 1HR Top Speed.

#### Wind Mode-

- Hold the MINUS button for 5 seconds to delete individual wind readings.

### 3. TEMP button

#### Normal Time Display-

From normal display, press and release the **TEMP** button to view indoor and outdoor HI | LO temperature/humidity and Feels Like records.

**Note:** All other readings will disappear for 5 seconds. After 10 seconds with no button press, the station will return to normal display.

#### Temp Mode-

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

### 4. +(PLUS) Button:

#### Setting Mode-

- Press to increase the values by one.
- Hold 2 seconds to quickly adjust values.

**SoftAp:**

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

**5. – (MINUS) Button:****Setting-**

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

**Sensor Mode (viewing sensor ID's)-**

- Hold 5 seconds to delete sensor ID

**Wind, Temp Mode-**

Hold 5 seconds to delete individual records when viewed.

**WPS:**

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

**5. 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
  - LOST WIFI
  - 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.

**6. SENSOR button****Normal Time Display-**

- Press and release view station ID and sensor IDs in parked position designated on weather station. First ID is for weather station (indoor temp/humidity), second is for temp/humidity sensor, and third is for wind sensor.
- If there is no sensor ID in the weather station, this will start a sensor search.
- HOLD 3 seconds to search for all sensors.

**Sensor Mode (viewing sensor ID):**

- Hold the MINUS button for 5 seconds to delete the sensor and ID.

**7. LIGHT button:****Normal Time Display-**

- Press to change the LCD backlight brightness (5 levels)
- Press this button to open backlight for 10 seconds.(without adaptor)

### **Setting Modes-**

- Press to exit any setting mode.

### **Factory Reset-**

- Hold ALERTS and LIGHT button together for 5 seconds to reset station to factory default and clear all sensor ID's, and WiFi connections.

## **7. WIFI button**

- **Press**- Sounds beep and Initiates SoftAP mode.
- **Hold for 10 seconds**- Sounds beep and deletes current SSID and Password. Then initiates SoftAP provisioning mode. After the 1 hour timeout the unit will no longer sign into the last known SSID and Password.

### **READINGS: HOW DO I INTERPRET THE CURRENT WIND READINGS?**

- **Wind Speed** - is the highest current wind speed at the last record.
- **Top Speed** – is the highest wind speed reading in the past hour.

**Standalone station:** When not connected you will see the 24HR wind speed next to the 1HR wind speed.

**Connected Station:** When station is synced to the La Crosse View™ App, the 24HR wind speed will forecast Wind Direction.

### **HOW DO I INTERPRET THE WIND HISTORY READINGS?**

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.

Press and release the WIND button to toggle through the Wind Speed History times.

- **One Hour** - Past 60 minute period (default Top Speed record, always shown)
- **24 Hour** – 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.
- **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. 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 15<sup>th</sup> of the month, the top speed is from the 1<sup>st</sup> to the 14<sup>th</sup>. After midnight, the 15<sup>th</sup> will be included.
- **Note:** Press and release the PLUS button to view up to 11 previous months.
- **Year** – Shows top wind speed for the current year. January 1, through December 31<sup>st</sup>.

### **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 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 generally 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.

## WHERE DOES THE HI | LO READING NEXT TO THE FEELS LIKE TEMPERATURE COME FROM?

Your station provides a daily HI | LO temperature reading, as well as the historical records with time and date stamp listed above. This is shown continually on your station. No button press is necessary.

- **Standalone station:** The daily HI | LO temperature comes from your thermo-hygro sensor when you operate as a standalone station.
- **Connected to the La Crosse View™ app:** When you connect to the La Crosse View™ app. The daily HI | LO reading will come from AccuWeather, as a forecasted HI and LO.

## HOW DO I SET ALERTS?

Programmable Temperature and Humidity alerts keep you on top of changing conditions.

### **Alert Setting Order:**

- Outdoor LOW Temperature
- Outdoor HIGH Temperature
- Outdoor LOW Humidity
- Outdoor HIGH Humidity
- Indoor LOW Temperature
- Indoor HIGH Temperature
- Indoor LOW Humidity
- Indoor HIGH Humidity

### **To set alerts:**

1. Hold the ALERTS button to enter alert set mode
2. Outdoor LOW temperature alert OFF will show.
3. If you wish to set this alert value, press the + or – buttons to arm this alert (ON).
4. When the alert is armed (ON) press and release the ALERTS button and the alert value will flash.
5. Press the + or – buttons to change the alert value.
6. Press the ALERTS button to confirm and move to the next alert.
7. If you do not wish to set an alert, press the ALERTS button again to move to the next alert.
8. (When the alert is OFF (disarmed) press ALERTS button to skip setting that alert value).

**Note:** Press the LIGHT button at any time to exit.

## HOW DO I DISARM ALERTS?

1. Hold the ALERTS button for 3 seconds to enter alert set mode.
2. Press and release the ALERTS button until you see the alert you wish to disarm.
3. Press the +/- buttons to disarm the alert. The alert text goes from ON to OFF.
4. Press the LIGHT button to exit.

## WHAT HAPPENS WHEN AN ALERT SOUNDS?

- When armed alert value is reached, the station will beep 5 times each minute, until out of alert range.
- The flashing alert icon will indicate the type of alert HI or LO.
- Press any button to stop the alert from sounding.
- The alert icon will continue flashing while the alert value is in alert range.
- Disarm the alert to stop the alert entirely.

## TIME: DOES THIS STATION 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 will update from the Internet.

## 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 3 seconds to enter the settings menu.
2. Press and release the + or - buttons to adjust the flashing values. Hold to adjust quickly.
3. Press and release the SET button to confirm and move to the next item.

**Note:** Press and release the LIGHT button any time to exit settings

**Settings order:**

- Beep ON/OFF
- 12HR/24HR
- Hour
- Minute
- Year
- Month
- Date

- Month/Date or Date/Month
- Fahrenheit/Celsius
- Wind Speed MPH or KMH

### Settings Menu

1. Hold the SET button for 2 seconds to enter setting mode. **BEEP ON** will show. Press the + or - button to turn the beep sound OFF. Press the SET button to move to 12/24 hour time.
2. **12/24 FORMAT** will show. 12HR flashes. Press the + or - button to turn select 24 hour time format.
3. Press SET to confirm and move to the hour. **HOUR** will show. The hour flashes. Press the + or - button to choose the hour.
4. Press SET to confirm and move to the minutes. **MINUTES** will show. Minutes flash. Press the + or - button to choose the minutes.
5. Press SET to confirm and move to the year. The **YEAR 2022** will show. Year will flash. Press the + or - button to change the year.
6. Press SET to confirm and move to the month. The **MONTH** will show. The Month will flash. Press the + or - button to change the month.
7. Press SET to confirm and move to the date. **DATE** will show. Date will flash. Press the + or - button to change the date.
8. Press SET to confirm and move to the temperature unit. **FAHRENHEIT** will show. Press the + or - button if you prefer Celsius.
9. Press SET to confirm and move to wind units. **WIND SPEED** will show. **MPH** will flash. Press the + or - button to select KMH.

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

### WHY DO “SEE APP TO CONNECT” OR “LOST WIFI” 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 is a prompt to connect to the La Crosse View™ app. This is not required.
- LOST WIFI again refers to your station searching for a WIFI connection to connect to the La Crosse View™ app. This is not required.
- 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. These are described under below when talking about [connected status messages](#).

### BACKLIGHT: DOES THIS STATION HAVE A BACKLIGHT?

Yes, your station has a backlight with 5 levels of intensity. Power cord use is required for this station to receive updates from the sensors.

- Press and release the LIGHT button to adjust the backlight intensity or to turn it off.
- Intensity levels: 0% (OFF) | 3% | 20% | 50% | 100%

## CAN I OPERATE MY STATION ON BATTERY POWER ONLY?

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

## BATTERY: WHAT DO THE BATTERY ICONS MEAN?

- A battery icon will appear near your WIND reading when you need to change [batteries](#) in your wind sensor.
- A battery icon will appear near your OUTDOOR temperature reading when you need to change batteries in your thermo-hygro sensor.
- See how to [change batteries](#) under troubleshooting.

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

- 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 to the [program menu](#) and check the YEAR setting.

## DOES THIS STATION HAVE 12 HOUR AND 24 HOUR TIME OPTIONS?

- Yes, you can select 12 hour or 24 hour time format in the [program menu](#).

## WHY DOES THE STATION SHOW DIFFERENT COLOR TREES?

The trees and foliage color will change seasonally to provide variety to your station. Programmed dates in the station tell the trees when to change automatically.

**Spring:** March 20th – Jun 20th



**Summer:** Jun 21st – Sep 20th



**Autumn:** Sep 21st – Dec 20th



**Winter:** Dec 21st – Mar 19th



## FORECAST ICONS: WHAT DO THE FORECAST ICONS MEAN?

**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.
- **IMPORTANT:** 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 forecast icon from AccuWeather. Your forecast will update multiple times per day. The forecast icons predict weather conditions for the next 3-6 hours.

### Additional forecast icons when connected:

- Windy
- Light Rain
- Severe T-Storm
- Light Snow
- Wintry Mix
- Blizzard
- Ice
- Fog

1. Your weather station checks with the weather service eight times per day.
2. Different stations may show different aspects of the weather based on when they update.

**Note:** AccuWeather can update their website at any time.

- **Weather Forecast Icons (Sun, Rain, etc.):** Predicting weather in the next 3-6 hours.
- **Chance of Precipitation:** Forecast for 12 hour period
- **HI | LO Temperature:** Forecast of daytime maximum temperature and overnight minimum temperature.

**Data Stream items:**

- **Probability of Hail:** Chance of Hail within 25 miles.
- **Probability of Damaging Thunderstorms:** Chance of Thunderstorms within 25 miles.
- **Probability of Tornado:** Chance of Thunderstorms within 25 miles.
- **Sky Cover:** Cloud cover percentage for the current hour.
- **Snow Accumulation:** Expected accumulation of new snow in a 6 hour period
- **Wind Direction:** Forecasted sustained wind direction for the indicated hour
- **Wind Speed:** Forecasted sustained wind speed for the indicated hour.
- **Wind Gust:** Maximum 3-second wind speed (in knots) forecast to occur within a 2-minute interval. Wind gust forecasts are valid at the top of the indicated hour.

Many more Data Stream options.

**Note:** All weather reporting stations wind sensors are at a height of 32.8 feet (10 meters).

## TROUBLESHOOTING

### HOW DO I CHANGE BATTERIES IN MY SENSORS WITHOUT LOSING DATA?

We designed this station for convenience, so that a simple change of batteries does not lose data or require you to power down your station.

- If you have a low battery icon on your station, you need to replace the batteries in the sensor or in the station as indicated.
- Simply install fresh [batteries](#) into your sensor then hold the SENSOR button for 3 seconds and your station will search for your sensors.
- When changing the batteries in the station, continue using the power cord. After replacing the batteries, no other action is needed. The batteries in the station only maintain time/date in the event of a power outage.

### BAR CODE: WHAT ARE THE BARCODES AND ID NUMBERS ON MY SENSORS AND 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’.
- When you press and release your SENSOR button you will see your station ID, your thermo-hygro sensor ID, and your wind speed sensor ID.

- The sensor ID on the station should match your first six numbers on the barcode of that sensor.
- These sensors will remain locked in your station until you manually delete them.
- The barcodes are also 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 SENSOR button to view your sensor ID number.
3. While viewing your sensor ID, hold the MINUS 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.
- Basically, this is a great 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 ALERTS and LIGHT 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. Click [here](#) for details.

## DASHES TEMP/HUMIDITY: WHY DOES MY THERMO-HYGRO SENSOR SHOW DASHES ON THE STATION?

Dashes indicate the connection is lost between your station and the outdoor 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 likely 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.
- When you have good batteries, and in a good location, press the SENSOR button for three seconds to search for your sensors. If you regain connection while the sensor is mounted, great. If you do not regain connection, bring the sensor within 10 feet of the station and search again.

### WHY DON'T MY TEMPERATURE/HUMIDITY READINGS ON MY STATION MATCH THE WEATHER REPORT?

- Your temperature and humidity readings are from your sensor at your location. Your local reporting station can be miles away so readings will differ.

### TEMP ACCURACY: WHY DOES MY THERMO-HYGRO SENSOR READ INACCURATELY?

- The thermo-hygro sensor reads the environment. If your sensor reads high during the day but not at night it is a [mounting](#) problem.
- **Side-by-side test:** Bring the thermo-hygro sensor in the house and place it next to your station for 2 hours.
- Compare indoor and outdoor temperature. The temperatures should be within 4 degrees to be within tolerance. The humidity should be within 14% to be within tolerance.
- If the sensor reads correctly when next to your station then try a different location outside.
- Look for heat sources such as sunlight, door, or window frames, or reflected heat that may cause inaccurate readings.
- Press and release the SENSOR button to view the thermos-hygro sensor ID number. Compare the barcode on your sensor to be sure they match.
- If your temperature is reading low, and location is not an issue, you may have a bad sensor.

### 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.

### TEMP INTERMITTANT: WHY DOES MY TEMP/HUMIDITY READING COME AND GO?

- RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister 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).

**If a miss happens:**

- If the 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 sensor.
- Be sure you have good [batteries](#). Manually search for your sensor by holding the SENSOR button for three seconds.

**Try this:**

- Bring your sensor within 10 feet of your station and make sure it is connected to the station.
- After 15 minutes move the 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 sensor just outside.
- Continue moving the sensor back to its original location.
- If you lose connection, look for sources of [interference](#).

## WHY AM I GOING THROUGH BATTERIES QUICKLY?

- Test a new set of [batteries](#). Write down the date of installation and the voltage of the batteries.
- When the batteries fail, please note the date and voltage again. This is helpful in determining the problem.
- Check for leaking batteries, which may damage the sensor.

## HOW DO I CHANGE BETWEEN FAHRENHEIT AND CELSIUS?

- On your sensor, open the battery cover and press 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 in order 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.

## CAN I REPLACE MY WIND CUPS?

Occasionally, a bad storm with hail or debris that will damage your wind cups. These are easily replaced.

### Replace wind cups:

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

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

## 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 DASHES: WHY ARE THERE DASHES FOR WIND READINGS?

Dashes indicate 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 likely 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.
- When you have good batteries, and in a good location, hold the SENSOR button for three seconds to search for your sensors. If you regain connection while the sensor is mounted, great. If you do not regain connection, bring the sensor within 10 feet of the station and search again.

## WIND INTERMITTANT: WHY DO MY WIND READINGS COME AND GO?

- RF (radio frequency) communication may come and go occasionally. This can be normal in some environments (e.g. moister 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).

**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.
- Be sure you have good batteries. Manually search for your sensor.

**Try this:**

- Bring your wind sensor within 10 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 6 feet or more above the highest point on the roof in order 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.

## GET CONNECTED: YOUR LA CROSSE VIEW™ APP

Enjoy the added benefits of on-the-go monitoring when you are connected via your mobile device. For support and guidance of your La Crosse View™ app, please visit:

- Android users: <http://www.lacrossetechnology.com/support/lacrosseviewandroid>
- iOS users: <http://www.lacrossetechnology.com/support/lacrosseviewios>

## WHERE DO I FIND THE LA CROSSE VIEW™ APP?



- Visit the App Store or Google Play Store to download the free La Crosse View™ app on your mobile device.



## HOW DO I CONNECT?

Confirm that your mobile device is connected to a 2.4 GHz Wi-Fi Network before you connect to your station. Some routers have 5.0GHZ for media streaming and 2.4GHZ for everything else.

- All Wi-Fi routers have a 2.4 GHz band.
- Newer routers are often multi-band routers with both 2.4 GHz and 5 GHz bands.

For more information on routers please visit: [https://www.lacrossetechnology.com/router\\_info](https://www.lacrossetechnology.com/router_info)

### Check your station:

- When connecting to the app, ensure the Wi-Fi Indicator icon is blinking.
  - Solid: Indicates that you are connected to Wi-Fi.
  - Flashing: Searching for Wi-Fi Network
  - Not displayed: Not Connected
- If it is not blinking, perform a Wi-Fi search by pressing & holding the + & - buttons together.

**Note:** Station power cord use is required. Battery operation only will not update sensor or Wi-Fi data to the station.

### Launch the app:

- Open the app on your iOS or Android device.

### Follow instructions in the app:

- Your La Crosse View™ app will walk you through creating an account and connecting your station to the Internet. Once connected, your time, date, and local forecast information will update instantly on your station's screen.

## WHAT ARE THE REQUIREMENTS TO CONNECT?

The La Crosse View™ app is compatible with both iOS and Android mobile devices. Before connecting, be sure to check a few things:

- Confirm that your mobile device is connected to a 2.4GHz (802.11 b/g/n) Wi-Fi band before trying to connect your station to the La Crosse View™ app. The station itself cannot accept the 5GHz Wi-Fi bands that most dual-band routers offer.
- Station power cord use is required for Wi-Fi connection.

- **IOS Requirements:** Mobile device with iOS 9.0 (or higher) with cellular or Wi-Fi service
- **Android Requirements:** Mobile device with Android OS 5 (or higher) with cellular or Wi-Fi service

**Note:** You cannot use the app on a laptop or desktop computer.

**Tips:**

- Do not use public Wi-Fi networks.
- Your station and mobile device must be within 10 feet of each other during setup.
- Hold the PLUS and MINUS buttons together for 3 seconds to have your station search for your Wi-Fi.
- If you have connection issues, hold the ALERT and LIGHT buttons together for 5 seconds to complete a [factory restart](#).

## WHAT ARE THE BENEFITS OF USING AN APP?

- Monitor your backyard weather from anywhere with an Internet connection.
- Set alerts, view graphs, share your home's weather data with family and friends who have a free La Crosse View™ app account.
- Personalize your app with your own photos and receive push notifications.
- Expanded forecast icons from the AccuWeather
- Internet Wind Direction.
- New Data Stream Technology allows you to stream up to three items to your station.
  - AccuWeather selectable forecasts: Wind, Snow, Thunderstorms, Hail, Sky Cover and more.
  - Personal Message: up to 20 characters for special events or reminders.
- Add an extra sensor that will read to your app.

## MESSAGES: WHAT IS THE MEANING OF THESE MESSAGES ON MY STATION?

Your station has built in connection status messages for your convenience.

**“ALL OK CONNECTED”** - Your station is connected to the app.

**“LOST WIFI”** – Your station has lost connection with your Wi-Fi network.

- Check your power cord connection (power cord required to connect).
- 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.
- Check your network connection.
- Hold the + and - buttons together for 3 seconds to search for Wi-Fi.
- Go into the La Crosse View™ app, select your station, and then choose “Connect Wi-Fi” from the app menu. Reenter your Wi-Fi network's login information.

**“SEE APP TO CONNECT”** – Your station has lost connection with your app.

- The Wi-Fi router connection is working.

- Check your connection to the La Crosse View™ app. Select your station, and then choose “Connect Wi-Fi” from the app menu. Reenter your Wi-Fi network’s login information.
- Is there an update to install?

**“NO WEATHER SERVICE”** - This indicates an error on the weather server. There is nothing you can do about this.

### CAN I MOVE MY STATION TO A NEW HOUSE?

- Yes, it is very easy to move your station to a new location. You will simply need to connect to the new Wi-Fi.
- If you change your Wi-Fi network, simply go into the La Crosse View™ app, select your station, and then choose “Connect Wi-Fi” from the app menu. Here, you will just need to enter your new Wi-Fi network’s login information.

**Note:** If switching to a new Wi-Fi network, your station may take up to 3 minutes to reacquire all sensor information.

### WHY CAN’T I SEE MY OUTDOOR SENSORS IN THE APP?

Currently after you connect your weather station into the app, you will need to scan the bar code on your sensor(s) to connect them as well.

1. Scan the bar code on the sensor (or carefully enter the number manually)
2. Confirm your sensor image and ID number.
3. Name the sensors and provide location.
4. Enjoy! Allow a few minutes for readings to appear.

### ADD SENSOR: HOW CAN I ADD SENSOR TO MY LA CROSSE VIEW™ APP?

Check for compatible sensor to purchase at [www.lacrossetechnology.com/V21V4](http://www.lacrossetechnology.com/V21V4)

**Note:** The number of sensors you can add will be limited by the memory of your mobile device and the speed of your Wi-Fi network connection.

#### Open your La Crosse View™ app to add sensor.

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 the Enter Device and Location Names page - enter Device Name and select a location or enter a Location Name for your sensor. Select “DONE.”
- Repeat steps 1-5 for any additional sensor you wish to add.
- Allow a few minutes for the new sensor to report to the app.

## CAN I CONNECT THIS STATION TO WEATHER UNDERGROUND?

- Unfortunately, no, the La Crosse View app and this weather station are incompatible with Weather Underground.
- However, we invite you to try the easy-to-use sharing features found in La Crosse View. Share device data with the touch of a button, use the links below to learn how.
  - Android users: <http://www.lacrossetechnology.com/support/lacrosseviewandroid>
  - iOS users: <http://www.lacrossetechnology.com/support/lacrosseviewios>
- Our focus moving forward will be on our own La Crosse View app, as we can make custom updates to best suit our customers' needs. So, if you have ideas for changes you would like to see, please just let us know, your opinion truly matters to us.

