## V22-WRTHV2 FAQS

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

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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 2020, were manufactured in 2010.
- 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 best performance.
- Lithium batteries may be used in outdoor sensors. Alkaline batteries for the station.

### HARDWARE: SENSORS AND STATION

### Your V22-WRTHV2 station comes with:

LTV-W1 Wind Speed sensor.

LTV-R3 Rain sensor

LTV-TH2 Thermo-hygro sensor that reads Temperature and Humidity.

All sensors operate at 915MHz RF.

### WHAT ARE THE POWER REQUIREMENTS FOR THIS STATION?

LTV-W1: 2-C batteries LTV-R3: 2-AA batteries LTV-TH2: 2-AA batteries

V22-WRTHV2: 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.

### POWER INPUT: WILL THIS STATION WORK IN OTHER COUNTRIES??

• Your power cord input is 100-240V 0.3A 50/60Hz, and may work in other countries if the proper plug adapter is used (not included).

Note: There is no guarantee that this power cord will work in other countries.

- As a standalone station-, you can use this anywhere.
- Weather information will be based on zip code, or city selected.

## SETUP: HOW DO I SETUP MY STATION?

## 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 into 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<sup> $\mathrm{M}$ </sup> app or continue to use as a standalone station. You can always connect later if you choose. Click <u>here</u> for instructions for connecting your station to the La Crosse View<sup> $\mathrm{M}$ </sup> app.

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

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

### LTV-W1:

- 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.
- 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 to the sensor with screws provided. Tighten the screws to snug (do not over tighten).

### LTV-R3:

- Mount your rain sensor in an open area for a more accurate rain count.
- Placing the rain sensor on the ground provides the most accurate rainfall measurement as there is no wind shear. Unfortunately, since insects think of rain gauges as personal hotels, placing the sensor 3-6 feet above ground may deter the insects.
- Be sure your rain sensor is not sitting in a depression that would prevent rain from draining form the sensor properly.
- Your rain sensor should be accessible to allow for periodic cleaning of leaves or other debris that may clog the funnel.
- Install the Rain sensor on a level platform that is stationary and has a direct line of sight to your station.
- Insert three mounting screws through the holes in the base of the rain sensor. Do not over tighten.
- Avoid other wireless rain sensors, as this can cause inaccuracy.

• The maximum wireless transmission range to the rain station is over 400 feet (121 meters) in open air, not including walls or floors.

### LTV-TH2:

- 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.
- Preferred location is on a north facing wall under an eave or deck rail.
- Avoid placing 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 (121.92meters).
- 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.
- 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.

### 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.
- · Blue circle
  - o **Standalone station:** When operating as a standalone station, the blue circle will remain solid.
  - o Connected to the La Crosse View™ app: Your blue circle will forecast Weather Service 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.

- 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.
- **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 31st.

### 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 INTERPRET THE RAIN READINGS?

You have the option to have the rainfall timeframe you prefer, to be shown on the station all the time. Simply press and release the RAIN button to select:

- NOW Shows rainfall for the current rain event. Starts recording when rain begins and stops recording when there has been no additional rainfall for 30 minutes. After 30 minutes this reading reset to zero.
- 1 Hour Shows rainfall in the past 60 minutes. This is a rolling value for the past 60 minutes and not a set time. As time passes without rain, this values will count down to zero.
- 24 Hours Shows rainfall in the past 24 hours as a rolling value that updates every hour to show the past 24 hours. As time passes without rain, this values will count down to zero.
- 7 Days Rainfall for the past 7 days. This is a rolling 7 day period, not a Monday through Sunday record. Updates at midnight each day. As time passes without rain, this values will count down to zero.
- 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 month rain reading 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 rainfall for the current month and the past 11 months combined.
- Total Shows all rainfall from the time the station was setup until the station was powered down or the value was reset. The total rainfall can show years' worth of data.

## HOW DO I RESET THE RAIN READINGS?

Your rainfall readings are reset individually.

- 1. Press and release the RAIN button to view the history reading you wish to reset.
- 2. Hold the MINUS button for 5 seconds to reset that rain value to zero.
- 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 is showing 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 I LO READING NEXT TO THE FEELS LIKE TEMPERATURE COME FROM?

Your station provides a daily HI I LO temperature reading, as well and 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 I LO temperature comes from your thermo-hygro sensor when you operate as a standalone station.
- Connected to the La Crosse View<sup>™</sup> app: When you connect to the La Crosse View<sup>™</sup> app. The daily HI | LO reading will come from the Weather Service, as a forecasted HI and LO.

## 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 Weather Service.

### 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 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
- •12H/24H Time
- •Hour
- Minutes
- Year
- Month
- Date
- •Temperature Fahrenheit/Celsius
- •SEE APP (connection prompt for app, no actual function)

### Full Program Menu:

- 1. Hold the SET button for 3 seconds to enter settings. BEEP SOUND ON will show. Press and release the PLUS or MINUS button if you want the Beep sound OFF.
- 2. Press and release the SET button to confirm and move to select 12/24 hour time format. 12/24 TIME FORMAT will show. Press and release the PLUS or MINUS button if you want 24 hour time format.

- 3. Press and release the SET button to confirm and move to the hour. 12: and SET HOUR will show. Press and release the PLUS or MINUS button to adjust the hour.
- 4. Press and release the SET button to confirm and move to the minutes. :00 and MINUTES will show. Press and release the PLUS or MINUS button to adjust the minutes.
- 5. Press and release the SET button to confirm and move to the year. 2017 and SET YEAR will show. Press and release the PLUS or MINUS button to adjust the year.
- 6. Press and release the SET button to confirm and move to the month. JANUARY and SET MONTH will show. Press and release the PLUS or MINUS button to adjust the month.
- 7. Press and release the SET button to confirm and move to the date. 01 and SET DATE will show. Press and release the PLUS or MINUS button to adjust the date.
- 8. Press and release the SET button to confirm and move to select Fahrenheit or Celsius. TEMP FAHRENHEIT will show. Press and release the PLUS or MINUS button to select Celsius (°C).
- 9. Press and release the SET button to confirm and SEE APP TO CONNECT will show. This is a reminder to connect to the La Crosse View™ app. This is not required when operating as a standalone station. There is no actual function when you see this. Press the LIGHT button to exit.

## 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<sup>™</sup> 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 LOPERATE 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 <u>batteries</u> in your wind sensor.
- A battery icon will appear near your RAIN reading when you need to change batteries in your rain sensor.
- A battery icon will appear near your OUTDOOR temperature reading when you need to change batteries in your thermo-hygro sensor.
- A battery icon will appear near your INDOOR humidity reading when you need to change batteries in your station.
- 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 the <u>program menu</u> 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

Autumoru Con 21st. Don 20th

Autumn: Sep 21st - Dec 20th

Summer: Jun 21st - Sep 20th

1. Parland

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 condition 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 8 forecast icons from the Weather Service. Your forecast will update multiple times per day. The forecast icons predict weather condition for the next 3-6 hours.

### Additional forecast icons when connected:

- Windv
- 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 weather based on when they update from the Weather Service.

Note: The Weather Service 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 I LO Temperature: Forecast of daytime maximum temperature and overnight minimum temperature.
- Wind Direction: Forecasted sustained wind direction for the indicated hour

### 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.

## **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 <u>batteries</u> 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 and your rain 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 to your station until you manually delete them.
- The barcodes are also important identifiers for the La Crosse View<sup>™</sup> 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 for 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 RAIN 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 will need to reconnect to Wi-Fi from the app. Click <u>here</u> 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 <u>batteries</u> are good. If it has been working and now is not, low batteries are the most common connection problem.
- Next, check your <u>distance</u>, <u>resistance</u> and <u>interference</u>. 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 causing 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 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.

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

• Your temperature and humidity readings are from you 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 <u>mounting</u> 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 to 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.
- Overpower or underpowered batteries can cause this reading.
- If 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 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 <u>batteries</u>. 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 <u>batteries</u>. 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 <u>program menu</u> 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 <u>batteries</u> are good. If it has been working and now is not, low batteries are the most common connection problem.
- Next, check your <u>distance</u>, <u>resistance</u> and <u>interference</u>. 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 cause 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 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.

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

Dashes indicate the connection is lost between your station and the rain sensor.

- My first thought is always to check that my <u>batteries</u> are good. If it has been working and now is not, low batteries are the most common connection problem.
- Next, check your <u>distance</u>, <u>resistance</u> and <u>interference</u>. 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 cause 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 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.

### RAIN INTERMITTANT: WHY DO MY RAIN 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 patience 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 rain sensor loses connection to your station for any reason, the station will show dashes after 30 minutes.
- The station will search for 5 minutes every hour to reconnect with rain sensor.
- Be sure you have good <u>batteries</u>. Manually search for your sensor.

### Try this:

- Bring your rain sensor within 10 feet of your station and make sure it is connected to the station. Your station will show 0.00 for rain when connected and no rain has occurred.
- After 15 minutes move the rain 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 rain sensor just outside.
- Continue moving the rain sensor back to its original location.
- If you lose connection, look for sources of interference.

### RAIN LOW: WHY IS MY RAINFALL READING LOW?

- Low rain readings indicate the rain sensor and station are connected.
- Check that the rocker tips freely.
- Check the funnel and the inside of the rain sensor for insect nests or debris that may cause loss of rocker motion.
- Be sure to mount the rain sensor level.

### Complete a Tip Test:

Write down the Total Rain reading or reset the Rain Total to 0.00. With rain sensor mounted slowly pour water into the funnel to tip the rocker of the rain sensor 10 times. Wait at least 2 minutes for all the rain to collect. Repeat three times.

• Compare these tests. If they are the same, then your rain is reading correctly. If the rain readings are different, repeat the test 3 times to avoid human error. Then look for causes such as mounting too tight or debris clogging the funnel.

### RAIN HIGH: WHY IS MY RAINFALL READING HIGH?

- Check for sources of RF (radio frequency) interference such as other wireless rain sensors, ham radios or electric transformers.
- Keep the station six feet from cordless phones or wireless routers etc.

### Complete a Tip Test:

Write down the Total Rain reading or reset the Rain Total to 0.00. With rain sensor mounted slowly pour water into the funnel to tip the rocker of the rain sensor 10 times. Wait at least 2 minutes for all the rain to collect. Repeat three times.

• Compare these tests. If they still read high then contact support.

### HOW CAN I CLEAN THE RAIN SENSOR?

- 1. Remove rain funnel (open locking tabs on both sides and pull off funnel)
- 2. Gently remove debris or insects inside the rain sensor.
- 3. Clear debris from drain vents.
- 4. Clear debris from the rain funnel.
- 5. Reinstall the rain funnel.

Note: Do not oil the rain sensor.

## 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:

- 1. Android users: http://www.lacrossetechnology.com/support/lacrosseviewandroid
- 2. 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<sup>™</sup> 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 your station. Some routers have 5.0GHZ for media streaming and 2.4GHZ for everything else.

- 1. All Wi-Fi routers have a 2.4 GHz band.
- 2. Newer routers are often multi-band routers with both 2.4 GHz and 5 GHz bands. For more information on routers please visit: <a href="https://www.lacrossetechnology.com/router\_info">https://www.lacrossetechnology.com/router\_info</a>

### 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<sup>™</sup> 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<sup>™</sup> app is compatible with both iOS and Android mobile devices. Before connecting, be sure to check a few things:

- 1. 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<sup>™</sup> app. The station itself cannot accept 5GHz Wi-Fi bands that most dual-band routers offer.
- 2. 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:

- 4. Do not use public Wi-Fi networks.
- 5. Your station and mobile device must be within 10 feet of each other during setup.
- 6. Hold the PLUS and MINUS buttons together for 3 seconds to have your station search for your Wi-Fi.
- 7. If you have connection issues, hold the RAIN and LIGHT buttons together for 5 seconds to complete a <u>factory restart</u>.

### WHAT ARE THE BENEFITS OF USING AN APP?

- 6. Monitor your backyard weather from anywhere with Internet connection.
- 7. Set alerts, view graphs, share your home's weather data with family and friends who have a free La Crosse View™ app account.
- 8. Personalize your app with your own photos, and receive push notifications.
- 9. Expanded forecast icons from the Weather Service
- 10. Internet Wind Direction.

- 11. New Data Stream Technology allows you to stream up to three items to your station.
  - Weather Service selectable forecasts: Wind, Snow, Thunderstorms, Hail, Sky Cover and more.
  - Personal Message: up to 20 characters for special events or reminders.
  - Sensor data.
- 12. Add 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<sup>™</sup> app, select your station, and then choose "Connect Wi-Fi" from the app menu. Reenter your Wi-Fi network's login information.

"CHECK APP" – Your station has lost connection with your app.

- The Wi-Fi router connection is working.
- Check your connection to the La Crosse View<sup>™</sup> 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 and error on the Weather server. There is nothing you can do for this.

- Expanded Forecast, will not update or show.
- The Weather Service will resolve this.
- Very rare to have this error.

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

- 8. Yes, it is very easy to move your station to a new location. You will simply need to connect to the new Wi-Fi.
- 9. 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 you 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/V22-WRTHV2

**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.

- From Main Menu select "Devices" under "Add/Edit"
- On Edit Devices page select "ADD DEVICE"
- 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".
- On Confirm Device page Confirm the sensor image and select "YES"
- On 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?

- 1. Unfortunately no, the La Crosse View app and this weather station are incompatible with Weather Underground.
- 2. 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.
  - 1. Android users: http://www.lacrossetechnology.com/support/lacrosseviewandroid
  - 2. iOS users: <a href="http://www.lacrossetechnology.com/support/lacrosseviewios">http://www.lacrossetechnology.com/support/lacrosseviewios</a>
- 3. Our focus moving forward will be on our own La Crosse View app, as we have the ability to make custom updates to best suit our customers' needs. So if you have ideas for changes you'd like to see, please just let us know, your opinion truly matters to us.







1. If you must have a station that connects to Weather Underground, we do offer a few models that will transmit data to both systems (you'll want to check the specs or feature list to make sure). Being weather enthusiasts ourselves, we appreciate the impact Weather Underground has had on the weather community. We hope the added features and personalization of the La Crosse View app will become a weather community standard.