

WIRELESS REMOTE MONITORING WIND STATION







Welcome!

Congratulations on your new Professional Weather Station and welcome to the La Crosse Technology family! This product was designed with you in mind by our hometown team of weather enthusiasts based in La Crosse, Wisconsin.

Model: V21-WTHv3

DC: 072120

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QUICK SETUP

- 1. Insert 2 C batteries into your LTV-W2 Wind Sensor.
- 2. Insert 2 AA batteries into your LTV-TH1 Thermo-Hygro Sensor.
- 3. 5 volt power cord (required) into V21-WTHv3 station *3-AA batteries for optional backup of your time and date
- 4. Download the La Crosse View[™] App (App Store or Google Play)
- 5. Follow along with our instructional videos to connect your station to the app: http://bit.ly/LaCrosseView_Support_Vid_01_1
 http://bit.ly/LaCrosseView_Support_Vid_01_2
- 4. Mount your sensors in appropriate locations.

QUICK MOUNTING TIPS

WIND SPEED

Ensure the sensor is mounted vertically – an unobstructed rooftop is ideal.

• Your wind sensor should be the tallest object in the area to avoid educed wind speed values.

THERMO-HYGRO

Keep out of direct sunlight & ensure the sensor is well-ventilated.

• We recommend mounting it on a north-facing wall under an eave or deck for best results.

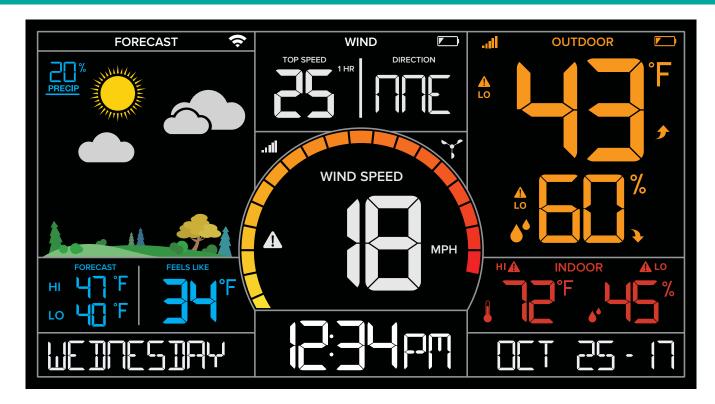
BUTTON FUNCTIONS

Buttons located on top of your Wind Station

ALERTS	Hold to set alerts. Press to confirm setting and move to next alert.	
WIND, TEMP	Press to view history.	
+ or -	Use + or – to adjust values in settings. Hold to adjust quickly.	
+ & -	Hold both buttons to search for Wi-Fi.	
SET	Press to view Wi-Fi Status. Hold for basic settings.	
SENSOR	Press to view sensor ID numbers, then hold PLUS (+) to search, or hold MINUS (–) to remove.	
LIGHT	Press to adjust brightness.	
ALERTS & LIGHT	Hold both to Factory Reset Station. All sensor ID's, History, and Wi-Fi settings will be reset.	

^{*}Battery operation only, station will not update sensor or Wi-Fi data. Power cord is required.

WEATHER STATION ICONS





Weather Forecast Icons



Low Battery Icons



Wind Speed Icon



Miles or Kilometers - Wind Speed



Wi-Fi Connection Icon





Trend Arrows



Fahrenheit or Celsius - Temperature



Percentage



Relative Humidity Icon



Temperature Icon



Standalone stations can only display time and date information as shown here



Connected stations offer the ability to display custom data, controlled with the La Crosse View[™] app

CONNECT TO LA CROSSE VIEW™ APP

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

GET YOUR STATION READY

Ensure your station's Wi-Fi Indicator is flashing. If it is not, press and hold the Plus (+) and Minus (–) buttons down together until it begins flashing. This tells you that your station is ready to connect.

DOWNLOAD

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

Download on the GET IT ON

LAUNCH & FOLLOW

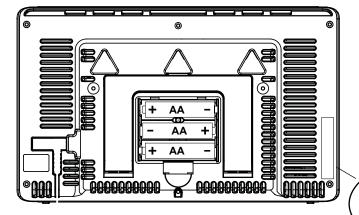
Open the La Crosse View[™] app and follow the on-screen instructions.

App Store

HAVING TROUBLES CONNECTING?

Make sure your mobile device is connected to your router's 2.4GHz Wi-Fi network, and that you've correctly entered your Wi-Fi password.

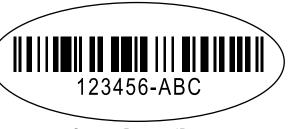
For more troubleshooting tips and support visit: www.lacrossetechnology.com/lacrosseviewsupport



 Your device ID can be found on the back of the station.

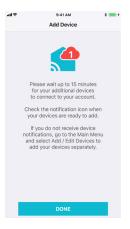
Google Play

• Within 15 minutes after your station connects to the La Crosse View app, you should receive notifications to add your sensors. These will display in your app's Notification Center.



Station Device ID

When your sensors are ready to be added, you'll see your app's cloud turn red. Press this Cloud Icon to begin adding your sensors.







BENEFITS OF CONNECTING TO LA CROSSE VIEW™

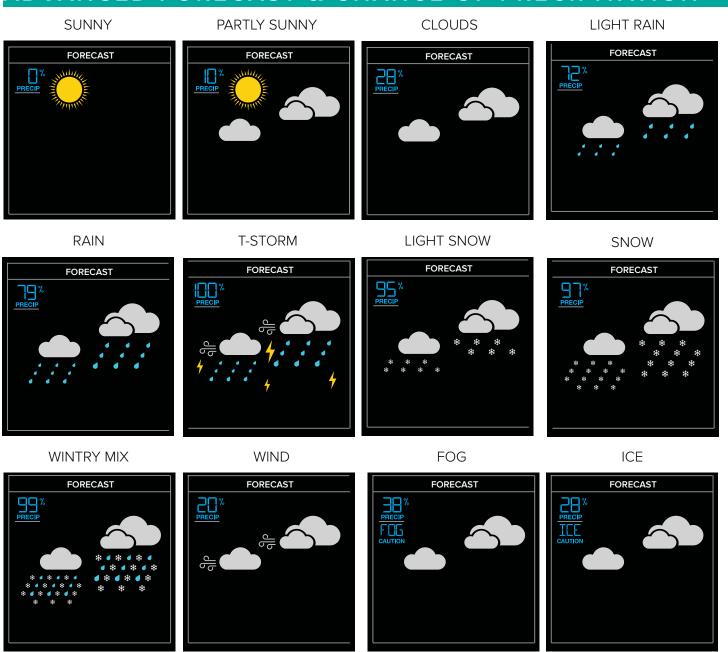


FEATURES	STANDALONE	CONNECTED
Wind Speed		
Internet Wind Direction		
Indoor & Outdoor Temperature		
"Feels Like" Temperature		
Indoor & Outdoor Humidity		
12-Hour Forecast		
Internet Time and Calendar		
Advance Forecast Icons		
Daily Forecast HIs & LOs		
% Chance of Precipitation		
Data Stream Technology		
Remote Monitoring		
Set Alerts		
View Graphs		

ENHANCED LACROSSE VIEW CONNECTED FEATURES.

- Advanced Forecast Icons & Chance of Precipitation (12 Hour Forecast)
- AccuWeather HI/LO Temperatures
- AccuWeather Wind Direction
- Custom Data Streams

ADVANCED FORECAST & CHANCE OF PRECIPITATION



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 4 times daily.

ACCUWEATHER HI/LO TEMPERATURES

- When connected, your daily AccuWeather HI/LO Temperature predictions will display in this section.
- If unconnected, this section will display your Outdoor Temperature Records registered daily by your Thermo-Hygro Sensor. These will automatically reset at Midnight everyday.



FEELS LIKE TEMPERATURE

Your "Feels Like" temperature is a combination of outdoor temperature, humidity and wind speed.

- When outdoor temperature is higher than 80°F, Heat Index will show as the Feels Like Temperature.
- When outdoor temperature is lower than 50°F, Wind Chill will show as the Feels Like Temperature.
- When outdoor temperature is between 51°F and 79°F, will show Current Outdoor Temperature as the Feels Like Temperature.

Note: When you have a high humidity reading, but the temperature is not over 80°F the Feels Like temperature will remain the same as the current outdoor temperature.

CUSTOM DATA STREAMS

Use the Data Stream Menu in the La Crosse View[™] app to select up to 3 items to stream on your station.

- 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.



Custom Data Stream

Data Stream Items:



Customizable Data Streams to enhance your in-home display:

Wind Speed • Wind Direction • Wind Gust • UV Index • Visibility • Percentage of Clouds • Sunrise Time Sunset Time • Hours of Sunlight • Moon Rise Time • Moon Set Time • Temperature/Humidity • and more!

Personal Messages

Enter up to 20 characters for special events or reminders, such as:

• SOCCER TONIGHT • ICE CREAM IN FREEZER • GREAT JOB MATH TEST or anything you can think of!

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

ADDITIONAL SENSORS CAN READ TO YOUR APP

How to add Sensors to your La Crosse View App only:

- 1. Install batteries in the sensor, and if the sensor has a TX button, press the TX button to force a signal.
- 2. Scan sensor bar code ID so it will read in the La Crosse View app.

Details: 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 Name for your sensor. Select "DONE".

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

Purchase Additional Sensors: www.lacrossetechnology.com/sensor-finder/

STATUS MESSAGES WHEN CONNECTED

Quick Tip:

- The Internet Icons 6 by your Forecast, Wind Direction and HI/LO Temperatures will indicate connection to the La Crosse View App and Weather Server.

Status Messages on you station will let you know if there are issues. Press and release the SET button to view the status of your station.

ALL OK CONNECTED

 Station is connected all the way through to the La Crosse View app.



LOST WIFI

- 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.



NO WEATHER SERVICE

- Wi-Fi, and App are fine.
- Weather/Time service not connecting. This will be resolved at the Weather Server. Please be patient.
- Weather Forecast, Precipitation and Weather HI/LO temperature will not be displayed.



FEATURES OF YOUR WEATHER STATION

Your station provides most functionality when connected to the La Crosse View app. However it is fully functional as a **standalone station**.

Here we have included the details for various functions of your station:

- Adjustable Backlight
- Settings Menu
- Wind Speed Readings and History
- Temperature/Humidity Readings and HI/LO Records
- Feels Like Temperature
- Temperature Trend Arrows
- Low Battery Indicators
- Sensor Reception Indicator
- Sensor ID's and Sensor Search
- Delete Sensor
- Factory Restart Station

ADJUSTABLE BACKLIGHT

Your station has 5 levels of brightness for the backlight:

• Press and release the LIGHT button to adjust the backlight at 5 levels of intensity. Levels: OFF = 0% | level 1 = 1.5% | level 2 = 20% | level 3 = 50% | level 4 = 100%.

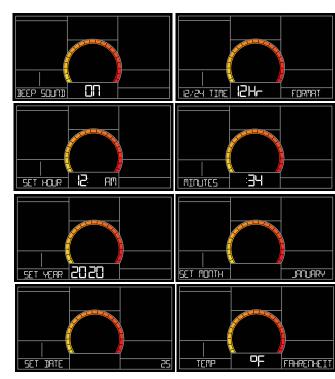
SETTINGS MENU

- 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 menu order:

- BEEP ON LOFE
- 12/24 hour format
- Hour
- Minutes
- Year
- Month
- Date
- Fahrenheit | Celsius



WIND SPEED READINGS & HISTORY

Wind Speed:

Reflects highest current wind speed

Top Speed:

• Reflects highest wind speed in the past 60 minutes.

Wind Cup animation:

- The wind cups spinning speed will vary with actual wind speed.
- When wind speed is higher, the cups spin faster.

24HR Wind Speed or Internet Wind Direction:

- When not connected you will see the 24HR wind speed next to the 1HR wind speed.
- When station is synced to the La Crosse View[™] App, the 24HR wind speed will forecast Wind Direction.

Standalone Station WIND TOP SPEED WIND SPEED WIND SPEED MPH

Station with La Crosse View App



Wind Speed History:

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

Note: All other readings will disappear for 5 seconds.

One Hour:

 Past 60 minute period (default Top Speed record, always shown)

24 hour:

Past 24 hour period, from last record

7 Days:

• Past 7-day period, from last record

Current Month:

- Defined by Calendar Month (i.e. January 1 January 31)
- Press and release the PLUS button to view previous months.

Year:

• Defined by Calendar Year (i.e. January 1 - December 31)









Reset Wind Speed History:

- 1. Press the WIND button to view individual wind speed readings.
- 2. Hold the MINUS button for five seconds to reset the individual value.
- 3. Wind speed reading will reset to current wind speed, time and date.

TEMPERATURE/HUMIDITY READINGS & HI/LO RECORDS

Your current Indoor and Outdoor temperature and Humidity are constantly displayed on your weather station. Your station records your HI and LO Temperature and Humidity with time and date of occurrence.

- 1. Press and release the TEMP button to view your HI and LO records with time and date of occurrence.
- 2. Any new HI or LO record will replace the existing record.

Viewing order:

- Outdoor HI Temp with Time/Date
- Outdoor LO Temp with Time/Date
- Outdoor HI Humidity with Time/Date
- Outdoor LO Humidity with Time/Date
- Indoor HI Temp with Time/Date
- Indoor LO Temp with Time/Date
- Indoor HI Humidity with Time/Date
- Indoor LO Humidity with Time/Date
- Feels Like HI Temp with Time/Date
- Feels Like LO Temp with Time/Date
- Outdoor Dew Point

Reset HI/LO Temperature/Humidity Records:

- 1. Press and release the TEMP button to view individual temperature/humidity readings.
- 2. Hold the MINUS button for five seconds to reset the individual value.
- 3. Temperature and Humidity readings will reset to current temperature, humidity, time and date.



TEMPERATURE TREND ARROWS

Your Outdoor Temperature Trend Arrows update every 15 minutes. The trend reflects changes over the past one hour period.



UP ARROW: For this to show, the temperature will have to rise by 2°F (1°C), or more within the current hour.



RIGHT ARROW: Temperature is steady



DOWN ARROW: For this to show, the temperature will have to fall by 2°F (1°C), more within the current hour.

ALERTS: WIND/TEMPERATURE/HUMIDITY

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

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 the next alert. (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.

Alert Setting Order:

- High Wind Speed
- Outdoor LOW Temperature
- Outdoor HIGH Temperature
- Outdoor LOW Humidity
- Outdoor HIGH Humidity
- Indoor LOW Temperature
- Indoor HIGH Temperature
- Indoor LOW Humidity
- Indoor HIGH Humidity

Note: Only a sample of the alerts are shown in this manual.













ARM/DISARM ALERTS

- 1. Hold the ALERTS button 3 seconds to enter alert set mode.
- 2. Press and release 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.

ACTIVE ALERT

- When armed alert value is reached, 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 alert value is in alert range.
- Disarm the alert to stop the alert entirely.

SENSOR RECEPTION INDICATORS III

There are Sensor Reception Indicators for your Temperature/Humidity Sensor, and Wind Sensor.

- When indicator is solid, sensor is connected.
- When indicator is flashing, it is searching for the individual sensor.
- If there is no indicator, the sensor is not connected.

SENSOR ID & SENSOR SEARCH

Your station and each sensor have a unique ID number that will identify them in the La Crosse View app. This has the added bonus of locking them into your weather station until you manually delete them.

View ID numbers in station:

Press and release the SENSOR button. The ID number and type will show on the bottom of the station.

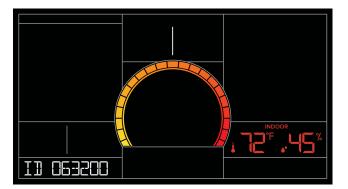
- Station
- TH Sensor
- Wind Sensor
- Rain Sensor

Search for Individual sensors:

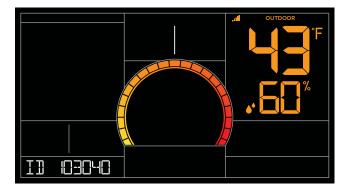
- 1. Press and release the SENSOR button to view sensor type and ID.
- 2. Hold the SENSOR button to search for all sensors. The reception indicator will flash for up to 3 minutes.
- 3. Allow up to 3 minutes to view sensor and ID on station.

Note: Once sensor is found search will stop. The reception indication will stop flashing. Sensor and ID will show for 3 seconds.

Station ID



TH Sensor ID



Wind Sensor ID



DELETE SENSORS

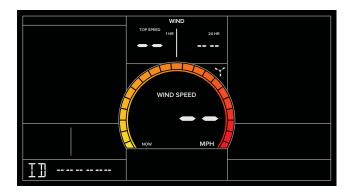
- 1. Press and release the SENSOR button to view sensor and ID.
- 2. Hold the MINUS button to delete the sensor from the station.
- 3. Deleted sensor can no longer show on station. Batteries should be removed.
- 4. Station will automatically search for a replacement sensor of the same type. **Example:** Delete a Wind sensor, the station will search for a new Wind sensor.
- 5. If replacing a sensor, insert batteries into the new sensor. Once station receives sensor, press the SENSOR button to confirm sensor ID.

Note: Deleted, working, Sensors with batteries installed, may still pass through to the app but will no longer show on the station.

Wind Sensor ID



Wind Sensor Deleted



LOW BATTERY INDICATORS 🗁

- Low battery by Outdoor Temperature, replace batteries in the TH sensor.
- Low battery by Wind, replace batteries in the Wind Sensor.



FACTORY RESTART STATION

A factory restart of your station will remove all sensor ID numbers and Wi-Fi settings and return it to its default settings and "out of the box" condition.

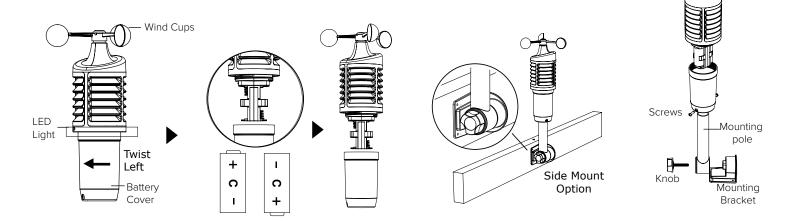
This may resolve connection issues with your sensors or Wi-Fi.

- 1. Hold the ALERTS and LIGHT buttons together for 5 seconds.
- 2. Your station will reset and search for all sensors.
- 3. Allow up to 3 minutes to reacquire all sensors.
- 4. You will need to reconnect to your La Crosse View app by selecting CONNECT WIFI from the menu in your La Crosse View App and entering your Wi-Fi password.

DETAILED SETUP & MOUNTING

LTV-W2 Wind Speed Sensor

- 1. Turn the battery cover of your wind sensor to the left.
- 2. Install fresh "C" batteries.
- 3. Carefully align and turn battery cover right to tighten.
- 4. There is a blue LED light on the sensor that will flash when transmitting.



Mounting:

- Position in an open area that will have the least amount of interference with wind speed.
- Mount your sensor vertically with the wind cups on top.
- The maximum wireless transmission range to the station is up to 400 feet (121 meters) in open air, not including walls or trees.
- 1. Use screws through the bottom of the mounting bracket to attach.
- 2. Insert bottom of pole into mounting bracket. Tighten knob to secure
- 3. Insert the included mounting pole into your sensor.
- 4. Tighten screws.

Alternatively:

- 1. Insert your own mounting pole (no more than 1 inch outside diameter") into the sensor.
- 2. Tighten screws

LTV-TH2 Thermo-Hygro Sensor

1. Install 2-AA batteries according to polarity and replace battery cover.

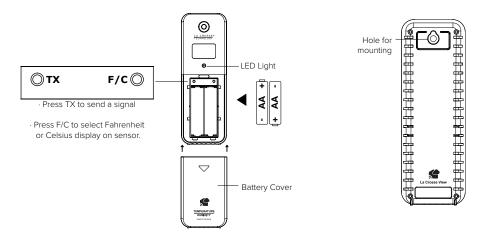
Mounting:

1. Use the hole at the top to hang your sensor from the back using a nail. Or, insert one mounting screw through

the front of your sensor.

- 2. Mount your sensor on a north-facing wall or in any shaded area. Under an eave or deck rail is preferred.
- 3. The maximum wireless transmission range to the weather station is up to 400 feet (121 meters) in open air, not including walls or floors.
- 4. Be sure your sensor is mounted vertically, to allow moisture to drain out properly.

Note: Watch sensor mounting video: http://bit.ly/TH_SensorMounting



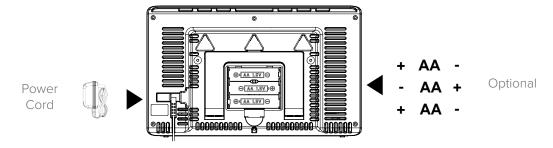
V21-WTHv3 Weather Station:

1. Insert the power cord into a wall outlet, then into your station.

Optional: Insert 3 AA batteries into your station to maintain time/date in the event of a power outage.

Mounting:

- 1. Place your station near an outlet. Power cord is required for operation.
- 2. Use the mounting holes on the back to place your station on a wall.
- 3. Use the pull down stand on the back of your station to place on a desk or counter.
- 4. Your station should remain in good Wi-Fi range of your wireless router to use all the remote monitoring options using the La Crosse View app.



CARE & MAINTENANCE

When batteries of different brand or type are used together, or new and old batteries are used together, some batteries may be over-discharged due to a difference of voltage or capacity. This can result in venting, leakage, and rupture and may cause personal injury.

- Do not mix Alkaline, Lithium, standard, or rechargeable batteries.
- Always purchase the correct size and grade of battery most suitable for the intended use.
- Always replace the whole set of batteries at one time, taking care not to mix old and new ones, or batteries of different types.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed correctly with regard to polarity (+ and -).
- · Remove batteries from product during periods of non-use. Battery leakage can cause corrosion and damage to this product.
- Remove used batteries promptly.
- For recycling and disposal of batteries, and to protect the environment, please check the internet or your local phone directory for local recycling centers and/or follow local government regulations.

STAY IN TOUCH

Ask questions, watch set up videos, and provide feedback on our social media outlets. Follow La Crosse Technology on Youtube, Facebook, Instagram, and X (Twitter).



WARNING: This product can expose you to chemicals including acrylonitrile, 1, 3-butadiene, and styrene, which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to: www.P65Warnings.ca.gov

SPECIFICATIONS

Indoor

Temperature Range: 32°F to 122°F (0°C to 50°C)

Humidity Range: 10% RH to 99%RH

Thermo-hygro Sensor

Temperature Range: -40°F to 140°F (-40°C to 60°C)

Note: Temperatures below -20°F (-29°C) require Lithium batteries in the

outdoor sensor.

Humidity Range: 10% RH to 99%RH

Transmission Range: Up to 400 feet (121 meters) in open air, RF 915 MHz

Wind Speed Sensor

Wind Speed Range: 0-111 mph (0-178 kmh)

Transmission Range: Up to 400 feet (121 meters) in open air, RF 915 MHz

Wi-Fi

Transmission: RF 2.4 GHz

Power

V21-WTHv3 Station: 5.0 Volt 500mA power cord included (Required)

AC6: HX06-0500600-AU-001 Input: 100-240V 0.3A 50/60Hz

Optional Battery Backup: 3-AA batteries not included, backup for time and date

LTV-TH1 Thermo-hygro Sensor: 2-AA batteries not included

LTV-W2 Wind Speed Sensor: 2-C batteries not included

Battery Life

V21-WTHv3 Station: 48-60 months with power cord use

LTV-TH1, & LTV-W2 Sensors: over 24 months with reputable batteries.

Dimensions

V21-WTHv3 Station: 8.98" L x 1.0" W x 5.43" H (22.8cm L x 2.6 cm W x 13.8cm H)

LTV-TH1 Thermo-hygro Sensor: 1.97" L x 0.75" W x 5.73" H (5.0cm L x 1.91cm W x 14.55cm H)

LTV-W2 Wind Speed Sensor: 7.10" L x 7.10" W x 18.57" H (18.03cm L x 18.03cm W x 47.17cm H)

with mounting bracket/pole

WARRANTY & SUPPORT

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

Online: bit.ly/contact_techsupport

Phone: 1.844.200.8752

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

La Crosse Technology, Ltd. provides a 1-year limited time warranty (from date of purchase) on this product relating to manufacturing defects in materials & workmanship. La Crosse Technology, Ltd, 2830 S. 26th St., La Crosse, WI 54601

For Full Warranty Details, Visit: www.lacrossetechnology.com/pages/warranty

Patents: www.lacrossetechnology.com/pages/patents

FCC STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- —Increase the separation between the equipment and receiver.
- —Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- —Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure Statement

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment and it also complies with Part 15 of the FCC RF Rules. This equipment must be installed and operated in accordance with provided instructions and the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter. End-users and installers must be provided with antenna installation instructions and consider removing the no-collocation statement.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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