

PROFESSIONAL Remote Monitoring Weather Station



Instructional Manual

Models: C84428 & LTV-D1
DC: 060617

1. Simple Easy Setup

Insert (in any order):

- 2-AA batteries into Thermo-hygro sensor
- 2-AA batteries into Rain sensor
- 2-C batteries into Wind speed sensor
- 2-AAA batteries into LTV-D1 bonus station
- 5 volt power cord (required) into C84228 station
3-AA batteries optional backup for time and date*

For detailed sensor setup and mounting instructions, see [page 6](#).

Note: Press and release the SENSOR button to confirm sensor ID's on station match bar codes on your sensors.

*Batteries operation only will not update sensor or Wi-Fi data. Power cord is required.

2. Select Your Station Use

Option 1: Connected with La Crosse View

• Benefits:



- o Remotely monitor your home's data from anywhere* at any time using this station's built-in wireless Wi-Fi technology
- o Automatically receive time, date, and NWS forecast information
- o Set mobile alerts to keep loved ones safe
- o Easily share data with friends & family
- o Unlock new Data Stream technology
- o And so much more...

• Continue with La Crosse View instructions on [Page 3](#)

Option 2: Standalone Station

• Benefits:

- o View all local sensor data right on your bright easy to read LCD display
- o No phone or Wi-Fi needed

• Continue with these instructions on [Page 13](#)

*Anywhere you have an Internet connection

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Easy Connection to La Crosse View

Connecting You to Your Home Anytime, Anywhere.

- Simply download your La Crosse View app and follow the on-screen instructions.



Wi-Fi Network Requirements

In order for your station to connect to your WiFi, it will need to meet the following requirements:

- Your Wi-Fi network broadcasts at 2.4GHz (802.11 b/g/n).
- Your network name and password do not exceed 45 characters
- Your network upload speed is greater than 1Mbps.
- Power cord 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 5.0 (or higher) with cellular or Wi-Fi service

Tips:

- For your security, this app will only work on protected WiFi networks.
- Open public networks that require a browser sign in, should not be used.
- The Wi-Fi for your mobile device must be on the same network as your weather station. Check the Wi-Fi setting on your mobile device.
- During setup, your weather station and mobile device must be in close proximity.
- Hold the PLUS and MINUS buttons together for 3 seconds to have your station search for your Wi-Fi.
- If you change your Wi-Fi network, hold the RAIN and LIGHT buttons together for 5 seconds to complete a factory restart. This will reset the Wi-Fi settings so you can connect to your new network.

Note: Your station may take up to 3 minutes to reacquire all sensors.

Note: in the event of a power outage, or your station being unplugged temporarily, your station should reconnect to your existing Wi-Fi network.

Note: Batteries operation only will not update sensor or Wi-Fi data. Power cord is required

Benefits of Your La Crosse View

NWS Expanded Forecasts

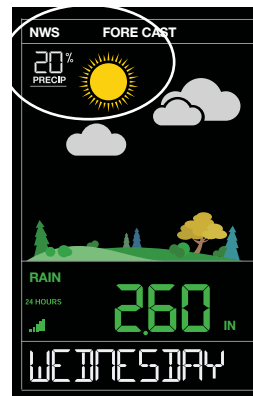
1. NWS will show in front of the word forecast
2. NWS chance of precipitation will be shown.
3. Your station will show additional weather icons based on NWS weather forecasts.

Standard Icons:

- Sunny • Partly Sunny • Clouds • Rain • T-Storm • Snow

Additional Icons:

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



Extra Weather Information


1. NWS Daily HI | LO temperature
Note: When not using the App, the daily HI | LO will come from your outdoor sensor.
2. The words "NWS Wind Direction" will show, and the blue circle will change to indicate wind direction.
3. Time and Date will update from the NIST.
Note: NIST time will over rule manual set time and date. You can choose to turn this feature off within La Crosse View.



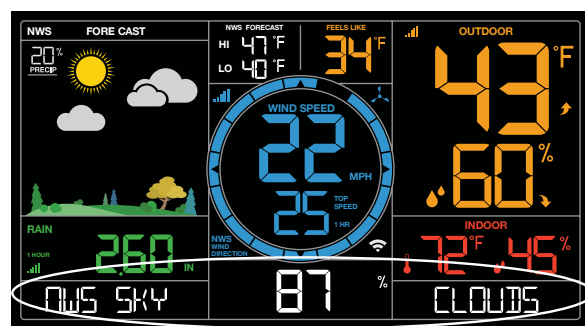
Select Your Own Data Streams

Use the Smartbox in the La Crosse View app to select up to 4 data items to stream on the station.

- NWS data items
- Your current sensor data
- Time/Date
- Personal message
- Add-on sensors (sold separately)

1. Open the La Crosse View app and select your station. 
2. Scroll down to the Smartbox section and press the blue icon.
3. Follow instruction on app to add "Device Data Feed" and select your Smartbox feeds.

Allow a few minutes for all the data to show on your station.



Wi-Fi Indicator



- Solid: indicates that your Wi-Fi connection is good.
- Flashing: Searching for connection
- Not displayed: Not Connected
- One, two or three bars: Wi-Fi signal strength.

Your Station has Status Messages

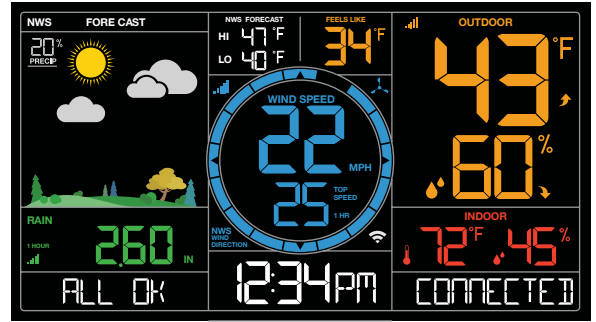
Your station has built in status messages.

- Press and release of the SET button to view.

Note: Only one relevant status message will display.

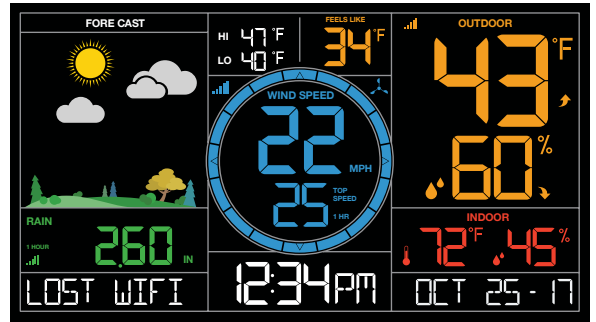
“ALL OK CONNECTED”

- Your station is connected, there are no problems.



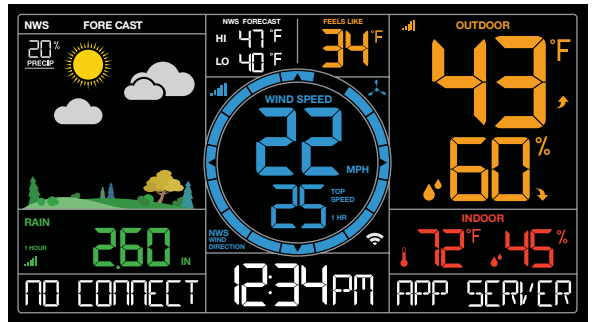
“LOST WIFI”

- Check your power cord connection. (must use power cord to connect)
- Check your router connection (use 2.4GHz)
- Check your network connection.
- Press the + and - buttons together for 3 seconds to search for Wi-Fi



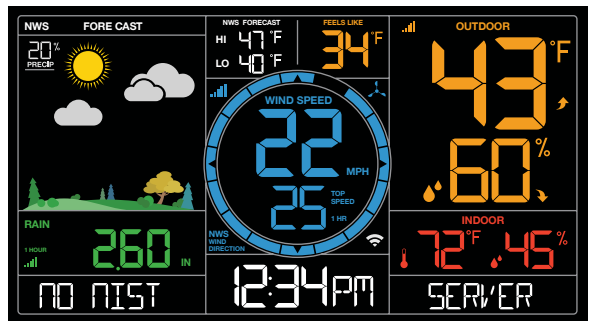
“NO CONNECT APP SERVER”

- Check your connection to the La Crosse View app.
- Is there an update to install?
- The WiFi router connection is working.



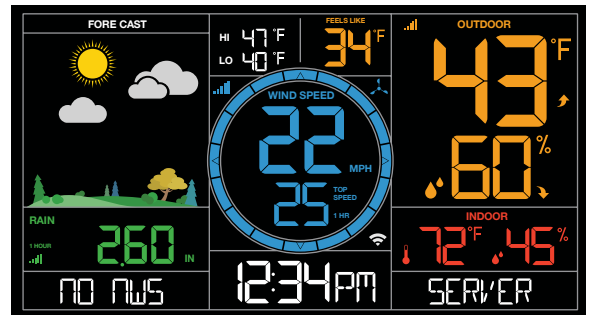
“NO NIST SERVER”

- This indicates an error on the NIST server.
- The NIST will resolve this.
- Very rare to have this error.
- Time will update from your weather station.



“NO NWS SERVER”

- This indicates an error on the NWS server.
- The NWS will resolve this.
- Very rare to have this error.



Detailed Sensor Set Up and Mounting

1. Turn the vented portion of your wind sensor counter clockwise.
2. Install fresh “C” batteries.
3. Carefully align and turn vented portion clockwise 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 wind station is over 330 feet (100 meters) in open air, not including walls or trees.

1. Insert mounting pole into your sensor.
2. Tighten screws
3. Insert bottom of pole into mounting bracket
4. Tighten knob to secure
5. Use screws through the bottom of the mounting bracket to attach.
6. The sensor can be mounted from the bottom or side.

Alternatively:

1. Insert your own mounting pole into the sensor.
2. Tighten screws

1. Flip open both side tabs on your rain sensor and lift off the top portion.
2. Pull up on the battery cover and remove.
3. Install 2-AA batteries according to polarity.
4. Firmly seat the battery cover so it locks onto your rain sensor.
5. Place the top portion on the sensor and lock the tabs.

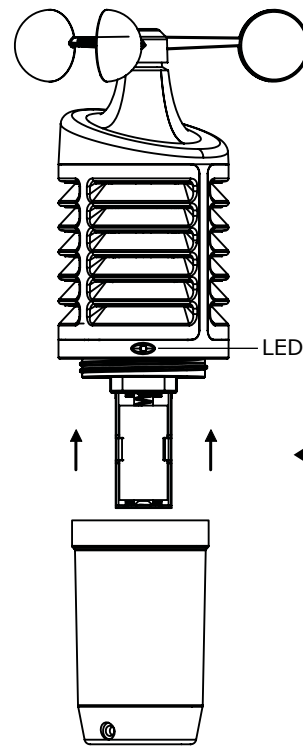
Mounting:

1. Mount in an open area for a more accurate rain count.
2. Install the Rain sensor on a level platform that is stationary. The rain sensor should be wider than the platform to allow rain to empty.
3. Insert one, two, or three mounting screws through the holes in the base of your rain sensor.
4. Mount your rain sensor at least 6 ft in the air and have a direct line of sight to the display.
5. Your rain sensor should be accessible to allow for periodic cleaning of debris or insects.
6. The maximum wireless transmission range to the rain station is over 330 feet (100 meters) in open air, not including walls or floors.
7. For video instruction, please visit: http://bit.ly/Rain_SensorMounting

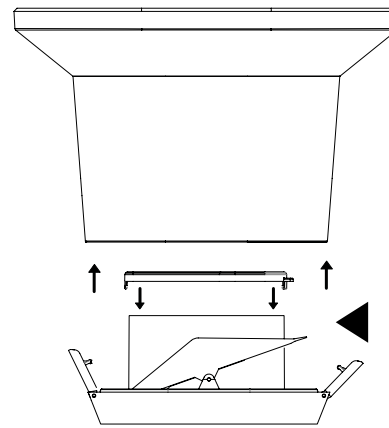
1. Slide the battery cover off the front of your sensor.
2. Install 2-AA batteries according to polarity and replace battery cover.

Mounting:

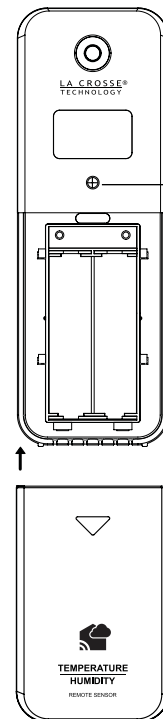
1. Use the hole at the top to hang your sensor from the back using a nail. Or, insert one mounting screw through the front of your sensor.
2. Mount your sensor on a north-facing wall or in any shaded area. Under an eave or deck rail is preferred.
3. The maximum wireless transmission range to the weather station is over 330 feet (100 meters) in open air, not including walls or floors.
4. Be sure your sensor is mounted vertically, to allow moisture to drain out properly.
5. For video instruction, please visit: http://bit.ly/TH_SensorMounting



Wind Speed sensor
LTV-W2
2-C



Rain sensor
LTV-R2
2-AA



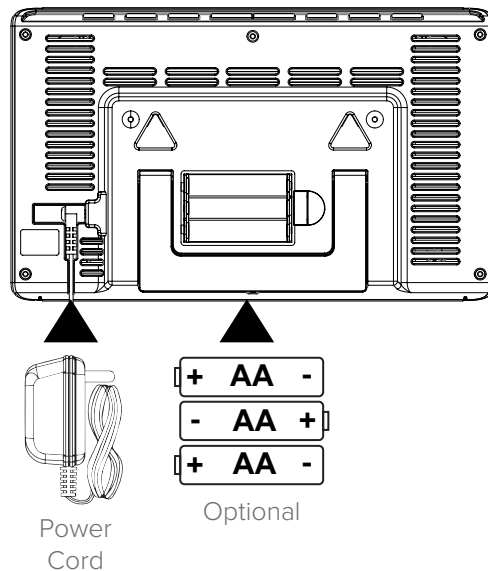
Thermo-hygro sensor
LTV-TH2
2-AA

C84428

1. Insert the power cord into the wall outlet then into your station.
2. 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 out stand on the back of your station to place on a desk or counter.
4. Your station should be within 80 feet of your wireless router if you choose to use all the remote monitoring options.



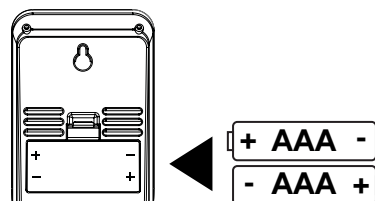
LTV-D1

1. insert 2 AAA batteries into your bonus station according to polarity.

Mounting:

1. Place you bonus station on a desk or counter top.
2. Use the mounting hole on the back to place your station on a wall.

Note: the bonus station does not connect to the La Crosse View app.



Wind Speed Readings

Wind Speed: Reflects highest current wind speed in the past 31 seconds.

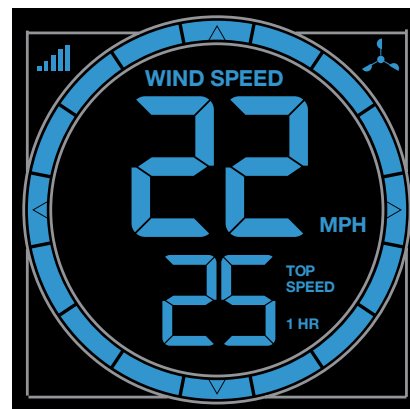
Top Speed: Reflects highest wind speed in the past 60 minutes.

Wind Cup animation: The wind cups spinning speed will vary with actual wind speed. When wind speed is higher, the cups spin faster.

Blue Circle: The blue circle will remain solid, when operating as a stand alone station.

Note: When station is synced to the La Crosse View App, the circle will reflect NWS Wind Direction.

Stand Alone Station



Station with La Crosse View App



Wind Speed History

Your station records Wind History. Simply press and release the WIND button to view your wind history. Other readings will disappear temporarily

One Hour: past 60 minute period

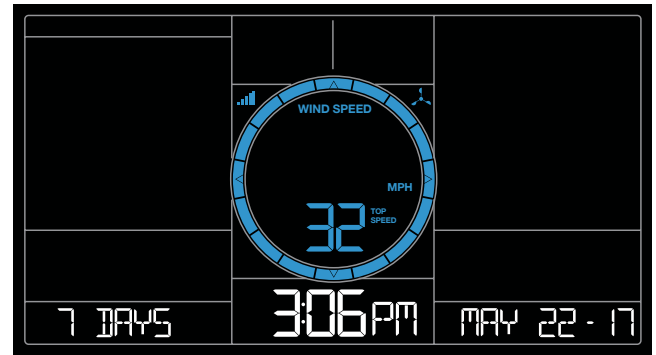
(default Top Speed record, always shown)

24 hour: Past 24 hour period, from last record

7 Days: Past 7-day period, from last record

Month: Defined by Calendar Month i.e. January 1 - January 31

Year: Defined by Calendar Year i.e. January 1 - December 31



Reset Wind Speed History

1. Press and release 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.

Rainfall Readings

You can quickly view Rain History on your station. Press and release the RAIN button to view rainfall history to display. Other readings will disappear temporarily. Your station will stay on your selection.

NOW: Rain readings from the start of a rain event until no rain has accumulated for 30 minutes. When there has been no rainfall for 30 minutes, this number will reset to zero.

1 Hour: Rainfall in the past 60 minutes (last twelve 5 minute samples). Example: current time is 6:49, 1HOUR is the accumulated rain between 5:50 to 6:49.

24 Hours: Rainfall for the past 24 hours. Updates at each full hour. This is a running total.

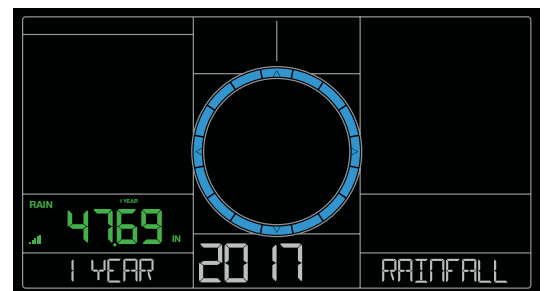
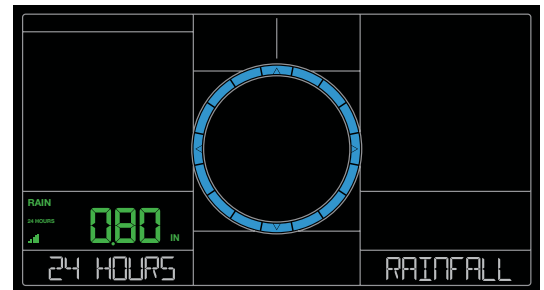
7 Days: Rainfall from the last 7 consecutive 24 hour rainfall readings. Updates each day at midnight. Not a subject to the calendar. Be sure your time is set.

1 Month: Current Month: First day to current day. Current month will show.

1 YEAR: Current month plus past 11 months total. Current year will show.

Total: Total rainfall since station was powered on or reset.

Note: As time passes without rain, the 1 hour, 24 hour, and 7 day rain totals will count down to zero.



Reset Rainfall Readings

1. Press the RAIN button to view individual rain readings.
2. Hold the MINUS button for five seconds to reset the individual value.
3. Rainfall reading will reset to 0.00

HI | LO Temperature/Humidity Records

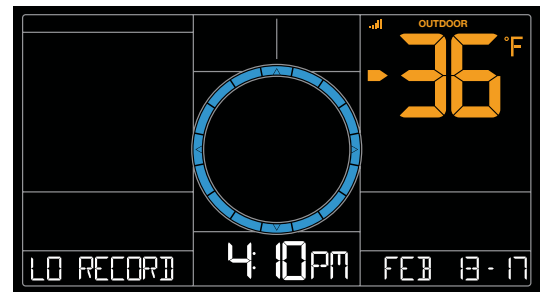
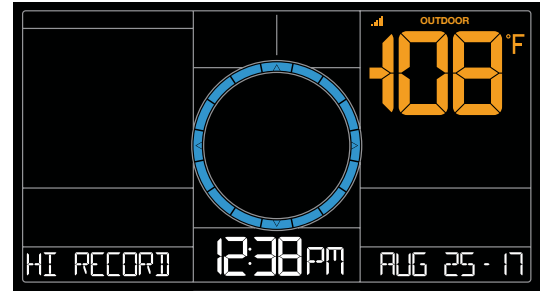
Your station records HI and LO records with time and date of occurrence. A new HI or LO record will replace the existing record. Press and release the TEMP button to view your HI and LO records.

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 with time and date stamp
- Feels Like LO with time and date stamp
- Outdoor Dew Point



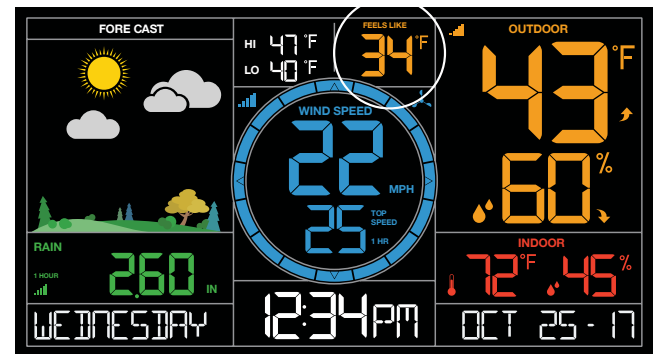
Reset HI | LO Temperature/Humidity Records

1. Press the TEMP button to view individual readings.
2. Hold the MINUS button for five seconds to reset the individual value.
3. HI | LO reading will reset to current temperature, humidity, and current time/date.

Feels Like Temperature

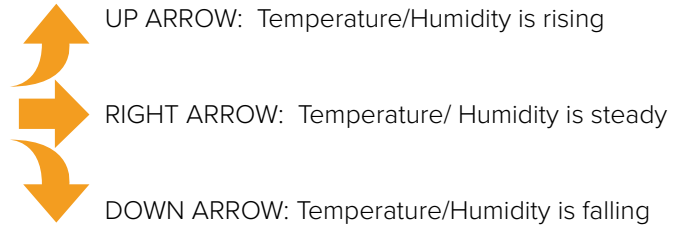
Your “Feels Like” temperature is a combination of outdoor temperature/humidity and wind speed.

- 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 50°F and 80°F, will show current outdoor temp as the Feels Like Temperature.



Temperature | Humidity Trend Arrows

Your temperature (2°F / 1°C) and humidity (3%) trend indicators (arrows) update every 15 minutes. The trend reflects changes over the past one hour period.



Seasonal Changes in Trees

The tree foliage will change seasonally on your weather station. The dates are programmed into the weather station for automatic foliage change.

Spring



March 20th – June 20th

Summer



June 21st – Sept. 20th

Autumn



Sept. 21st – Dec 20th

Winter



Dec 21st – Mar 19th

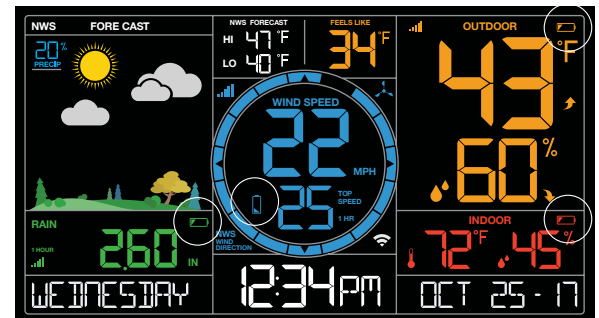
Backlight (5 levels)

Your station has 5 levels of brightness for the backlight:

- When operating with the AC adapter press and release the LIGHT button to adjust the backlight:
Intensity Levels: 0% | 3% | 20% | 50% | 100%
- When operating on battery power only, press the LIGHT button to activate the backlight for 10 seconds at 100%.

Low Battery Icons

- Battery by Outdoor Temperature, replace batteries in your Thermo-Hygro sensor.
- Battery by Wind, replace batteries in your Wind sensor.
- Battery by Rain, replace batteries in your rain sensor.
- Battery by Indoor Temperature, replace batteries in your station.



Sensor Update Interval

Sensor:	Change Required for Update	Updates:	No Change- Sensor Updates:
Rain	0.007 inch (0.2mm)	every 45 seconds	every 3 minutes
Wind	0.5 mph (0.8 km)	every 31.5 seconds	every 3 minutes
Temp/Humidity	0.9F (0.5 C)	every 50 seconds	every 3 minutes.

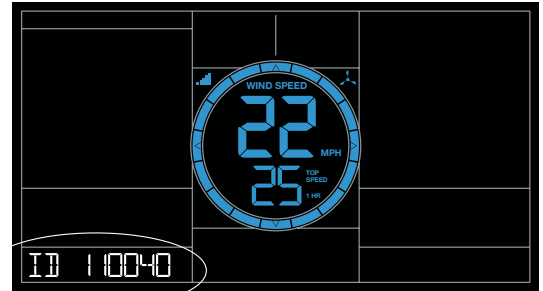
Example: It does not rain everyday. When it is not raining the rain sensor will update every 3 minutes. When it is raining , the rain sensor will updated every 45 seconds.

Sensor Search | Sensor ID

Each of your sensors has an individual ID number on the bar code of the sensor. This sensor ID is visible on your station by pressing the SENSOR button.

View ID numbers:

- Press and release the SENSOR button to view individual station and sensor ID numbers. All other information will disappear temporarily.



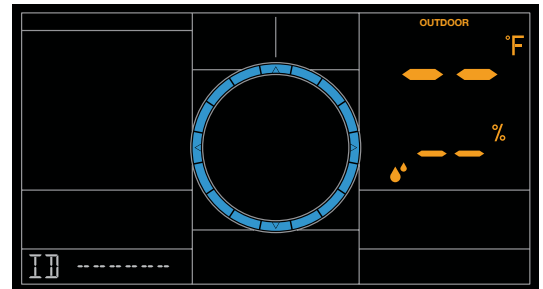
Search for all sensors:

- While viewing sensor ID, hold the SENSOR button for 3 seconds to search for all sensors.
- The station will search for all sensor ID numbers on the station.
- The sensor reception icon will flash for each sensor while searching.
- Allow up to 3 minutes to receive sensor signal.

Delete Sensor ID

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

1. Press and release the SENSOR button to view your sensor ID number.
2. 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.
3. Your station will search for a new sensor. Remove batteries from your old sensor.
4. Install batteries in your new sensor and allow up to three minutes for your new sensor readings and ID to appear on your station.



Note: When replacing your Thermo-hygro sensor, press the TX button (under the battery cover) to send a signal immediately. The Rain and Wind sensors do not have a TX button.




Add-on Sensors (sold separately)

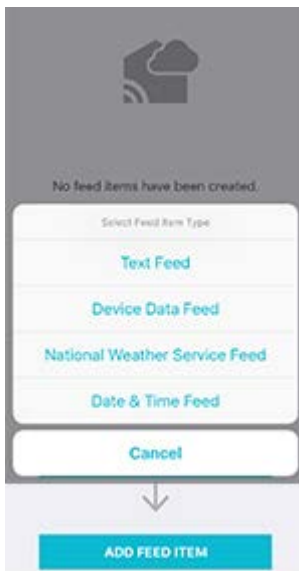
One benefit of your La Crosse View App is the ability to remote monitor multiple locations in your home by adding compatible sensors. These add-on sensors will read directly to the app. You can conveniently name each sensor and have it read to the smart box on your station.

To add a sensor that reads directly to La Crosse View:

1. Bring your add-on sensor close to station.
2. Insert batteries into sensor.
3. Open your La Crosse View app and select ADD DEVICES. Press the + button to add the sensor (device)
4. Scan the bar code on the sensor and follow instructions in La Crosse View.
5. Place sensor in appropriate location (see mounting instructions on [page 6](#))

Stream the add-on sensor (Device Data Feed) on your station:

1. Open the La Crosse View app and select your station.
2. Scroll down to the Smartbox section and press the blue icon. 
3. Follow instruction on app to add" Device Data Feed" and select your sensor.



Settings Menu C84428

When operating as a stand alone station you can manually set your station.

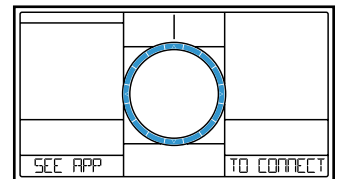
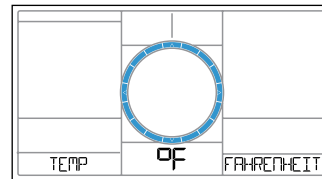
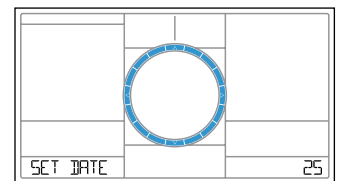
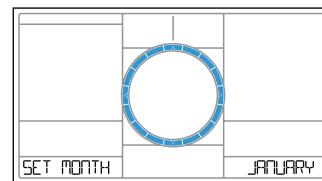
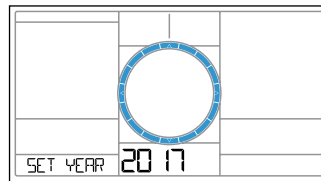
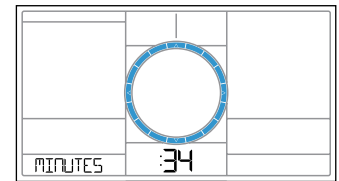
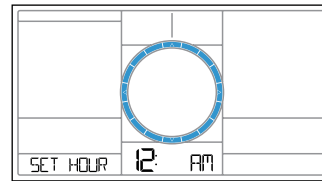
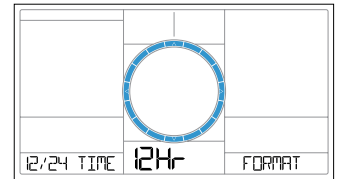
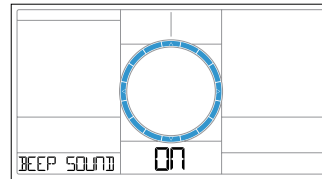
Note: When using the La Crosse View app, time and date will be set automatically.

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:

1. BEEP ON | OFF
2. 12h/24h hour format
3. Hour
4. Minutes
5. Year
6. Month
7. Date
8. Temperature Fahrenheit | Celsius



Note: SEE APP TO CONNECT will show as a reminder to connect to La Crosse View (optional).

- Press the LIGHT button to exit setting menu.

Factory Reset C84428

A Factory Reset will remove all sensor ID numbers and Wi-Fi settings and return your station to default settings.

1. Hold the RAIN and LIGHT button 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.

Your LTV-D1 Bonus Station

- As an added bonus, we have included a LTV-D1 to provide basic temperature and humidity in another room.
- Your bonus station receives information from your professional Thermo-hygro sensor

Settings Menu LTV-D1

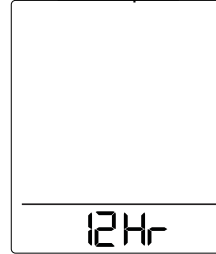
Your Bonus Station does not connect to La Crosse View and will need to be set manually:

1. Hold the SET/IN-OUT button for 3 seconds to enter setting menu
2. Press and release the +/SEARCH button to adjust settings. Hold to adjust quickly.
3. Press and release the SET/IN-OUT button to move to next item

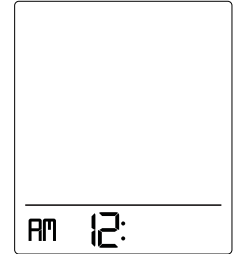
Setting order:

1. 12/24 Hour Time
2. Hour
3. Minutes
4. Fahrenheit/Celsius

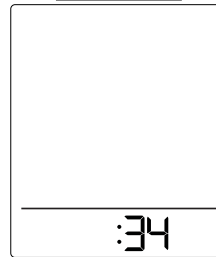
1. 12 | 24



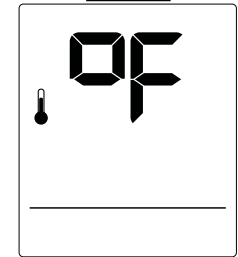
2 Hour



3. Minutes



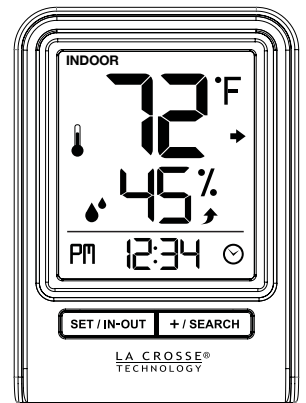
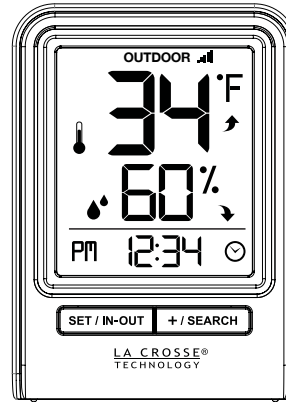
4. Fahrenheit | Celsius



View Indoor or Outdoor Data LTV-D1

Press and release the SET/IN-OUT button to switch between:

- Outdoor temperature/ humidity
- Indoor temperature/humidity readings.



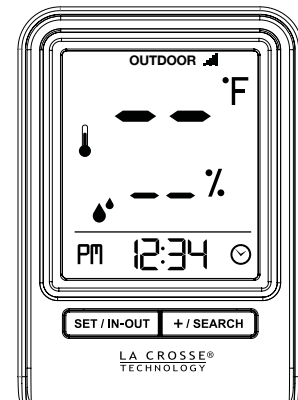
Search for Outdoor Sensor LTV-D1

In the rare event your bonus station loses connection with the Thermo-hygro sensor, the outdoor readings will show dashes.

- Simply hold the +/SEARCH button for three second to search for the sensor.
- The sensor reception icon will flash for each sensor while searching.

Restart LTV-D1

1. Remove batteries for 15 minutes.
2. Press any button 20 times.
3. Install fresh batteries.
4. Allow up to 3 minutes tor connect to Thermo-hygro sensor



Help Us, Help You!

If you have ideas for features or support solutions you'd like to see us make, please let us know! We truly want to make owning a La Crosse Technology product not only a practical experience, but also a fun one. So email us at:

store@lacrossetechnology.com

Let's Be Social!

Follow us on our social media outlets for the latest promotions, product support, and awesome giveaways.



Specifications

Indoor

Temperature Range:	32 °F to 122 °F (0 °C to 50 °C)
Humidity Range:	10% RH to 99%RH
Update Interval:	About every 60 seconds

Thermo-hygro Sensor

Temperature Range:	-40 °F to 140 °F (-40 °C to 60 °C)
Humidity Range:	10% RH to 99%RH
Update Interval:	About every 51 seconds (3 minutes if no change)
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)
Update Interval:	About every 31.5 seconds (3 minutes if no change)
Transmission Range:	Up to 400 feet (121 meters) in open air, RF 915 MHz

Rain Sensor

Rainfall Range:	0-393.6 inches (0-9999 mm)
Update Interval:	About every 45 seconds (3 minutes if no change)
Transmission Range:	Up to 400 feet (121 meters) in open air, RF 915 MHz

Wi-Fi

Transmission Range:	80 feet (24 meters) RF 2.4 GHz
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Power

C84428 Station:	5.0 Volt 500mA power cord included (Required) AC6 HX06-0500500-AU-1
Optional Battery Backup:	3-AA batteries included, backup for time and date
LTV-TH2 Thermo-hygro Sensor:	2-AA batteries included
LTV-W1 Wind Speed Sensor:	2-C batteries included
LTV-R2 Rain Sensor:	2-AA batteries included
LTV-D1 Bonus Station:	2-AAA batteries included

Battery Life

C84428 Station:	48-60 months with power cord use
LTV-TH2, LTV-W1, & LTV-R2 Sensors:	over 24 months with reputable batteries.
LTV-D1 Bonus Station:	over 12 months with reputable batteries.

Dimensions

C84428 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-TH2 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-W1 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
LTV-R2 Rain Sensor:	7.14" L x 3.43" W x 4.94" H (18.13cm L x 8.72cm W x 12.54cm H)
LTV-D1 Bonus Station:	2.64" L x 1.32" W x 3.62" H (6.7 cm L x 3.35cm W x 9.19cm H)

Care and Maintenance

- Do not mix old and new batteries.
- Do not mix Alkaline, Standard, Lithium, or Rechargeable Batteries.
- Always purchase the correct size and grade of battery most suitable for intended use.
- Replace all batteries of a set at the same time.
- Clean the battery contacts and also those of the device prior to battery installation.
- Ensure the batteries are installed with correct polarity (+ and -).
- Remove batteries from equipment when it is not used for an extended period of time.
- Promptly remove expired batteries.

Warranty and Support

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.

Before returning a product, please contact our friendly customer support with questions or visit our online help:

Phone: 1-844-200-8452

Online Product Support and Registration: www.lacrossetechnology.com/support

View full warranty details online at: www.lacrossetechnology.com/warranty_info_lt/

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

This device must not be co-located or operating in conjunction with any other antenna or transmitter.

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!

The manufacturer is not responsible for any radio or TV interference caused by unauthorized changes or modifications to this equipment. Such changes or modifications could void the user authority to operate the equipment.

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

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