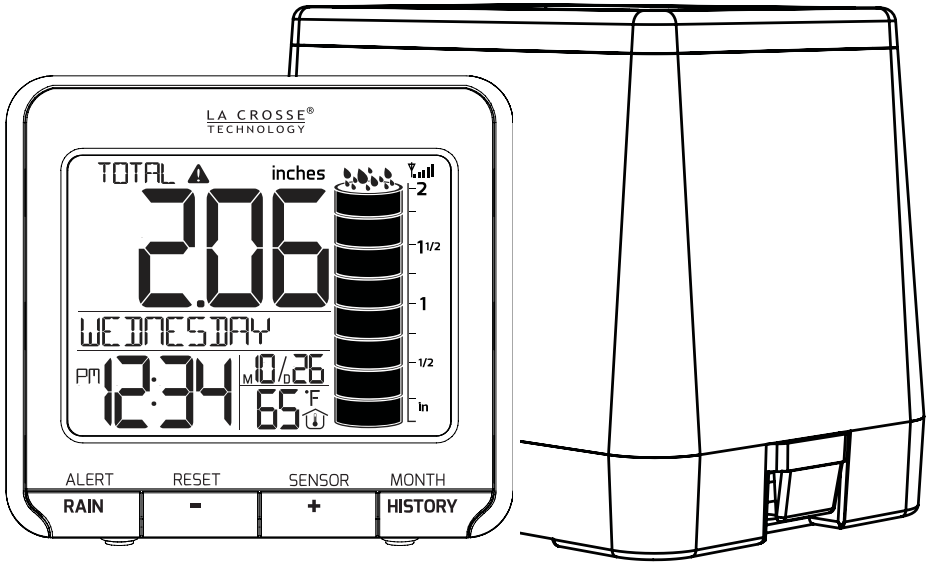


# LA CROSSE® TECHNOLOGY

## Wireless Rain Station



For online video support:  
<http://bit.ly/LaxTechTalk>

### Instructional Manual

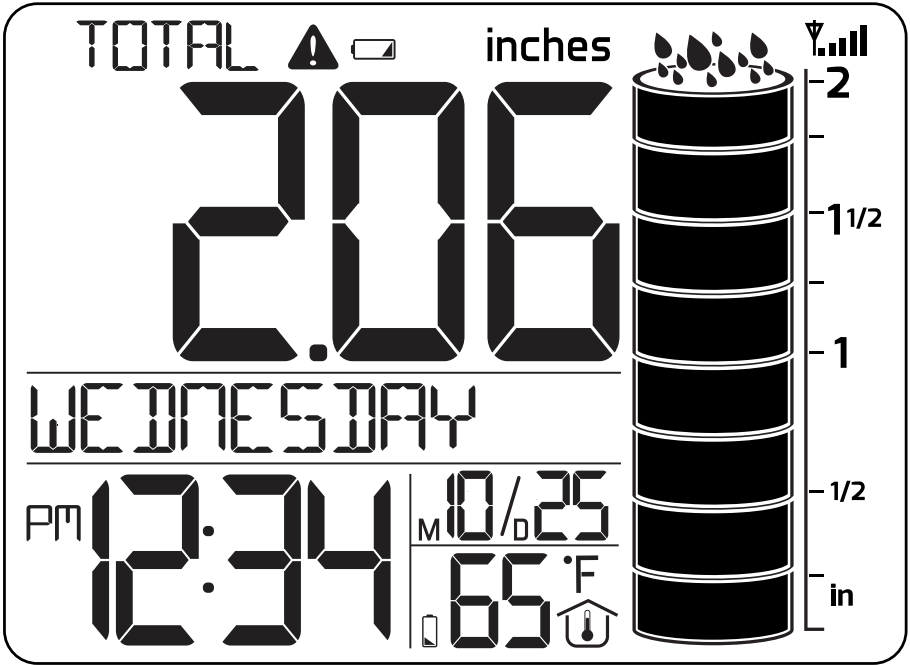
Model: 724-2310 DC:062817

Protected under U.S. Patent: D737, 320

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# LCD Features



24 Hour Rain Alert

AM PM AM | PM Selection



Low Battery Sensor

°F °C Fahrenheit | Celsius

mm inches Millimeter | Inches



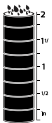
Indoor Temperature



Sensor Reception



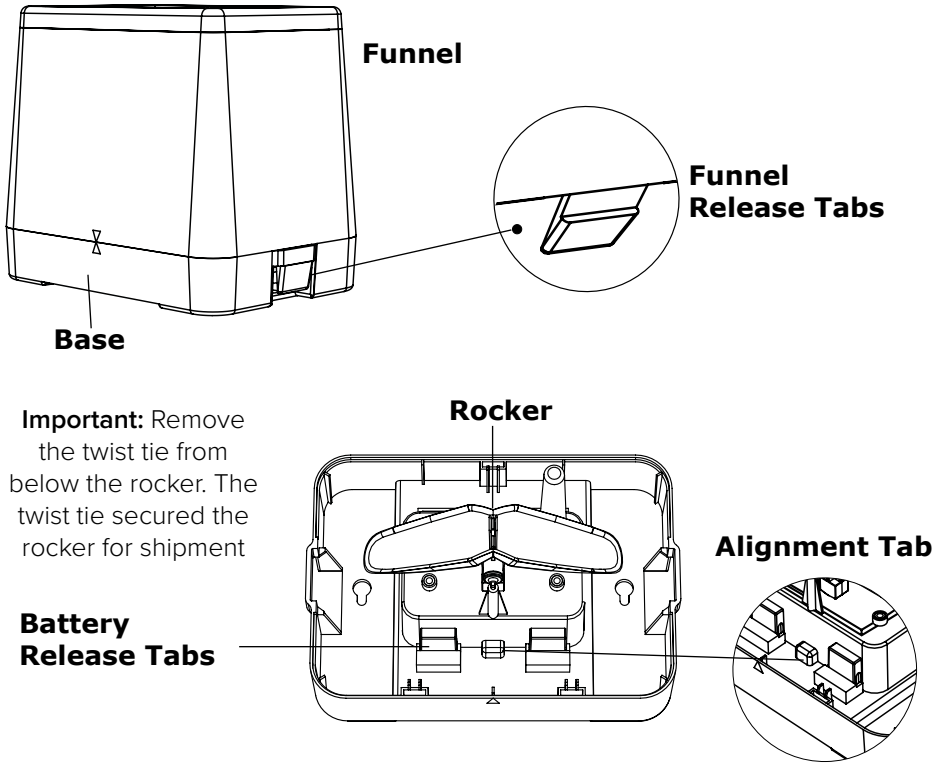
Low Battery Station



Rain Cylinder Graph

# LTV-R1 Rain Sensor

Lets identify the parts of the rain sensor.



**Important:** Remove the twist tie from below the rocker. The twist tie secured the rocker for shipment

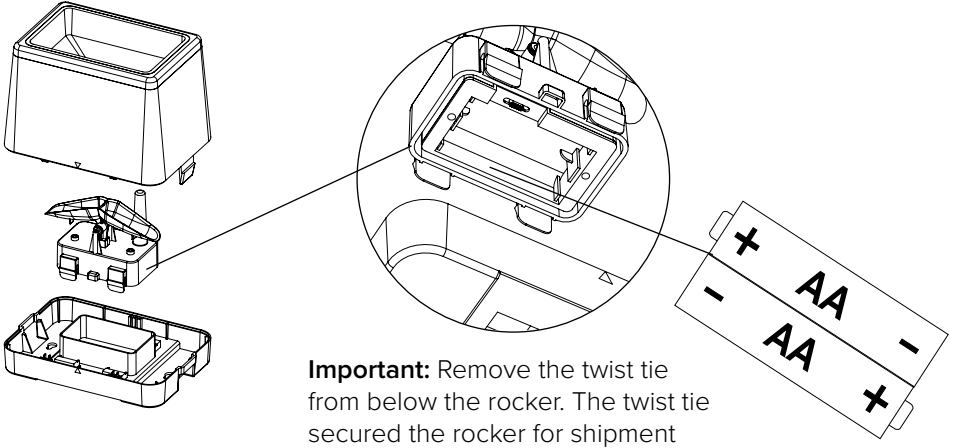
An extra piece of plastic used for repositioning the battery compartment correctly. After batteries are installed, make sure this **alignment tab** is facing the front of the Base to lock all four Battery Release Tabs back into place.

## Quick Startup Instructions

1. Insert 2 AA batteries into the rain sensor. Observe correct polarity. Remove the Twist Tie securing the rocker for shipment.
2. Insert 2 AA batteries into the rain station. Observe correct polarity.
3. Optional: Tip the rocker of the rain sensor to simulate rain and receive a reading on the rain station.
4. Leave 5-10 feet apart for 15 minutes. After 15 minutes, with station and sensor connected, move the rain sensor outside to an open area. (Position Rain Sensor-- [Page 13](#))
5. Use Setting to program the rain station.

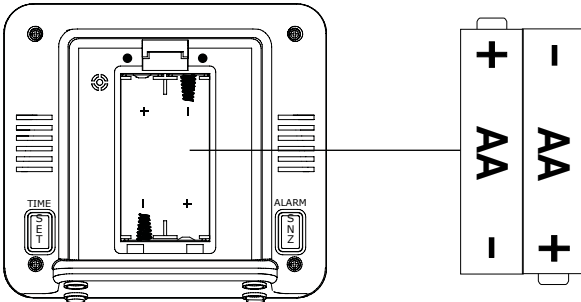
# Detailed Startup Instructions

1. Insert 2- AA batteries into the rain sensor according to polarity.
  - Press the Funnel Release Tabs on each end and lift off the funnel.
  - Pinch the four Battery Released Tabs under the rocker, to access battery compartment.

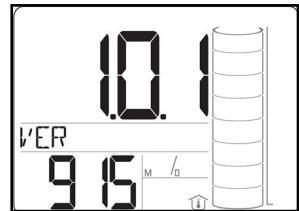


**Important:** Remove the twist tie from below the rocker. The twist tie secured the rocker for shipment

2. Insert 2- AA batteries into the rain station according to polarity.



**Note:** The station will show the software version number for two seconds after batteries are installed.



3. Allow sensor and station to sit together for 15 minutes before placing sensor outside in open area.
4. Set language, time, date etc.

# Settings

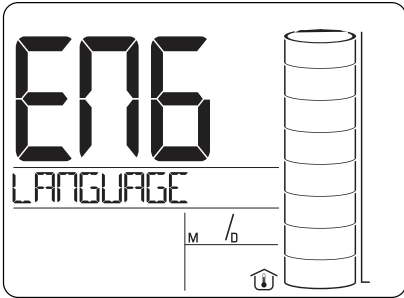
## Settings menu order:

1. Language (English, Spanish)
2. Beep ON/OFF
3. Time Format
4. Hour
5. Minute
6. Year
7. Month
8. Date
9. Unit (Inches/Millimeters of Rain)
10. Temperature Fahrenheit/Celsius

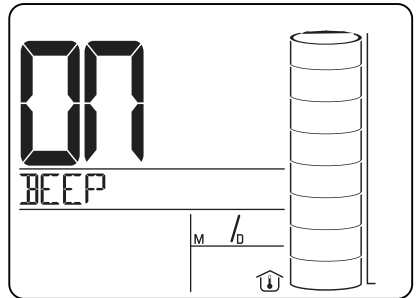
## To begin:

- Hold the SET button for 3 seconds to enter settings menu.
- Press and release the + or - button to adjust a value.
- Press and release the SET button to confirm and move to next item and to exit at the end of the settings menu.

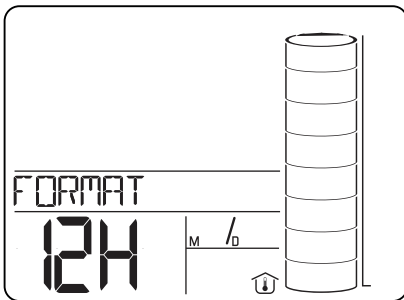
### Language English | Espanol



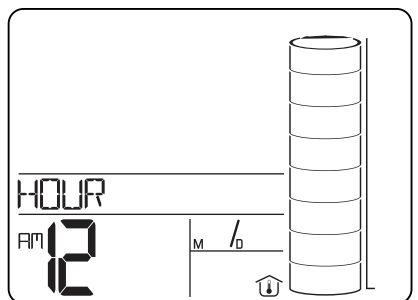
### Beep ON|OFF



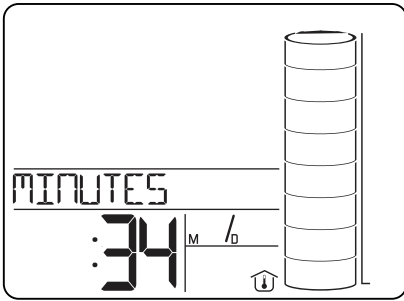
### Time Format



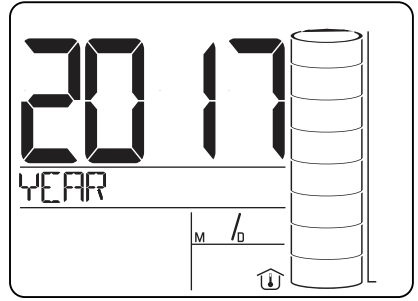
### Hour



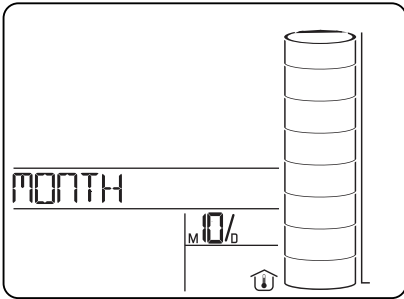
## Minutes



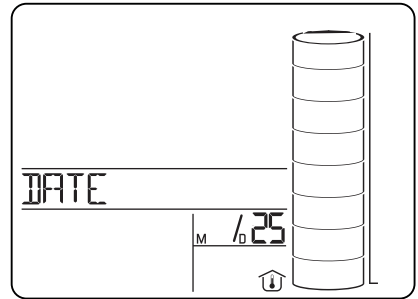
## Year



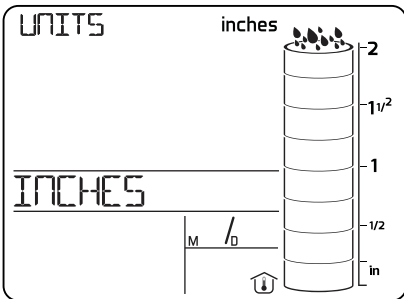
## Month



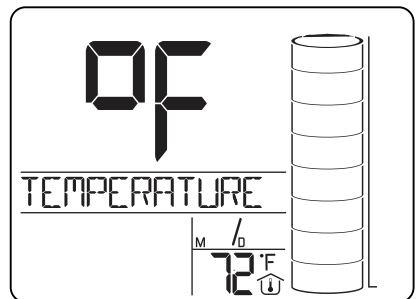
## Date



## Rain Units



## Temperature



**Note:** The weekday will adjust automatically when the year, month and date are set.

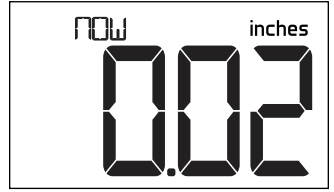
**Note:** If no buttons are pressed for 20 seconds, the station will return to normal rain display

# Current Rainfall Readings

Press and release the ALERT/RAIN button to toggle Current readings:

## NOW:

- Rain from the start of a rain event, until there is no additional rain accumulation for 30 minutes.
- Resets to zero after 30 minutes of no additional rainfall.



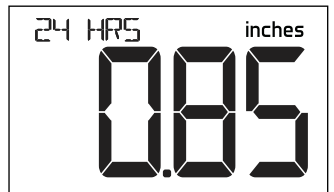
## ONE HR:

- Rainfall that has accumulated during the past one hour period.
- Example: If current time is 6:49, 1HR rain is accumulated total between 5:50 to 6:49.



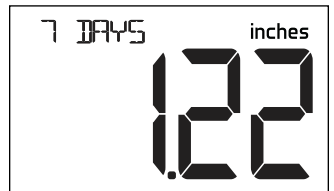
## 24HR:

- Rainfall based on past 24 hours of time.
- At each full hour, 1HR is recorded.
- This is a running total.



## 7 DAYS:

- Rainfall of last 7 consecutive 24HR readings.
- Updates each day at 12am (midnight).
- Not subject to the calendar.
- Be sure time is set.



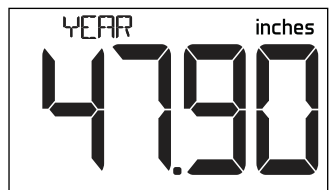
## MONTH:

- Current Month. Ex: January 1-31.
- Current days rainfall added to month at 12am (midnight).
- Resets the first day of the month



## YEAR:

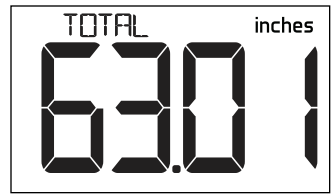
- Past 12 months rain accumulated total.
- This is a running total.
- Example: If current month is May 2018, the Year setting will show the total rain accumulation from June 2017 - May 2018.





## TOTAL:

- Total rainfall since station was powered on or reset.



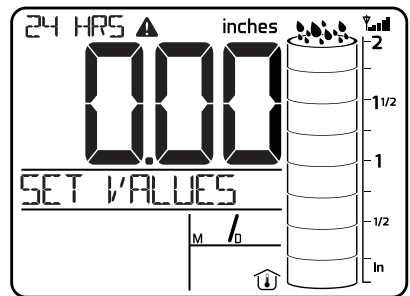
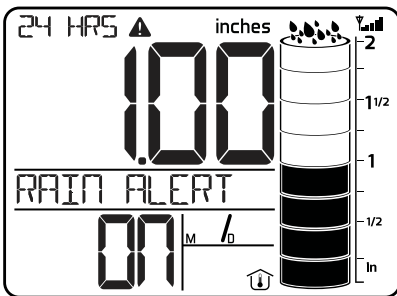
**Note:** As time passes without rain, the 1 hour, 24 hour, and 7 day rain totals will count down to zero.

## Reset Current Rain Readings

- Hold the RESET button for 5 seconds to reset all current rainfall readings at the same time.
- All current rainfall reading s will be set to 0.00.
- This is useful if you accidentally added a rain reading when positioning the sensor.

## 24-Hour Rainfall Alert

1. Hold the ALERT/RAIN button 3 seconds to set 24 hr rain alerts
2. The RAIN ALERT and ON/OFF will appear. Press and release the + or - button to turn ON/OFF.
3. Press the ALERT/RAIN button to confirm and select the rain alert value.
4. The rain alert value and SET VALUE will show. Press and release the + or - button to adjust the alert value.
5. Press the ALERT/RAIN button to confirm and exit.



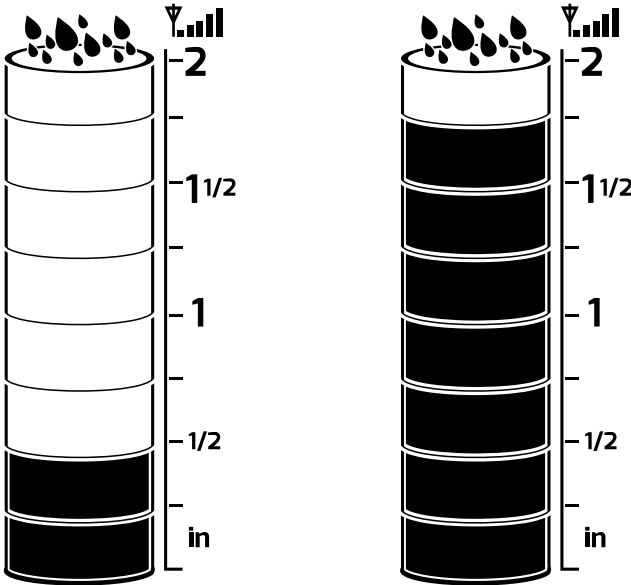
- When armed alert value is reached, station will beep 5 times, once per minute, until out of alert range.
- The flashing alert icon will indicate alert.
- Press any button to stop the temp alert sound. The alert icon will flash while value is in alert range.

## Deactivate Alert

1. Hold the ALERT/RAIN button 3 seconds to view alert.
2. Use the + or - button to turn alert OFF.

## Rain Cylinder Graph

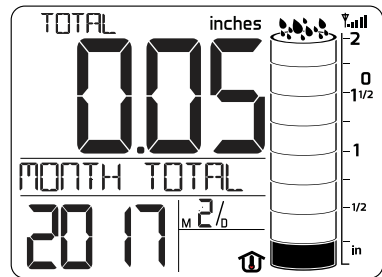
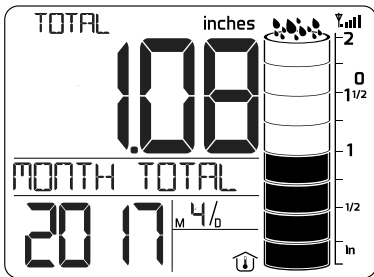
- The cylinder graph is a visual representation of rain readings.
- The graph will change appearance according to rain reading you are viewing.
- When rainfall exceeds 2 inches, the graph remains at full.



# Rainfall History: by Month

View up to 12 months of past rainfall totals, one month at a time.

1. Press and release the MONTH/HISTORY button to view rainfall history by the month.
2. Use the + or - button to toggle thru individual months. The rainfall total for the selected month will display.
3. Press the MONTH/HISTORY button to exit history mode.



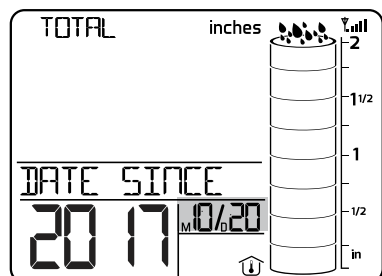
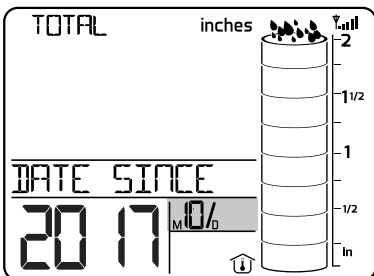
# Reset History by Month

- While viewing History by the Month, hold the RESET button for 5 seconds to reset that month's history to "---".

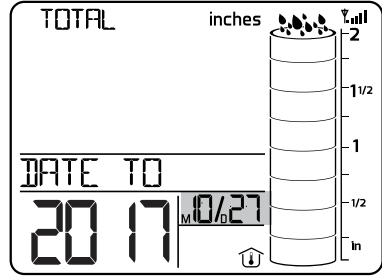
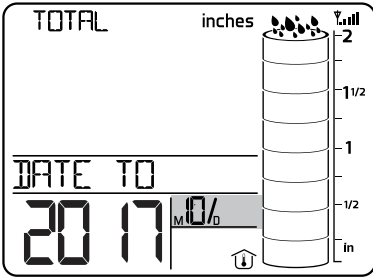
# Rainfall History: by Date Range

View rainfall by selected date range.

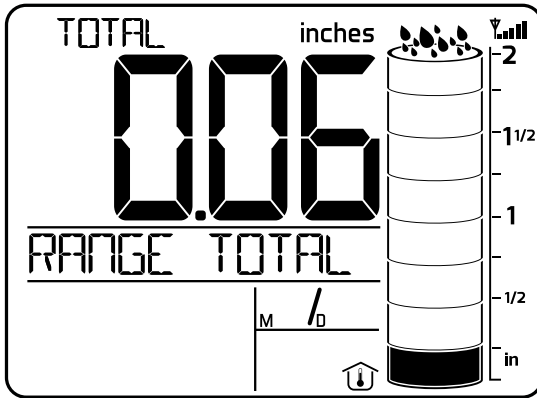
1. Hold the FIND/DATA button for 3 seconds to select rain history total.
2. DATE SINCE will display. Use the + or - button to select the starting **month**.
3. Press and release the FIND/DATA button to move to starting date. Use the + or - button to select a starting **date**.



4. Press and release the FIND/DATA button to select ending month and date.
5. DATE TO will display. Use the + or - button to select a ending **month**.
6. Press and release the FIND/DATA button to move to ending date. Use the + or - button to select a ending **date**.



7. Press and release the FIND/DATA button to view the total rainfall (RANGE TOTAL) for the selected date range.



8. Hold the FIND/DATA button for 3 seconds to exit History mode.

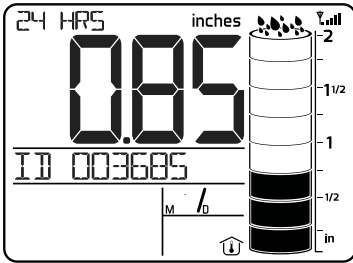
**Note:** If not buttons are press for 20 seconds the station will return to normal rain display.

## Change Batteries

- It is recommended to change batteries in the rain station and rain sensor at the same time.
1. Replace batteries in the rain sensor and in the rain station.
  2. Press the SENSOR button to view ID then hold the SENSOR button for 3 seconds to search for rain sensor.

# Search for Rain Sensor

- Press and release the SENSOR button to view the sensor ID for up to 20 seconds.
- While viewing ID, hold the SENSOR button for 3 seconds to search for the rain sensor.
- The sensor reception icon will animate until the sensor signal is received, or for 3 minutes, if there is no signal available.



- If the station loses connection with the sensor for more than 10 minutes, it will automatically begin searching for the lost sensor for 2 minutes.
- If the station hasn't received the sensor's signal after 30 minutes, it will again perform a search, this time for 3 minutes."
- If the station still hasn't received the sensor's signal after 60 minutes, it will perform another 3 minute search, and then continued 3 minutes searches every 30 minutes after that until the reception is found.

## Factory Restart

A Factory Restart returns the station to its default settings (erases history) and to "out of the box" condition.

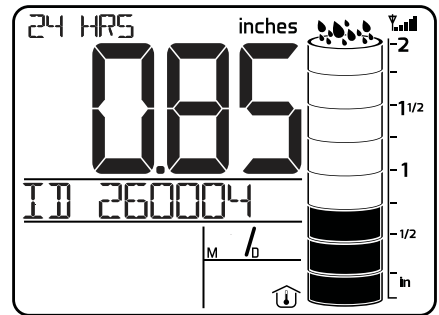
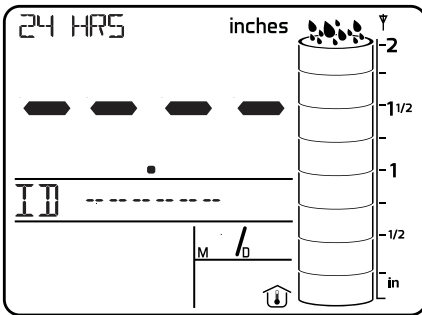
1. Be sure you have fresh batteries in sensor and station.
2. Bring the sensor within 15 feet of the station.
3. Hold the SENSOR and RESET buttons together for 5 seconds to reset the station.
4. Keep sensor close to station for 15 minutes, to sync properly.
5. After 15 minutes, return the sensor to its outdoor location.

# Replace Sensor

In the event your sensor is damaged and needs to be replaced, you will need to delete the existing sensor's ID in order to add the replacement sensor.

1. Press the SENSOR button to view sensor ID.
2. Hold the RESET button for 5 seconds to delete the old sensor's ID.
3. Install batteries in replacement sensor.
4. Press and release the SENSOR button to view sensor area (ID will show dashes).
5. Hold the SENSOR button 3 seconds to search. When sensor connects, the new sensor ID and the readings will show.

**Note:** All rain readings should still be on the station.



# Position Rain Sensor

1. Mount in an open area for a more accurate rain count.
2. Install the Rain sensor on a level platform that is stationary.
3. Insert one, two, or three mounting screws (not included) through the holes in the base of the rain sensor.
4. Ideally, the rain sensor should be mounted at least 6 ft in the air and have a direct line of sight to the display.
5. The 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 300 feet (91 meters) in open air, not including walls or floors.
7. For video instruction, please visit:  
[http://bit.ly/Rain\\_SensorMounting](http://bit.ly/Rain_SensorMounting)

# Position Rain Station

The station has a built-in base that allows it to easily stand on its own. Perfect for any desk or table.

# Visit Us on Social Media



Latest video content

[http://bit.ly/LaxTech\\_YouTube](http://bit.ly/LaxTech_YouTube)



For personalized interaction

[http://bit.ly/LaxTech\\_Facebook](http://bit.ly/LaxTech_Facebook)



Join the conversation

[http://bit.ly/LaxTech\\_Twitter](http://bit.ly/LaxTech_Twitter)



Pin and share

[http://bit.ly/LaxTech\\_Pinterest](http://bit.ly/LaxTech_Pinterest)

## Specifications

### Indoor

**Temperature Range**

32°F to 122°F (0°C to 50°C)

**Update Interval**

About every 48 seconds

### Rain

**Rain Reading**

Up to 393.6 inches (9999 mm)

**Transmission Range**

Distance: Over 330ft. (100 meters)  
RF 915MHz (open air)

### Power

**Rain Station**

2-AA, IEC, LR6 batteries (not included)

**LTV-R1 Rain Sensor**

2-AA, IEC, LR6 batteries (not included)

### Battery Life

**Station and Sensor**

over 12 months when using reputable brands

### Dimensions

**Rain Station**

4.27" L x 1.48" W x 3.88" H  
(108 x 38 x 99 mm)

**LTV-R1 Rain Sensor**

6.00" L x 5.10" W x 4.21" H  
(152 x 130 x 107mm)

# 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: 1-608-782-1610

Online Product Support and Registration: [www.lacrosstechnology.com/support](http://www.lacrosstechnology.com/support)

View full warranty details online at: [www.lacrosstechnology.com/warranty\\_info.pdf](http://www.lacrosstechnology.com/warranty_info.pdf)

# 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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