LA CROSSE®
TECHNOLOGY

Model: 308A-146
Instruction Manual
DC: 072314

WIRELESS COLOR FORECAST STATION

Snooze/Light button

Forecast icons:
Sunny
Partly Sunny
Cloudy
Rainy
Stormy
(All icons are shown in this illustration)

Time

Date

Week Day

Outdoor readings:
Temperature
Humidity
Heat Index
Dew Point
MIN/MAX

Indoor readings:
Temperature
Humidity
Heat Index
Dew Point
MIN/MAX

Heat Index

Dew Point

SENSOR TX-142THv2

LED

TX

Sensor Battery Compartment 2 "AA"
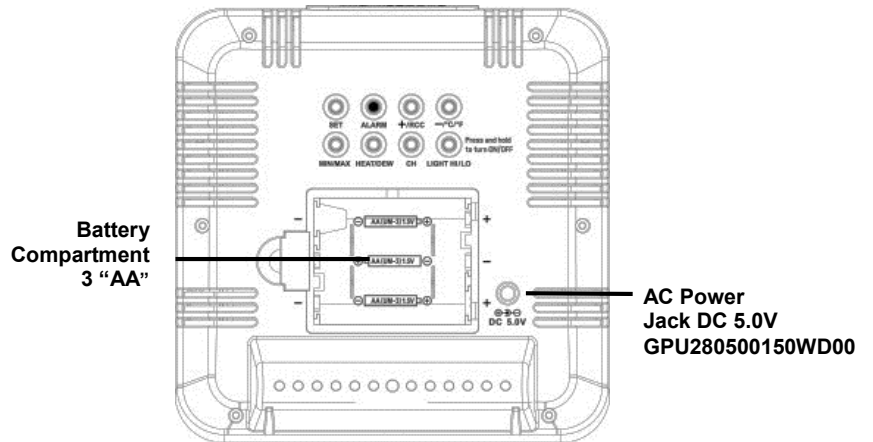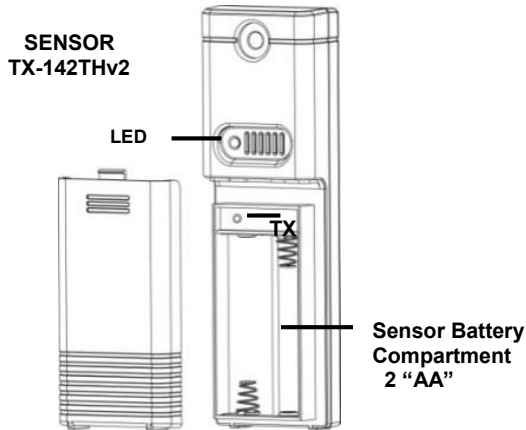
Battery Compartment 3 "AA"

AC Power Jack DC 5.0V GPU280500150WD00

Quick Setup

Step 1: Insert the 5 volt AC cord (included) into the wall outlet then into the weather station.
Step 2: Insert the 3 *new* AA Alkaline batteries (not included) into the forecast station. Observe the correct polarity.
Step 3: Insert the 2 *new* AA batteries (not included) into the TX142THv2 outdoor sensor. Observe the correct polarity. The red LED will flash during transmission.

Restart: If the outdoor temperature is not displayed after 3 minutes, unplug the AC adapter and remove batteries from the forecast station & sensor and press any button 20 times. After 15 minutes return to **Step 1** above.

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Introduction

La Crosse Technology® introduces a Wireless Color Forecast Station with precise, real-time backyard weather. Animated color forecasts with trends react to changing barometric pressure. Measure in/out temperature and humidity with daily min/max records -- all on one easy-to-read color display with adjustable brightness.

Features

- 12/24 hour time with snooze alarm and alarm icon
- Calendar display: month, day, date
- Heat index and dew point
- Color forecast: sunny, partly sunny, cloudy, rainy and stormy
- 12 hour forecast based on changing barometric pressure
- IN / OUT temperature (°F / °C)
- IN / OUT humidity (%RH)
- MIN / MAX records (24-hour readings)
- Light up the Forecast Station with a press of a button using battery power OR continuous light using the AC adapter with ON / OFF option
- LCD light dimmer for nighttime use
- Low battery icon for Forecast Station and sensor
- Sits on desktop or tabletop
- 3 "AA" Alkaline batteries (not included) OR optional 5.0V AC adapter (included)

## Detailed Setup: Forecast Station and Outdoor Sensor

STEP 1:
- Insert the 5-volt A/C power adapter into the designated area on the back of the forecast station.
- Plug the A/C power adapter into a wall outlet for continuous backlight (ON/OFF), and dimmer feature.
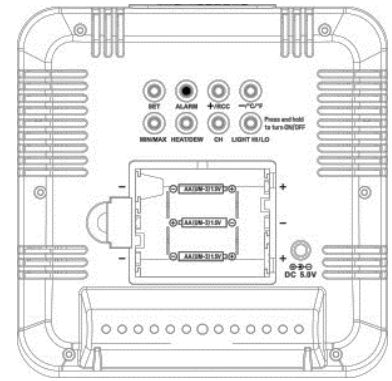
STEP 2: (optional battery operation)
- Slide tab to the right and pull out to remove the battery cover.
- Insert three new AA Alkaline batteries into the back of the forecast station. Observe the correct polarity (see marking inside the battery compartment).
- The forecast station will light up and show indoor temperature, humidity and time.
- (Backlight will illuminate for 8 seconds when using only battery power with a press/release of the SNOOZE/LIGHT button)
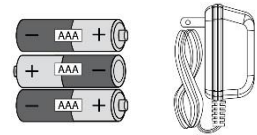
STEP 3:
- Ensure that the sensor is within 10 feet of the forecast station.
- Remove battery cover from sensor. Slide the battery cover down and lift off the front.
- Insert two new AA batteries into the TX142THv2 sensor. Observe the correct polarity.
- Within three minutes, the forecast station will show readings in the outdoor temperature area on the LCD.
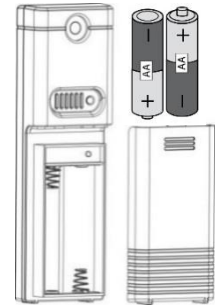
Note: Use Alkaline batteries (or Lithium for temperatures below -20°F/-28.8°C).

Button Functions

SET Button

Default Time Display-
- Press to move through the program menu and confirm settings.
- Hold for 3 seconds to set time/calendar, etc.
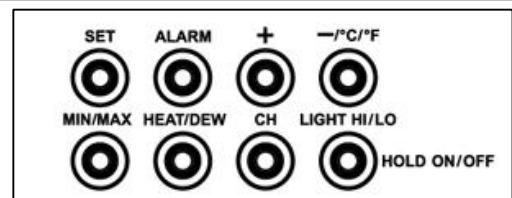
ALARM Button

Default Time Display-
- Press once to show alarm time
- Hold for 2 seconds enter alarm setting mode

Alarm Mode-
- Press to activate or deactivate time alarm.

LIGHT/SNOOZE Button (on top)

Default Time Display-
- Press to activate the backlight for 10 seconds.

Time Alarm-
- Press to activate the snooze function when alarming

+ (PLUS) Button

Setting-
- Press to increase the values during setting.
- Hold 2 seconds to quickly adjust values.

-/°C/°F Button

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

Default Time Display-
- Press to switch from Fahrenheit to Celsius temperature readings.

MIN/MAX Button

Default Time Display-
- Press once to view MAX values then MIN values.
- Hold for 2 seconds to reset all MIN/MAX values.

HEAT/DEW button

Default Time Display-
- Press once to view Heat Index.
- Press twice to view Dew Point.

CH Button

Default Time Display-
- Press to switch channels if using more than one outdoor sensor.
- Hold to search for outdoor sensors.

Light HI/LO Hold ON/OFF Button

Default Time Display-
- Press to change the LCD backlight brightness. HI/LO
- Hold to turn backlight OFF or ON
- Press to activate backlight for 10 seconds.(without adaptor)

Set Time, Date, Temperature Unit

1. Hold the **SET** button to enter time set mode.
2. Press the **+** or **-/°C/°F** buttons to adjust the values.
3. Hold the **+** or **-/°C/°F** buttons to quickly adjust the values.
4. Press the **SET** button to confirm adjustments and move to the next item.

Time Set Order:
1. 12/24 hour time format
2. Hour
3. Minutes
4. Year
5. Month
6. Date
7. Fahrenheit/Celsius

Note: the day of the week will set automatically when the year, month and date are set.

Press the **SET** button to exit, or wait 20 seconds without pressing buttons to return to the normal time display.

12-hour or 24-hour Time Format

The Time may be displayed in 12-hour or 24-hour format. Default is 12-hour time.
Note: When in 12-hour format AM or PM will show in front of the hour.

1. 12H will flash.
2. Press and release the **+** or **-/°C/°F** button to select 24-hour time.
3. Confirm with the **SET** button and move to Set Time.

Set Time

To set the time manually:

1. The hour digit will flash.
2. Press and release the **+** or **-/°C/°F** button to select the hour.
3. Press and release the **SET** button to set the minutes.
4. The minute's digit will flash.
5. Press and release the **+** or **-/°C/°F** button to select the minutes.
6. Confirm with the **SET** button and move to Set Calendar.

Set Calendar

The date default is 1. 1. 2010.

To set the calendar:

1. The year will flash.
2. Press and release the **+** or **-/°C/°F** button to set the year (2010-2039).
3. Press the **SET** button again to confirm and to enter the month setting.
4. The month will flash.
5. Press and release the **+** or **-/°C/°F** button to set the month.
6. Press the **SET** button again to confirm and enter the date setting.
7. The date will flash.

8. Press and release the **+** or **-/°C/°F** button to set the date.
9. Confirm all calendar settings with the SET button to confirm and exit the program menu.

Note: The day of the week will set automatically once the year, month and date are set.

Fahrenheit/Celsius

1. Press and release the **-/°C/°F** button once to switch from Fahrenheit to Celsius.

Time Alarm Set

Hold the **ALARM** button for 5 seconds to enter the alarm time set mode.
1. The alarm hour digit will flash.
2. Press and release the **+** or **-/°C/°F** button to select the hour.
3. Press and release the **SET** button to set the minutes. The minute digits will flash.
4. Press and release the **+** or **-/°C/°F** button to select the minutes.
5. Confirm with the SET button and exit.
6. The alarm icon will show above the minutes indicating the alarm is active.
7. The alarm icon will flash when the alarm is sounding.
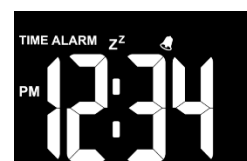
Deactivate Alarm

1. Press and release the **ALARM** button once to show alarm time.
2. Press and release the **ALARM** button to deactivate the Alarm.
3. The bell icon will disappear indicating the alarm is no longer active.

Snooze

1. When the alarm sounds, press the SNOOZE/LIGHT button to trigger snooze alarm for 10 minutes. The snooze icon Zz will flash when the snooze feature is active.
2. To stop alarm for one day, press ALARM button, while in snooze mode. The alarm icon will remain solid.
   Note: When the alarm sounds, it continues for 2 minutes, then shuts off completely.

Adjust Backlight (HI-LOW-OFF)

The backlight can show continuously when operating the forecast station with the 5-volt a/c adapter.

1. HIGH: The backlight is defaulted to HI (brightness) when the a/c adapter is in use.
2. LO: Press and release the **LIGHT HI/LO** button to dim the brightness of the backlight.
3. Press and release the **LIGHT HI/LO** button again to return to full strength (HIGH).

Note: When the Adapter is NOT in use, the High/Low backlight feature is not available.

1. OFF: Hold the **HOLD ON/OFF** button for 5 seconds, until the station beeps, to turn the backlight off to sleep.
2. ON: Hold the **HOLD ON/OFF** button again until the station beeps, to turn the backlight on.

Note: When the backlight is off, press any button to activate the backlight for 8 seconds, and then it will turn off again.

Heat Index/Dew Point

The **HEAT/DEW** button toggles between Heat Index, Dew Point. Each feature will display for 10 seconds then return to default display if the button is not pressed again.

Heat Index

Heat Index combines the effects of heat and humidity. It is the apparent temperature of how hot it feels to a human being. When relative humidity increases, the air feels warmer than it actually is because your body is less able to cool effectively by evaporation of perspiration.

Note: Heat index will be the same number as the temperature until the temperature is above 80 degrees °F (26.7°C).

View Heat Index: From a normal display press the HEAT/DEW button once and the Heat Index will show (indoor/outdoor) instead of the ambient temperature. The words Heat Index will show near the indoor and outdoor temperatures.

Dew Point Temperature

Dew point is the saturation point of the air, or the temperature to which the air has to be cooled in order to create condensation. The higher the dew points, the higher the moisture content of the air at a given temperature. Dew Point Temperature is the absolute measure of the moisture in the air at a given temperature. Relative humidity is the relative measure of moisture in the air at a certain temperature.

Note: Dew Point is lower than the actual temperature.

View Dew Point: From a normal display press the HEAT/DEW button twice and the Dew Point temperature will show (indoor/outdoor) instead of the ambient temperature. The words Dew Point will show near the indoor and outdoor temperatures.

Outdoor Temperature/Humidity flashing

- **Low battery icon present**: Change batteries in the sensor, and then hold the **CH** button until the station beeps to search for the outdoor sensor again.

- **End of Transmission Range**: Move the sensor closer to the forecast station. Avoid obstructions in the signal path. Keep sensor and forecast station away from electronics.

Use Multiple Outdoor Sensors

The forecast station will accommodate up to three outdoor sensors (TX142THv2). The channel selection (CH) button allows you to easily see the temperature in various locations: outdoors, baby's room, greenhouse, basement, etc.

To connect multiple outdoor sensors to the forecast station:
1. Remove the battery cover from all the sensors (Leave battery covers off until all sensors are received by the forecast station).
2. Set the first outdoor sensor to Channel 1 and insert 2-AA batteries.

3. Set the second outdoor sensor to Channel 2 and insert 2-AA batteries.
4. Set the third outdoor sensor to Channel 3 and insert 2-AA batteries.
5. Press and hold **CH** button on the forecast station until a beep sounds. The forecast station will search for all outdoor sensors.
6. Press the **TX** button on the back of each outdoor sensor to transmit RF signal.
7. When RF connection is established, the respective temperature & humidity for each of the selected channels will appear on the main unit.
8. Allow the sensors and the forecast station to stay 5-10 feet apart for 15 minutes to establish a solid connection.
9. Install the battery covers on each sensor.
10. After 15 minutes place the outdoor sensors in appropriate locations (see "position the outdoor sensor").

Press and release the **CH** button to view channel 1, 2 or 3 on the forecast station when multiple sensors are used.

Note: You cannot change channels if only one sensor is connected.

Channel Scroll (AUTO)

Press and release the **CH** button until the word AUTO appears in the outdoor data area. The forecast station will automatically rotate through the channels for all connected sensors.

Press and release the **CH** button to lock the forecast station into one channel. Then view channels individually with a press of the **CH** button.

MIN/MAX (View, Reset)

This forecast station features daily minimum and maximum temperatures each day starting at midnight (12:00 AM). The forecast station automatically resets the min/max temperatures at midnight (12:00 AM).

View MIN/MAX

- MAX: From a normal display press and release the MIN/MAX button once to view maximum temperature and humidity values for Indoor and Outdoor data. The word MAX will appear next to the indoor and outdoor temperature.
- MIN: From a normal display press and release the MIN/MAX button twice to view minimum temperature and humidity values for Indoor or Outdoor data. The word MIN will appear next to the indoor and outdoor temperature.

Reset MIN/MAX

Hold the MIN/MAX button for 5 seconds to manually reset all indoor and outdoor minimum and maximum values. (The forecast station automatically resets the min/max temperatures at midnight: 12:00 AM).

Low Battery icon

Low battery icon for forecast station or outdoor sensor.
- If the icon is displayed in the Outdoor Temperature section, replace batteries in the outdoor sensor.
- If the icon is displayed in the Indoor Temperature section, replace batteries in the forecast station.

Animated Color Forecast Icons

Animated forecast icons use changing atmospheric pressure to predict weather conditions for the next 12-hours with 70-75% accuracy.

INTELLIGENT WEATHER FORECAST
This station learns; please allow 3 to 4 weeks for barometric calibration. This will ensure an accurate personal forecast for your location.

SUNNY	PARTLY CLOUDY	CLOUDY	RAINY	STORMY

- The forecast station samples the barometric pressure every twelve minutes.
- These samples are averaged hourly and daily then stored in nonvolatile memory.
- The three hour pressure icon change is based off of the last four average hourly readings.

IMPORTANT: As the forecast station builds memory, it will compare the current average pressure to the past forty day average pressure for increased accuracy. The longer the forecast station operates in one location, the more accurate the forecast icons will be.

Outdoor Sensor Positioning and Use

- Mount the outdoor sensor on a north-facing wall or in any well shaded area. Under an eave or deck rail is preferred.
- The maximum wireless transmission range to the forecast station is over 300 feet (91 meters) in open air, not including walls or floors.
- Be sure the outdoor sensor is mounted vertically.

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 correctly with regard to polarity (+and -).
- Remove batteries from equipment with is not to be used for an extended period.
- Remove expired batteries promptly.
- Do not expose to extreme temperature, vibration or shock.
- Clean with a soft damp cloth. Do not use solvents or scouring agents.
- The product is not a toy. Keep it out of reach of children.
- The product is not to be used for medical purpose or for public information. It is intended for home use only.
- The specs of this product may change without prior notice.
- Improper use or unauthorized opening of housing voids warranty.
- If the product is not working properly, change the batteries and/or check the AC cord connection.

Specifications

Indoor	
Temperature Range:	+32°F to +122°F (0°C to 50°C)
Humidity Range:	1%-99% (RH)
Outdoor	
Temperature Range:	-40°F to 140°F (-40°C to 60°C)
	Use Alkaline batteries in outdoor sensor: -20°F to 140°F (-20°C to 60°C) Switch to Lithium batteries in outdoor sensor if temperature drops below -20°F (-28.8°C)
Humidity Range:	1%-99% (RH)
Distance:	Over 300 ft. (91 meters) RF 433MHz (open air)
Power Requirements	
Forecast Station:	5-volt AC power adapter (included) Optional 3-AA, IEC, LR batteries (not included)
TX142THv2 Outdoor Sensor:	2-AA, IEC, LR6 batteries (not included)
Battery Life	
Forecast Station:	Battery life is over 12 months when using the AC adapter for primary power
TX142THv2 Outdoor Sensor:	Battery life is over 24 months when using reputable battery brands for both Alkaline and Lithium batteries
Dimensions	
Forecast Station:	6.3" L x 2.75" W x 4.25" H (160 x 70 x 108 mm)
TX142THv2 Outdoor Sensor:	1.74"L x 0.81"W x 5.1"H (44.2 x 20.5 x 130mm)

Warranty Information

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.

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

For warranty work, technical support or other information contact:
La Crosse Technology, Ltd
2830 South 26th St.
La Crosse, WI 54601

Contact Support: 608-782-1610
Product Registration:
www.lacrossetechnology.com/support/register

Online Product Support:
www.lacrossetechnology.com/support

Protected under U.S. Patents:
5,978,738
6,076,044
RE43903

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 sensor. **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 modifications to this equipment. Such modifications could void the user authority to operate the equipment.