LA CROSSE®
TECHNOLOGY

Color Weather Forecast Station

Instructional Manual
Model: S85814 DC:072216

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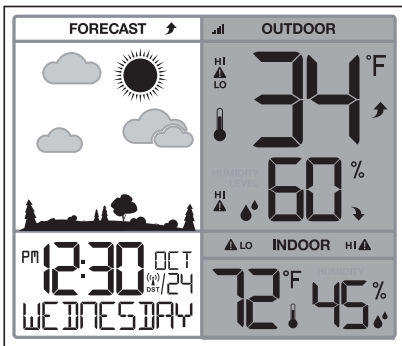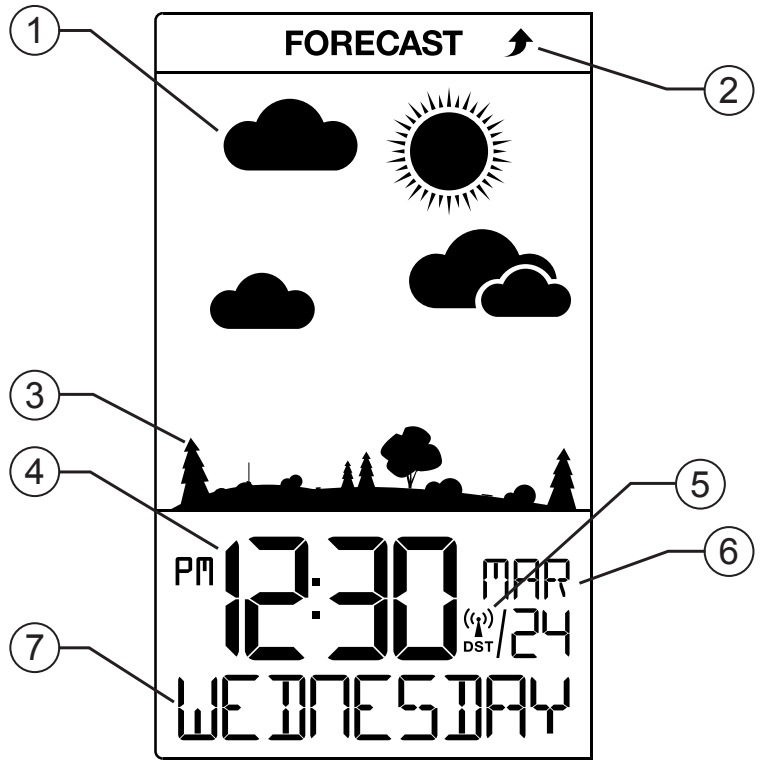
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Buttons

ALERTS	TEMP	SEARCH	+	−	SET	LIGHT
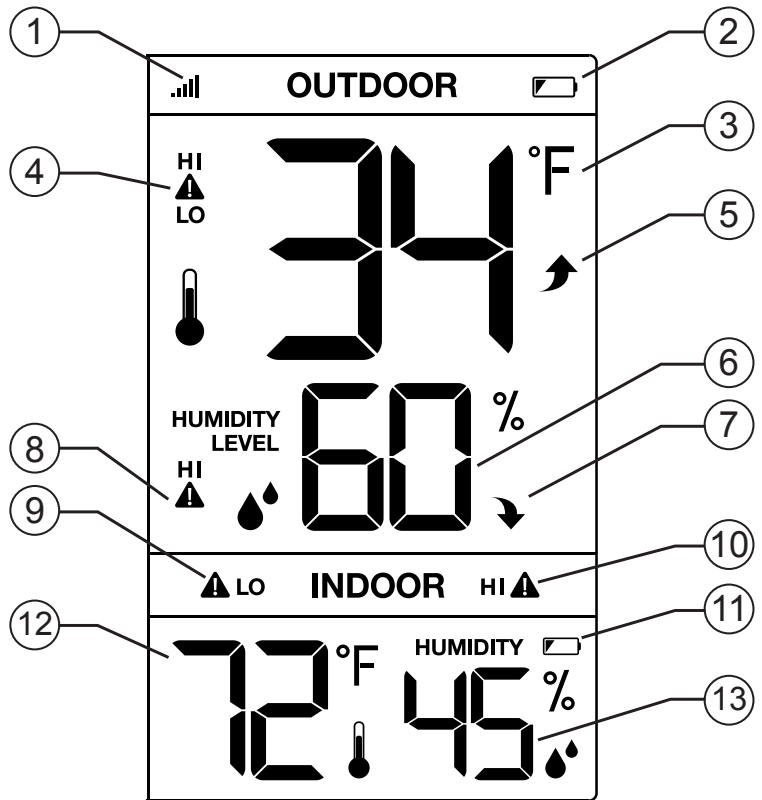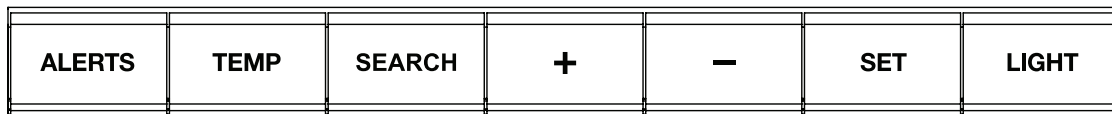
Note: Buttons are located on the top of the display

Quick Setup

1. **Power up.** Insert 2-AA batteries into the outdoor sensor and then plug the power cable into the display
2. **Configure basic settings.** Set Time, Date etc.
3. **Place outdoor sensor** in a shaded location after 5 minutes.

Optional: insert 3-AA batteries into the weather station.
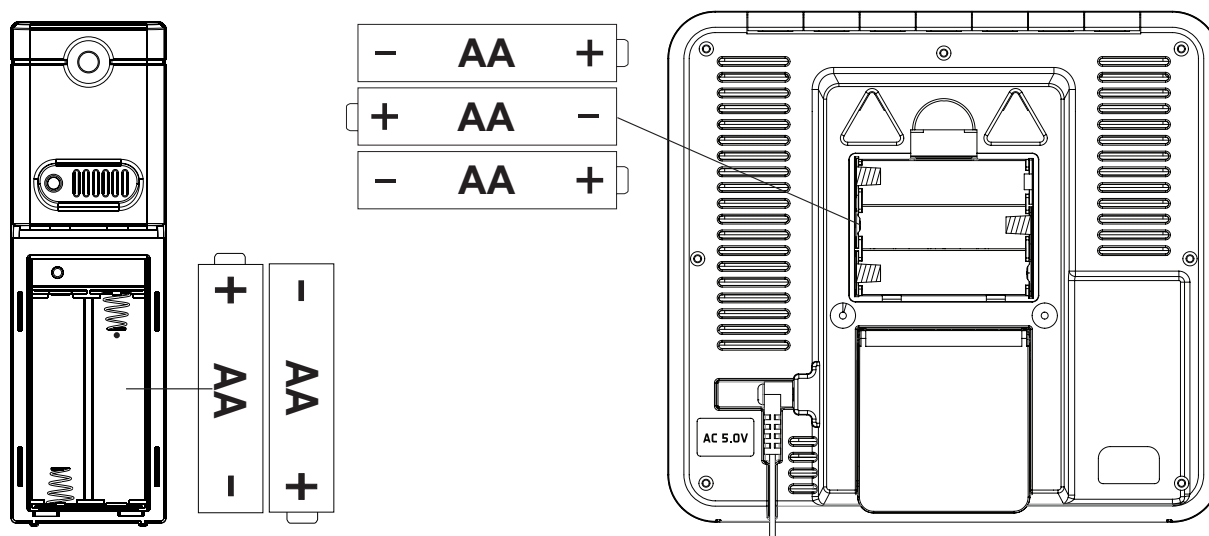
Note: Batteries are not included

Settings

1. Hold the **SET** button for 3 seconds to enter time set mode.
2. Press and release the **+** or **-** buttons to adjust the values. Hold to adjust quickly.
3. Press and release the **SET** button to confirm and move to the next item.

Note: Press and release the LIGHT button any time to exit settings.
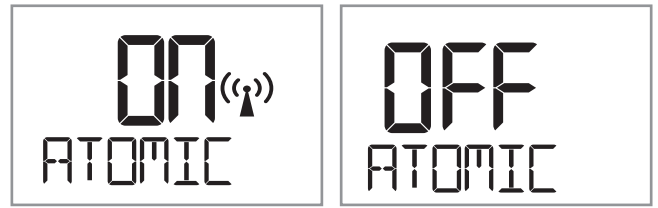
Settings order:

1. Beep
2. Atomic Time
3. Time Zone
4. Daylight Savings Time
5. 12 | 24 Hour Time
6. Hours
7. Minutes
8. Year
9. Month
10. Date
11. Fahrenheit/Celsius

To begin: Hold the **SET** button 3 seconds, then release:

1. Beep

ON BEEP   **OFF** BEEP

2. Atomic Time

ON ATOMIC   **OFF** ATOMIC

Note: If Atomic OFF is selected, you will move directly to the 12/24 hour time.

3. Time Zone

AM 12:00 ZONE EST
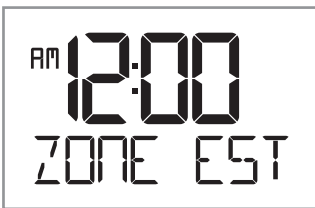
Time Zones
AST   Atlantic
EST   Eastern
CST   Central
MST   Mountain
PST   Pacific
AKT   Alaskan
HAT   Hawaiian

Note: Time Zone needs to be set for the hours to be correct

4. Daylight Savings Time

ON DST   **OFF** DST

5. 12 | 24 Hour Format

12Hr FORMAT   **24Hr** FORMAT

6. Hours

AM 12: HOUR

7. Minutes

:34 MINUTES

8. Year

2016 YEAR

9. Month

JAN MONTH

10. Date

/01 DATE

Note: The day of the week is automatically set after Year, Month, and date are specified

11. Fahrenheit | Celsius

°F TEMP   **°C** TEMP

Temperature & Humidity Alerts

Note: First, turn ON the alert, then set the alert value. If an alert is OFF, you will skip that alert and move to the next alert.

1. Hold the **ALERTS** button 3 seconds to enter alert set mode.
2. Press and release the **+/-** buttons to arm the alert.
   - ON to set
   - OFF to skip
3. When the alert is ON press and release the **ALERTS** button to move to the alert value.
4. Press and release the **+/-** buttons to adjust alert values.
5. Press and release the **ALERT** button to confirm and move to the next alert.

*Note: Press the **LIGHT** button at any time to exit.*

Alert Setting Order:

1. Outdoor LO Temperature
2. Outdoor HI Temperature

3. Outdoor LO Humidity
4. Outdoor HI Humidity

5. Indoor LO Temperature
6. Indoor HI Temperature

7. Indoor LO Humidity
8. Indoor HI Humidity

HI
⚠
LO

Note: Alert icon will indicate which alerts are on
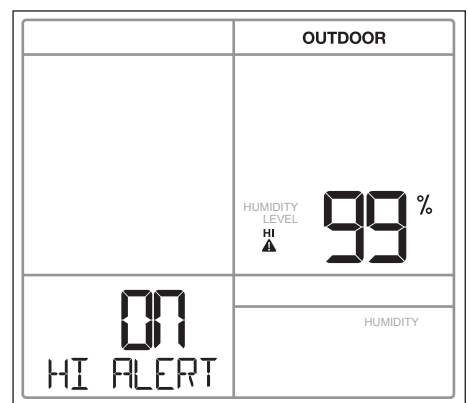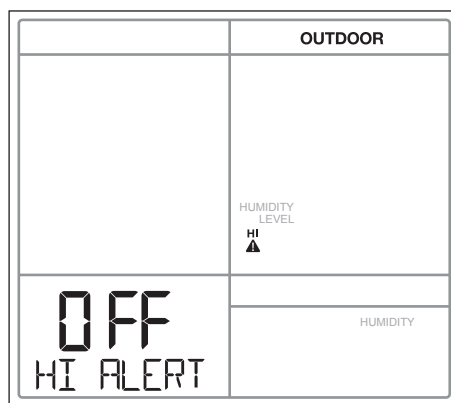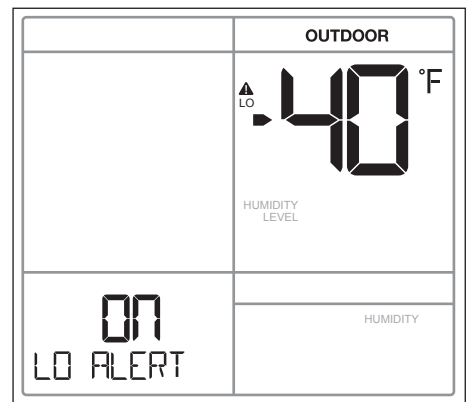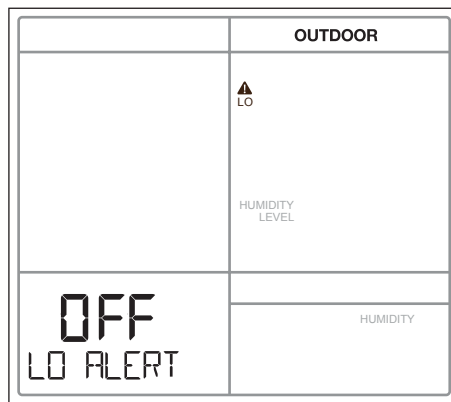
Alert Sounds

- When alert value is reached, the display will beep for 5 seconds (1 beep per second) each minute until out of alert range.
- To silence alarm press any button

HI/LO Temperatures

Press and release the **TEMP** button to view:

• Press once to view HI indoor and outdoor temperature/humidity

• Press again to view LO indoor and outdoor temperature/humidity

• Press again to view outdoor Heat Index

• Press again to view outdoor Dew Point

Note: HI/LO records reset automatically at midnight.

HI Record

	OUTDOOR
	86 °F
HUMIDITY LEVEL	78 %
	INDOOR
HI RECORD	73 °F 56 % HUMIDITY

LO Record

	OUTDOOR
	59 °F
HUMIDITY LEVEL	62 %
	INDOOR
LO RECORD	65 °F 47 % HUMIDITY

Heat Index

	OUTDOOR
	102 °F
HUMIDITY LEVEL	
HEAT	HUMIDITY

Dew Point
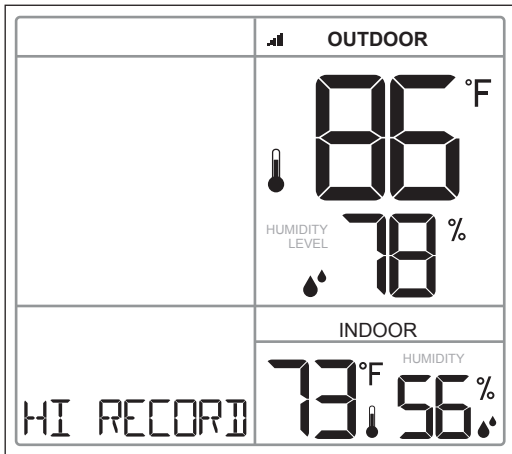
	OUTDOOR
	59 °F
HUMIDITY LEVEL	
DEW POINT	HUMIDITY
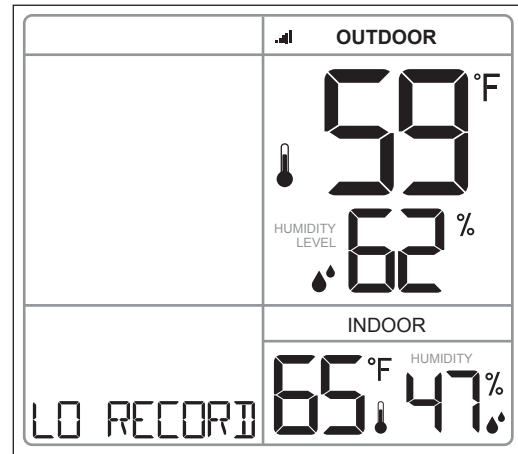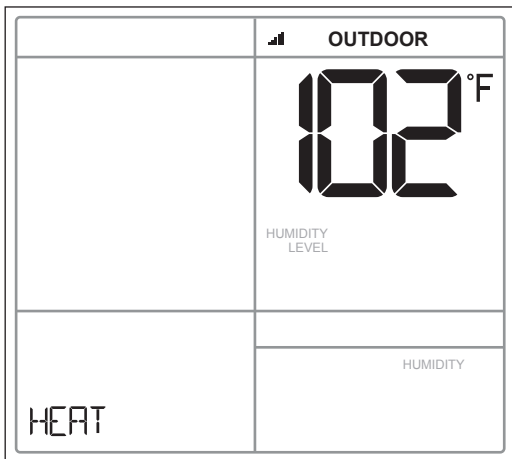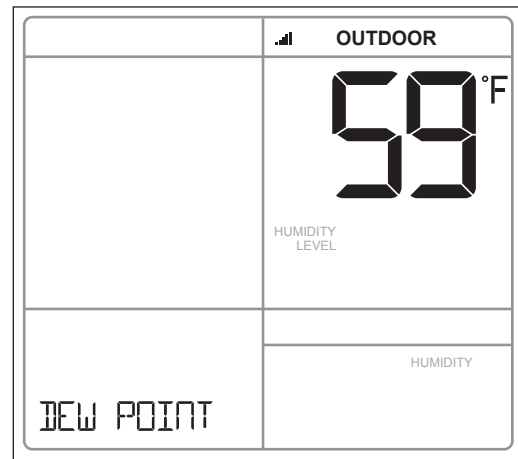
Forecast

- The display offers 6 forecast icons based on barometric pressure.
- The SNOW icon will only appear if the outdoor temperature is below 32F and the forecast would be rainy or stormy.
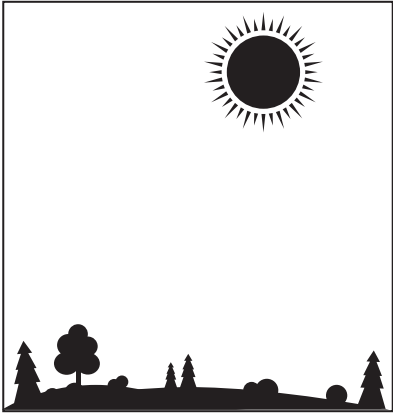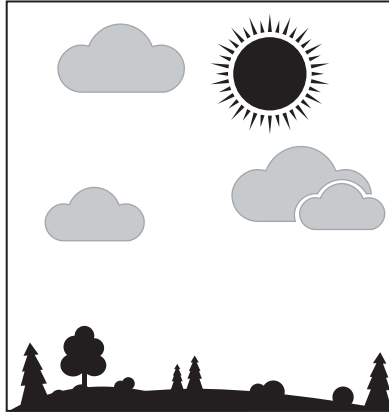
Sunny	**Partly Sunny**	**Cloudy**
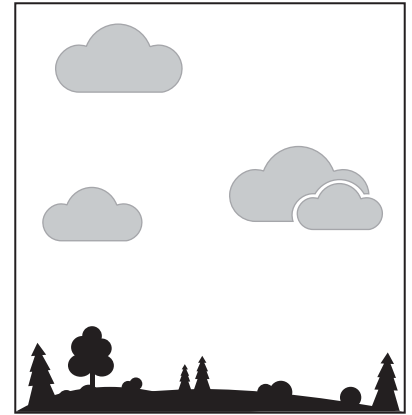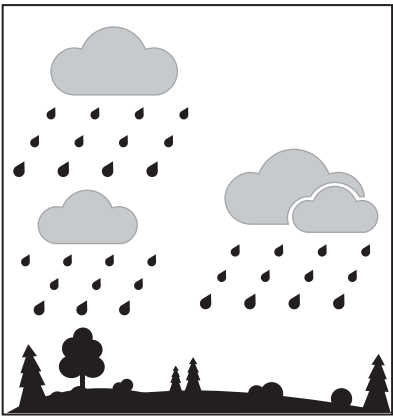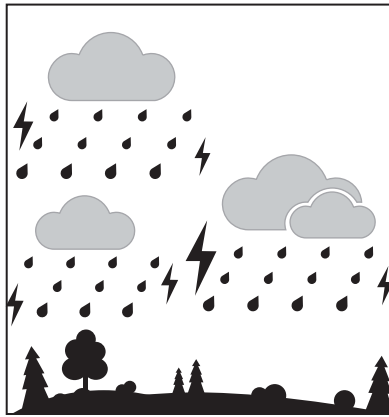
Rain	**T-Storm**	**Snow**
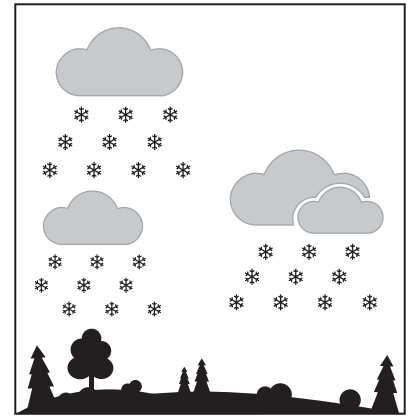
Intelligent Weather Forecast:

This weather station learns. Please allow 7-10 days for barometric calibration. Six forecast icons use changing atmospheric pressure to predict weather conditions for the next 12 hours with 70-75% accuracy.

Forecast Tendency Arrows

Up Arrow: Pressure is rising. Weather is expected to improve.

Down Arrow: Pressure is falling. Weather is expected to worsen.

Seasonal Trees

The trees and foliage color will change seasonally. The dates are programmed into the weather station for the scene to change automatically.

Spring

March 20th – June 20th

Summer

June 21st – Sept. 20th

Autumn

Sept. 21st – Dec 20th

Winter

Dec 21st – Mar 19th

Temperature | Humidity Trend Arrows

The temperature and humidity trend arrows update every 15 minutes. The trend reflects changes (2°F and 3% humidity) over the past 1 hour. E.g.: At 1:00 - compare to 12:00 data; at 1:15 -compare to 12:15: at 1:30 - compare to 12:30 ….. etc

Up Arrow: Risen in past hour

Down Arrow: Fallen in past hour

Sensor Search

• Hold the **SEARCH** button for 3 seconds to search for the outdoor temperature/humidity sensor.

• The strength signal icon will animate until the sensor signal is received, or for 3 minutes if no signal available.

Low Battery

by Outdoor Temperature, replace batteries in the sensor.

by Indoor Temperature, replace batteries in the display.

## Backlight (HI-LOW-OFF)

• When operating with the power cable, the backlight is adjustable: HI-LOW-OFF.

• Press and release the **LIGHT** button to adjust backlight.

• When operating on batteries only, the backlight will come on briefly when the **LIGHT** button is pressed.
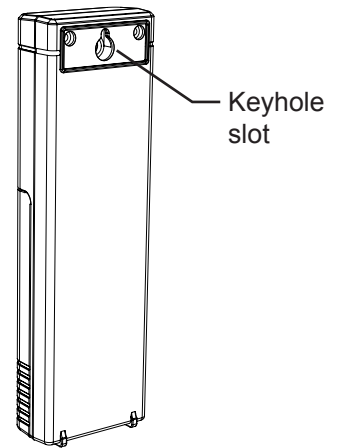
Atomic Time

• The display will search for the atomic time signal at UTC 7:00, 8:00, 9:00, 10:00, and 11:00.

• If there is no WWVB reception, the display will search for the atomic time signal every 2 hours until the WWVB time is received.

• The atomic time signal icon will flash while searching. The tower icon will be solid when it has connected.

• After reception, this display will only search for the atomic signal after midnight.

• From normal time display, press and release the **SEARCH** button to search for the WWVB time signal.

• Please be sure you have selected your time zone from the list in the Settings menu. When the Atomic time signal is received, the display will set to the time zone selected. Default is Eastern Time.

• For information about WWVB visit: www.nist.gov/pml/div688/grp40/wwvb.cfm

Mount Outdoor Sensor

• Insert the mounting screw through the front of the sensor and into the wall or use key-hole slot.

• Tighten the screw to snug if mounting through the front. Do not over tighten

• Mount the sensor on a north-facing wall or in any well shaded location. Sun will make it read high.

• Under an eave or deck rail is preferred.

• Be sure the outdoor sensor is mounted vertically to drain moisture.

• The maximum wireless transmission range is over 300 feet (91 meters) in open air, not including walls or floors.
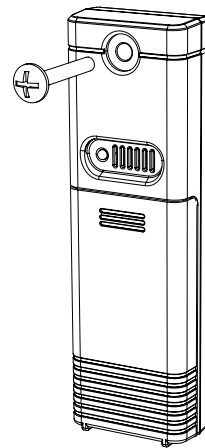
Keyhole slot

Mount through front

Use keyhole slot

Position Display

• For best Atomic time reception orientate the display with the front or the back facing Ft. Collins, Colorado.

• Choose a location 6 feet or more from electronics such as cordless phones, gaming systems, televisions, microwaves, routers etc.

• Place within range of the outdoor sensor (300 feet open air).

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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
- 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: 1-855-605-6888

Online Product Support: www.lacrossetechnology.com/support

Product Registration: www.lacrossetechnology.com/support/register

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

Warranty Address:
La Crosse Technology, Ltd
2830 S. 26th St.
La Crosse, WI 54601

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

Specifications

Indoor	
Temperature Range	32°F to 99°F (0°C to 37°C)
Humidity Range	10% - 99% (RH)
Outdoor	
Temperature Range	-40°F to 140°F (-40°C to 60°C)
Humidity Range	10% - 99% (RH)
Distance	Over 300 ft. (91 meters) RF 433MHz (open air)
Alkaline Batteries	-20°F to 140°F (-29°C to 60°C) *Note: Temperatures below -20°F (-29°C) require Lithium batteries in the outdoor sensor*
Power	
Display Power Cable	5.0 volt AC power adapter
AC6 Adapter No.	GPU280500150WAOO
Optional Display Battery Backup	3-AA, IEC, LR6 batteries (not included)
Outdoor sensor	2-AA, IEC, LR6, batteries (not included)
Battery Life	
Display Battery Backup Power	Battery life is over 24 months when using the AC adapter for primary power
Outdoor sensor	Battery life is over 24 months when using reputable battery brands
Dimensions	
Display	6.88" W x 6.37" T x 1.33" D (17.5cm W x 16.2cm T x 3.4cm D)
Outdoor Sensor	1.57" W x 5.12" T x 0.79" D (4.0cm W x 13.0cm T x 2.0cm D)

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.

Canada Statement

This device complies with CNR Industry Canada license -exempt devices.
Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.