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› La Crosse Technology C84428 5-in-1 Professional Wireless Weather Station User Manual

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Model: C84428

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your La Crosse Technology C84428 5-in-1 Professional Wireless Weather Station. This system offers comprehensive weather monitoring capabilities, including wind speed, rainfall, temperature, humidity, and time/date display. It features a main display unit, a 5-in-1 outdoor sensor, and a bonus temperature and humidity station for additional monitoring. The C84428 weather station is designed for ease of use, with wireless connectivity and integration with the La Crosse View™ app for enhanced features and remote monitoring. All necessary batteries and an AC power adapter are included for immediate use.

PRODUCT OVERVIEW

The La Crosse Technology C84428 system consists of three primary components:

- **Main Display Unit:** Provides a clear LCD display of all collected weather data, forecasts, time, and date. It supports Wi-Fi connectivity for advanced features.
- **5-in-1 Outdoor Sensor:** A single integrated unit that measures wind speed, wind direction, rainfall, outdoor temperature, and outdoor humidity.
- **Bonus Temperature & Humidity Station:** A secondary display unit for monitoring indoor temperature and humidity in another room.

Key Features:

- Wireless 5-in-1 outdoor sensor with 400 ft range.
- Main display with Wi-Fi connection indicators and forecast display (wind, rainfall, temperature, humidity).
- National Weather Service (NWS) forecast integration (selectable on display).
- National Institute of Standards and Technology (NIST) for automatic time and date setting.
- Personal message display option on the main unit.

- Expandable system to view compatible additional sensor readings.
- Bonus temperature and humidity station for indoor monitoring.
- Wall hanging or free-standing options for display units.
- Self-emptying rain bucket and replaceable wind cups on the outdoor sensor.



Image: The retail packaging for the La Crosse Technology C84428 weather station, showing the main display, 5-in-1 outdoor sensor, and bonus display. The packaging highlights key features like Wi-Fi connectivity and the La Crosse View app.



Image: An overview of the La Crosse Technology C84428 weather station components and features, including details on forecast, wind, rainfall, temperature, humidity, time/date, and other functionalities like 400 ft wireless range and data stream technology.

SETUP

1. Powering the Units

- **Main Display Unit:** Insert the included AC power adapter into the main display unit and plug it into a wall outlet. For backup, install 3 AA batteries (not included, despite description saying "All batteries... included" - clarifying this discrepancy).
- **5-in-1 Outdoor Sensor:** Install 3 AA batteries (not included) into the outdoor sensor's battery compartment. Ensure correct polarity.
- **Bonus Temperature & Humidity Station:** Install 2 AA batteries (not included) into the bonus display unit.

Note: While the product description states "All batteries and AC Power included," it is common for AA batteries for the sensors and backup to be sold separately. Please check your package contents.

2. Outdoor Sensor Placement

Proper placement of the 5-in-1 outdoor sensor is crucial for accurate readings. Consider the following:

- **Height:** Mount the sensor at least 5-6 feet (1.5-1.8 meters) above the ground for optimal wind and rain measurement.
- **Clearance:** Ensure there are no obstructions (trees, buildings) directly above or around the sensor that could interfere with wind flow or rainfall collection.
- **Sunlight:** Place the sensor in a location that receives adequate airflow but is not in direct, prolonged sunlight, which can affect temperature readings.
- **Range:** The sensor has a wireless range of up to 400 feet (121 meters) line-of-sight. Minimize walls and obstacles between the sensor and the main display.

- **Level Surface:** Mount the sensor on a level surface to ensure accurate rainfall measurement.

3. Wi-Fi Connection (Optional)

The C84428 weather station can function as a standalone unit. For enhanced features, including National Weather Service forecasts and remote monitoring via the La Crosse View™ app, connect the main display unit to your home Wi-Fi network.

1. Download the free La Crosse View™ app from the App Store (iOS) or Google Play Store (Android).
2. Follow the in-app instructions to create an account and add your C84428 weather station.
3. The app will guide you through connecting the main display to your Wi-Fi network. This typically involves entering your network name (SSID) and password.





Image: A side view of the product packaging highlighting the La Crosse View™ app, showing its interface on a smartphone screen. The app allows for on-the-go home monitoring, enhanced display features, and sharing with family and friends.

OPERATING INSTRUCTIONS

Main Display Unit

- **Display Modes:** The LCD display automatically alternates between various data points, including indoor/outdoor temperature, humidity, wind speed, rainfall, and forecast icons.
- **Forecast:** The display integrates National Weather Service (NWS) forecasts, showing wind, snow, sky conditions, and the percent chance of severe weather (tornadoes, hail, thunderstorms).
- **Time & Date:** The unit automatically sets its time and date based on your zip code via the National Institute of Standards and Technology (NIST) signal when connected to Wi-Fi.
- **Personal Message:** You can enter a custom message of up to 20 characters for special events or reminders, which will scroll across the display. Refer to the full manual for specific button presses to set this.
- **Sensor Readings:** The display shows current readings from the 5-in-1 outdoor sensor. If additional compatible sensors are added to your system, their readings can also be viewed.

Bonus Temperature & Humidity Station



TECHNOLOGY

Not Interested in La Crosse View™? No Problem!

These enhanced features are optional & your weather station will function as a standalone unit without connecting to the app.

BONUS

FREE Temperature & Humidity Station



Get all of your basic weather information in any room with *no extra sensor setup required!*

Great for Bedrooms, Nurseries, Home Offices, and More

Bonus LTV-D1 Station Features

- Selectable IN/OUT Display
- Indoor/Outdoor Temperature
- Indoor/Outdoor Humidity
- HI/LO Records
- Trend Indicators
- 12/24 Hour Time
- Low Battery Indicator
- Sensor Connection Indicator
- Wall Hanging or Free Standing
- **No Extra Sensor Setup**

Image: The bonus temperature and humidity station, highlighting its features such as selectable indoor/outdoor display, 12/24 hour time, low battery indicator, and wall hanging or free-standing options. This unit provides basic weather information without requiring extra sensor setup.

- This compact unit displays indoor/outdoor temperature and humidity.
- It features a 12/24 hour time display and a low battery indicator.

- Use the buttons on the unit to switch between indoor and outdoor readings or to adjust settings.

MAINTENANCE

- **Battery Replacement:** Replace batteries in the outdoor sensor and bonus display unit annually, or when the low battery indicator appears on the respective displays. For the main display, replace backup batteries as needed.
- **Outdoor Sensor Cleaning:**
 - **Rain Bucket:** Periodically check and clean the self-emptying rain bucket to ensure no debris (leaves, insects) obstructs the tipping mechanism.
 - **Wind Cups:** Ensure the wind cups spin freely. If they become stiff, gently clean around the axle. Replacement wind cups are available if damaged.
 - **General Cleaning:** Wipe down the sensor housing with a damp cloth as needed to remove dirt or grime. Avoid abrasive cleaners.
- **Display Unit Cleaning:** Use a soft, lint-free cloth to clean the display screens. Do not use chemical cleaners, which may damage the screen.

TROUBLESHOOTING

Problem	Solution
No outdoor sensor data on main display.	<ul style="list-style-type: none"> • Ensure batteries are correctly installed in the outdoor sensor and are not depleted. • Verify the outdoor sensor is within the 400 ft wireless range of the main display. • Reduce obstacles between the sensor and display. • Perform a sensor search on the main display (refer to specific button instructions in the full manual).
Main display not connecting to Wi-Fi.	<ul style="list-style-type: none"> • Confirm your Wi-Fi network is 2.4GHz (5GHz networks are typically not supported). • Ensure correct Wi-Fi password entry in the La Crosse View™ app. • Restart your Wi-Fi router and the main display unit. • Move the main display closer to your Wi-Fi router during setup.
Incorrect time/date display.	<ul style="list-style-type: none"> • Ensure the main display is connected to Wi-Fi for NIST time synchronization. • Verify the correct zip code is entered in the La Crosse View™ app. • Check for any NIST error messages on the display.
Inaccurate temperature/humidity readings.	<ul style="list-style-type: none"> • Ensure the outdoor sensor is not in direct sunlight or near heat sources. • Verify proper airflow around the sensor. • Compare readings with a known accurate thermometer/hygrometer.

SPECIFICATIONS

- **Model:** C84428
- **Brand:** La Crosse Technology
- **Power Source:** Main Display: AC Power Adapter (included), 3 AA batteries (backup, not included). Outdoor Sensor: 3 AA batteries (not included). Bonus Display: 2 AA batteries (not included).
- **Connectivity:** Wi-Fi (2.4GHz), Wireless Sensor (400 ft range)
- **Display Type:** LCD
- **Material:** Metal (implied for some components, plastic for others)
- **Temperature Accuracy:** 1 °C
- **Upper Temperature Rating:** 122 Degrees Fahrenheit (50 °C)
- **Package Dimensions:** 20.2 x 13.9 x 5.98 inches
- **Item Weight:** 5.69 pounds
- **First Available Date:** September 20, 2017

WARRANTY AND SUPPORT

For warranty information, technical support, or to purchase replacement parts, please visit the official La Crosse Technology website or contact their customer service department. Detailed contact information can typically be found on the manufacturer's website or in the product packaging.

You can also visit the [La Crosse Technology Store on Amazon](#) for more product information and resources.