

## La Crosse Technology 328-1415

# La Crosse Technology 328-1415 Wireless Professional Color Weather Station User Manual

## 1. INTRODUCTION AND OVERVIEW

The La Crosse Technology Wireless Professional Color Weather Station (Model 328-1415) provides comprehensive weather monitoring capabilities. This system offers real-time data including indoor and outdoor temperature, humidity, barometric pressure trends, wind speed and direction, and precise rainfall data.

Key features include:

- **Professional-Grade Monitoring:** Atomic time and date, wind speed and direction up to 111mph, rainfall data, indoor/outdoor temperature and humidity, and daily high/low records.
- **Advanced Cyclone Sensor:** The innovative TX145WSDR Cyclone sensor delivers accurate wind measurements, displaying direction via a compass rose or degrees. It tracks detailed wind history and supports customizable alerts.
- **Comprehensive Rainfall Tracking:** The integrated rain gauge provides accumulated rainfall data in various views (hourly, daily, weekly, monthly, yearly) with personalized alerts.
- **User-Friendly Display:** A high-contrast colored LCD screen offers easy readability with 6 dynamic color forecast icons, tendency indicators, and seasonal backgrounds. Barometric pressure readings and collected rain measurements are clearly displayed.
- **Versatile Power and Range:** The base unit uses a 5.0V AC adapter with CR2032 battery backup. The TX145WSDR sensor features a solar panel for extended battery life, while the TX141TH-BV4 sensor requires 2 AA batteries (not included). A 330-foot wireless transmission range ensures consistent data collection.

## 2. PACKAGE CONTENTS

The La Crosse Technology 328-1415 Weather Station package typically includes the following components:

- Color Display Unit (Base Station)
- TX145WSDR Cyclone Sensor (Outdoor Multi-Sensor)
- TX141TH-BV4 Sensor (Outdoor Temperature/Humidity Sensor)
- 5.0V AC Power Adapter for Display Unit

- CR2032 Battery (pre-installed in Display Unit for backup)
- Mounting hardware (screws, anchors)
- Instruction Manual



Figure 2.1: Overview of the La Crosse Technology 328-1415 Wireless Professional Color Weather Station components, including the display unit, outdoor multi-sensor, and remote temperature/humidity sensor.

### 3. SETUP

Follow these steps to set up your weather station for optimal performance:

1. **Power the Display Unit:** Plug the 5.0V AC adapter into the display unit and a power outlet. The CR2032 battery is pre-installed for backup.
2. **Install Batteries in TX141TH-BV4 Sensor:** Open the battery compartment of the TX141TH-BV4 sensor and insert 2 AA batteries (not included), observing correct polarity.
3. **Install Batteries in TX145WSDR Cyclone Sensor:** The Cyclone sensor is primarily solar-powered, but it also requires batteries for backup and low-light conditions. Open the battery compartment and insert the specified batteries (typically 3 AA, not included), observing correct polarity.
4. **Sensor Placement:** Position the TX145WSDR Cyclone sensor outdoors in an open area, away from obstructions, to ensure accurate wind and rain measurements. The TX141TH-BV4 sensor should also be placed outdoors in a shaded, well-ventilated location. Ensure both sensors are within the 330-foot

wireless transmission range of the display unit.

5. **Synchronization:** The display unit should automatically connect to the sensors. If connection is not established, refer to the troubleshooting section.



Figure 3.1: Rear view of the display unit, showing the battery compartment and power adapter input.



Figure 3.2: The outdoor multi-sensor (TX145WSDR Cyclone) installed in an open area for optimal weather data collection.

## 4. OPERATING

The display unit provides a clear and comprehensive overview of your local weather conditions. Familiarize yourself with the various sections and buttons:

- **Display Layout:** The high-contrast color LCD screen is divided into sections for outdoor temperature/humidity, indoor temperature/humidity, wind speed/direction, rainfall, barometric pressure, and a dynamic weather forecast.
- **Weather Forecast:** Six dynamic color icons indicate the weather forecast with tendency indicators and seasonal backgrounds. The forecast is based on changes in barometric pressure.
- **Temperature & Humidity:** View current indoor and outdoor temperature and humidity readings, along with daily high/low records.
- **Wind Data:** The TX145WSDR Cyclone sensor measures wind speed up to 111mph and displays wind direction using a compass rose or degrees. Historical wind records (1 hour, 24 hours, 7 days, month, year) are available.
- **Rainfall:** The rain gauge provides accumulated rainfall data in multiple views, from the past hour up to the last year.



- **Barometric Pressure:** Displays current barometric pressure in InHg or hPa with trend indicators.
- **Atomic Time & Date:** The station automatically synchronizes with the atomic time signal for accurate timekeeping.
- **Customizable Alerts:** Set personalized alerts for specific wind speed, rainfall, temperature, and humidity thresholds.
- **Adjustable Backlight:** The display's backlight can be adjusted for optimal viewing day or night.



Figure 4.1: Close-up view of the color display, highlighting various data points and forecast icons.

## 5. MAINTENANCE

Proper maintenance ensures the longevity and accuracy of your weather station:

- **Sensor Cleaning:** Periodically clean the outdoor sensors (TX145WSDR Cyclone and TX141TH-BV4) to remove dirt, dust, leaves, insects, or other debris that may obstruct readings. Ensure the rain gauge funnel is clear.
- **Battery Replacement:** Replace batteries in the outdoor sensors as needed. The TX141TH-BV4 sensor requires 2 AA batteries. The TX145WSDR Cyclone sensor uses a solar panel but also requires batteries for backup. The display unit uses a CR2032 battery for backup.
- **Storage:** If storing the product for an extended period, remove all batteries from the sensors and display unit.

## 6. TROUBLESHOOTING

If you encounter issues with your weather station, refer to these common solutions:

- **No Sensor Data:** If the display unit is not receiving data from the outdoor sensors, check the following:

- Ensure batteries are correctly installed and not depleted in both sensors.
  - Verify that the ABC switch settings on both sensors and the display unit match (A, B, or C).
  - Relocate sensors closer to the display unit to improve signal strength, ensuring they are within the 330-foot range and away from major electronic interference.
  - Press the 'TEMP' button on the display unit to initiate a manual search for the outdoor sensor.
- **Inaccurate Readings:** Ensure sensors are placed in optimal locations (e.g., open area for wind/rain, shaded area for temperature/humidity). Calibrate the rain gauge if necessary according to the full instruction manual.
  - **Low Battery Indicator:** A low battery icon on the display indicates that batteries in a specific sensor or the display unit need replacement.

## 7. SPECIFICATIONS

Brand	La Crosse Technology
Model Number	328-1415
Product Dimensions	8.23 x 3.27 x 5.83 inches
Item Weight	12.8 ounces
Material	Acrylonitrile Butadiene Styrene (ABS), Plastic
Color	Black
Display Type	LCD
Power Source	Corded Electric (Display Unit), Solar/Battery (TX145WSDR), Battery (TX141TH-BV4)
Batteries Required	Yes (CR2032 for display backup, AA for sensors)
Temperature Accuracy	1 °C
Upper Temperature Rating	140 Degrees Fahrenheit
Connectivity Technology	Wireless (for sensors), Wi-Fi (as per specifications, though primarily for sensor communication)
Special Features	Adjustable Brightness, Customizable Alert, Large Display, Weather Resistant

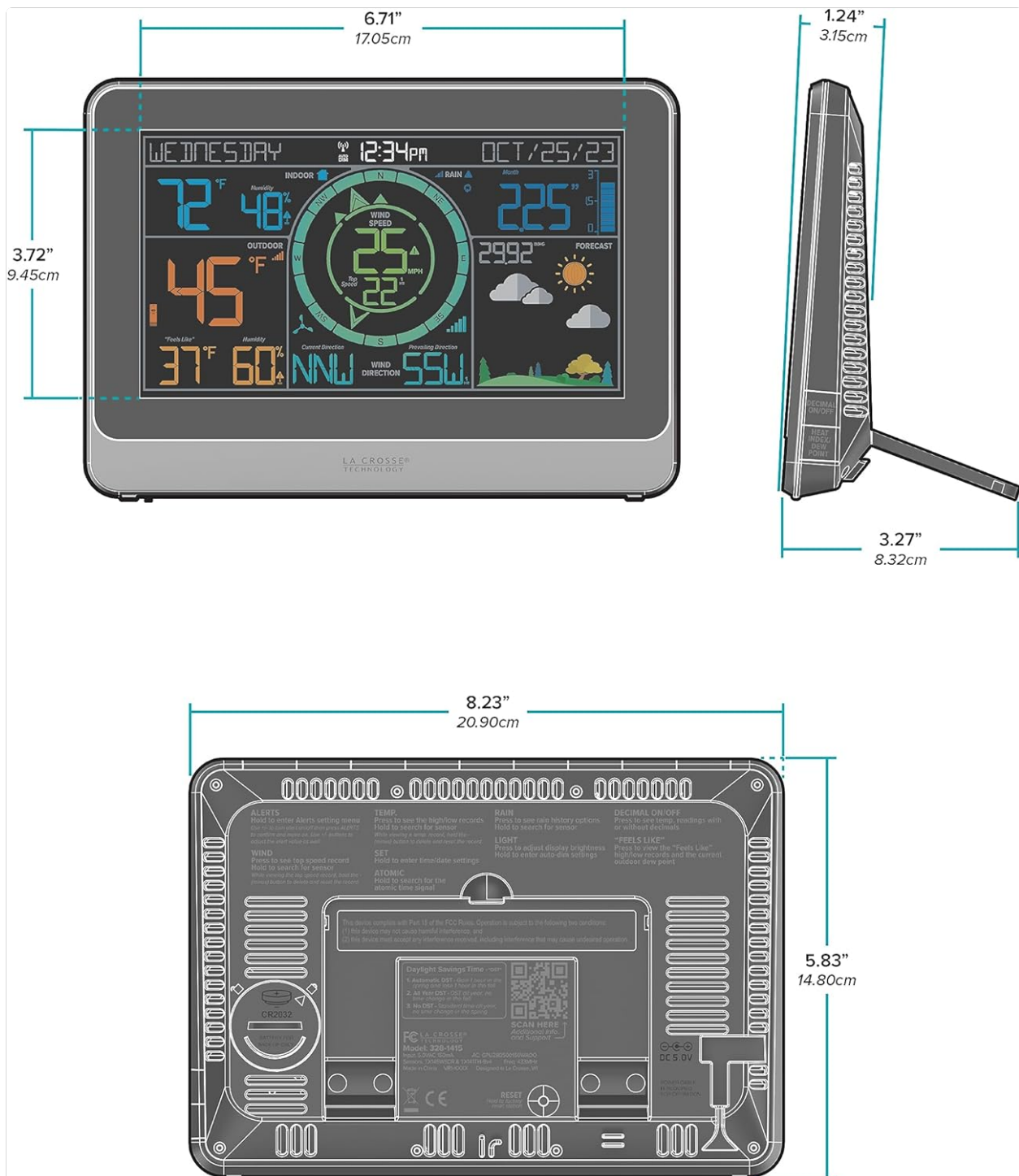


Figure 7.1: Detailed dimensions of the display unit and rear panel layout.

## 8. WARRANTY AND SUPPORT

**Warranty:** La Crosse Technology, Ltd. provides a 1-year limited time warranty from the date of purchase. This warranty covers manufacturing defects in materials and workmanship. For full warranty details, visit: [www.lacrossetechnology.com/patents](http://www.lacrossetechnology.com/patents).

**Customer Support:** For additional support or inquiries, please contact the friendly customer support team based in La Crosse, Wisconsin.

- **Phone:** 1-608-782-1610
- **Online:** [lacrossetechnology.com/support](http://lacrossetechnology.com/support)
- **Hours:** Monday-Friday, 8am-6pm CST

