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> AcuRite 02446M Wireless Rain Gauge User Manual

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Model: 02446M

1. INTRODUCTION

The AcuRite 02446M Wireless Rain Gauge provides accurate and reliable rainfall measurements. This system consists of a self-emptying outdoor rain collector and an indoor digital display unit. It allows you to monitor current rainfall, historical data, and set customizable alerts for precipitation levels.



Figure 1.1: AcuRite 02446M Wireless Rain Gauge, showing both the indoor display and the outdoor collector.

2. PRODUCT OVERVIEW

2.1 Components

- **Digital Display Unit:** An indoor unit that shows rainfall data, time, and date.
- **Self-Emptying Rain Collector:** An outdoor unit that collects and measures rainfall, then wirelessly transmits data to the display.

2.2 Digital Display Unit Features

- Large, easy-to-read LCD screen.
- Displays current rainfall, daily, weekly, monthly, and yearly totals.
- Customizable rainfall alarm.
- Current date and time display.



Figure 2.1: Front view of the AcuRite 02446M digital display unit.

2.3 Self-Emptying Rain Collector Features

- Measures rainfall accurately.
- Automatically empties collected water, eliminating manual maintenance.
- Wireless transmission to the indoor display.



Figure 2.2: The AcuRite self-emptying rain collector.

3. SETUP

3.1 Unpacking and Battery Installation

1. Carefully remove all components from the packaging.
2. **For the Rain Collector:** Locate the battery compartment, typically at the base. Insert the required batteries (not included) according to the polarity markings. Secure the compartment cover.
3. **For the Digital Display Unit:** Open the battery compartment on the back of the unit. Insert the required batteries (not included) according to the polarity markings. Close the compartment cover.



Figure 3.1: Back of the digital display unit, showing the battery compartment.

3.2 Placement of the Rain Collector

For accurate readings, proper placement of the rain collector is crucial.

- Choose an open area, away from trees, buildings, or other obstructions that could block rainfall.
- Ensure the collector is placed on a level surface to prevent inaccurate measurements. Use a spirit level if necessary.
- The collector should be easily accessible for occasional cleaning.



Figure 3.2: Rain collector positioned in an open outdoor environment.

3.3 Placement of the Digital Display Unit

- Place the display unit indoors, within the wireless range of the rain collector.
- Avoid placing it near large metal objects, thick walls, or other electronic devices that could interfere with the wireless signal.

3.4 Initial Synchronization

Once batteries are installed in both units and they are placed appropriately, the display unit should automatically synchronize with the rain collector. This may take a few minutes. If synchronization does not occur, ensure both units are within range and try re-inserting batteries.

4. OPERATION

4.1 Reading Rainfall Data

The digital display provides various rainfall measurements:

- **Current Rainfall:** Displays the most recent rainfall amount.
- **Today's Rainfall:** Total rainfall for the current day.
- **Yesterday's Rainfall:** Total rainfall for the previous day.
- **Past 7 Days:** Cumulative rainfall over the last seven days.
- **This Month/Year to Date:** Cumulative rainfall for the current month and year.



Figure 4.1: Detailed view of the display showing various rainfall metrics.

4.2 Setting Time and Date

Refer to the buttons on the back or side of the display unit (e.g., 'SET', '+', '-') to adjust the time and date. Follow the on-screen prompts to set these parameters correctly.

4.3 Customizing Rainfall Alarm

The unit features a customizable alarm that sounds when a preset rainfall total is reached. Consult the display unit's controls to set your desired rainfall threshold for this alert.

4.4 Resetting Rainfall Totals

To reset specific rainfall totals (e.g., daily, weekly, monthly), navigate to the desired display mode and press and hold the 'CLEAR' or 'RESET' button as indicated in the display unit's interface.

5. MAINTENANCE

5.1 Self-Emptying Feature

The rain collector is designed to be self-emptying, meaning it does not require manual emptying after each rainfall event. Water is measured and then automatically drained from the unit.

5.2 Cleaning the Rain Collector

Periodically inspect the rain collector for debris such as leaves, twigs, or insects that may obstruct the funnel or tipping mechanism. Gently clean the interior and exterior with a soft, damp cloth. Avoid using abrasive cleaners.

5.3 Battery Replacement

Replace batteries in both the rain collector and the digital display unit when the low battery indicator appears on the display, or if the units cease to function. Use fresh, high-quality batteries of the specified type.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No display on indoor unit	Dead or incorrectly installed batteries.	Check battery polarity and replace with fresh batteries.
No rainfall data displayed	No wireless connection between collector and display; collector obstructed; collector batteries low.	Ensure units are within range. Clear any obstructions from the collector. Replace collector batteries. Re-synchronize units.
Inaccurate rainfall readings	Collector not level; debris in collector; calibration required.	Ensure collector is on a level surface. Clean collector of debris. Refer to advanced instructions for calibration adjustment if necessary.
Wireless signal loss	Distance too great; interference from other electronics or metal objects.	Move display unit closer to the collector. Relocate units away from sources of interference.

7. SPECIFICATIONS

- **Model Number:** 02446M
- **Product Dimensions (Display):** 2.3"D x 4.9"W x 6"H
- **Power Source:** Battery Powered (specific battery types not provided, refer to unit for details)
- **Connectivity:** Wireless
- **Material:** Acrylic, Polycarbonate (PC)
- **Special Features:** Customizable Alert, Self-Emptying Rain Collector
- **Color (Display):** Black
- **Style:** Vertical Display

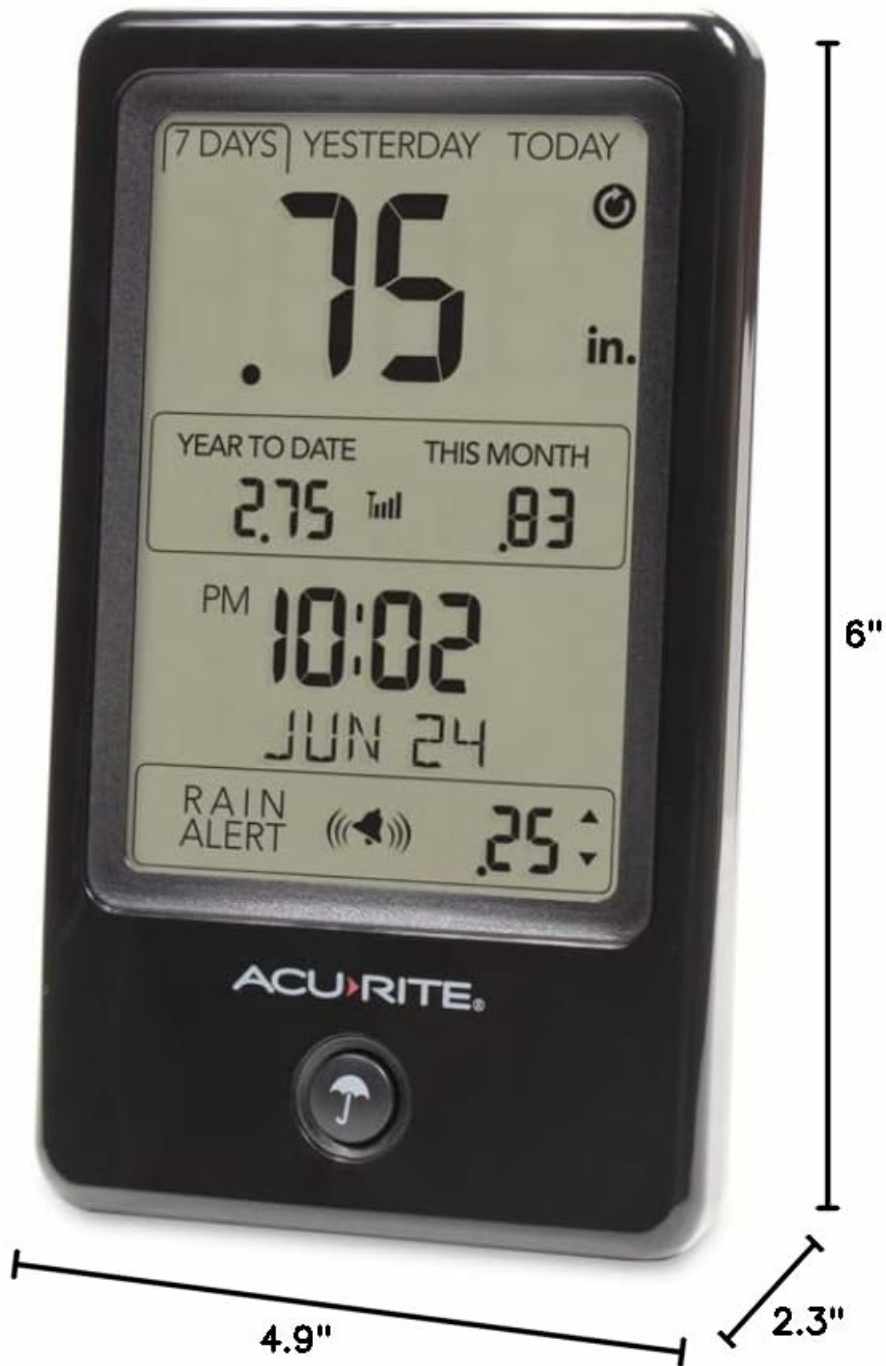


Figure 7.1: Digital display unit with its dimensions.

8. WARRANTY AND SUPPORT

8.1 Limited One-Year Warranty

The AcuRite 02446M Wireless Rain Gauge is covered by a limited one-year warranty from the date of purchase. This warranty covers defects in material and workmanship. For full terms and conditions, please refer to the warranty information provided with your product packaging or visit the official AcuRite website.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please visit the official AcuRite support website or contact their customer service department. You can typically find contact information on the AcuRite website: www.acurite.com/support

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