Rain Bird WPX 6 Station

Rain Bird WPX Battery-Operated Controller (6 Stations) User Manual

Your guide to efficient and reliable irrigation control.

1. Introduction

The Rain Bird WPX Battery-Operated Controller is a robust and convenient solution for automatic irrigation in locations without AC power. Designed for durability, its waterproof casing ensures a long lifespan, even when installed in a valve box. This manual provides detailed instructions for the installation, programming, operation, and maintenance of your WPX controller.

Key Features:

- IP68 certified for dust and water protection.
- Easy access to all programming functions for quick setup.
- Clear LCD display showing run time, start times, and watering days per zone.
- Manual watering button for immediate operation.
- Automatic zone sequencing for efficient watering.
- Contractor Rapid Programming to copy settings from Zone 1.
- Permanent program memory (100 years).
- Sensor input with bypass option.
- Long battery life: one year with one 9V alkaline battery, two years with two 9V alkaline batteries.

2. Safety Information

Please read all safety instructions before operating the Rain Bird WPX controller. Failure to follow these instructions may result in product damage or personal injury.

- **Battery Safety:** Use only 9V alkaline batteries. Do not mix old and new batteries. Dispose of used batteries responsibly.
- **Water Exposure:** While the controller is waterproof (IP68), ensure the battery compartment is securely sealed after battery installation.
- **Installation:** Install the controller in a location that is easily accessible for programming and maintenance, but protected from direct sunlight and extreme temperatures if possible.

- **Children:** Keep the device out of reach of children.

3. Product Overview



Figure 3.1: Front view of the Rain Bird WPX Battery-Operated Controller, showing the LCD screen, control buttons, and the Rain Bird logo.

The Rain Bird WPX controller features a large LCD display for clear visibility of programming settings and current status.

The control panel includes intuitive buttons for mode selection, navigation, and manual operation.

Components:

- **LCD Display:** Shows time, date, battery level, watering schedule, and programming options.
- **MODE Button:** Cycles through programming modes (Set Time, Start Times, Run Times, Watering Days, Seasonal Adjust, Manual Watering).
- **+/- Buttons:** Adjust values and navigate through options.
- **Manual Watering Button:** Initiates immediate watering.
- **Battery Compartment:** Located at the back or bottom, houses the 9V alkaline battery(ies).
- **Sensor Input:** Port for connecting a rain sensor or other compatible sensors.

4. Setup

4.1 Battery Installation

1. Locate the battery compartment cover on the controller.
2. Remove the cover by twisting or unlatching it.
3. Insert one or two new 9V alkaline batteries, observing the correct polarity (+/-).
4. Securely replace the battery compartment cover to maintain the IP68 waterproof rating.

4.2 Mounting and Wiring

The WPX controller is designed for installation in a valve box or mounted on a wall. Ensure proper wiring to your irrigation valves.

- **Valve Box Installation:** Place the controller inside a standard valve box, ensuring it is accessible and protected.
- **Wall Mounting:** Use appropriate screws and anchors to mount the controller securely to a wall or post.
- **Wiring:** Connect the common wire from your valves to the common terminal on the controller. Connect each zone wire from your valves to the corresponding zone terminal on the controller. For multi-zone units, ensure correct zone assignment.
- **Sensor Connection:** If using a rain sensor, connect it to the designated sensor input terminals.

5. Operating Instructions

5.1 Initial Setup and Time Setting

1. Press the **MODE** button until "Set Time" or a clock icon appears on the display.
2. Use the **+/-** buttons to adjust the current time and date.
3. Press **MODE** to confirm and move to the next setting.

5.2 Programming Watering Schedules

The WPX allows for up to 6 independent start times per zone and flexible watering day options.

1. Press **MODE** to navigate to "Start Times". Use**+/-** to set up to 6 start times for each zone.
2. Press **MODE** to navigate to "Run Times". Select each zone and use**+/-** to set the watering duration from 1 to 240 minutes.
3. Press **MODE** to navigate to "Watering Days". Choose from 4 options:
    - Custom Days: Select specific days of the week (e.g., MO, WE, FR).

- Cyclic Days: Water every 1 to 30 days.
- Odd Calendar Days.
- Even Calendar Days.

4. **Contractor Rapid Programming:** This feature allows you to copy the start times and watering days from Zone 1 to all other zones automatically. Refer to the on-screen prompts or specific manual section for activation.

5.3 Manual Watering

To initiate manual watering for all zones or a single zone:

1. Press the dedicated **Manual Watering** button.
2. Use **+/-** to select the desired zone or "ALL" for all zones.
3. Press the **Manual Watering** button again to start. The watering duration will be based on the programmed run time for that zone, or you may be prompted to set a temporary duration.

5.4 Seasonal Adjustment

Adjust watering durations for all zones simultaneously from 10% to 200% to compensate for seasonal changes without reprogramming individual zones.

1. Press **MODE** until "Seasonal Adjust" appears.
2. Use **+/-** to set the desired percentage.

5.5 Rain Sensor Operation

If a rain sensor is connected, the controller can automatically suspend irrigation during rainfall. You can configure the sensor to affect all zones or bypass specific zones.

1. Ensure the rain sensor is properly connected to the sensor input.
2. Navigate to the sensor settings in the programming menu to enable/disable the sensor or bypass zones.

6. Maintenance

6.1 Battery Replacement

The controller's display will indicate a low battery. Replace batteries promptly to ensure continuous operation and prevent program loss. Although the controller has permanent memory, a fresh battery ensures reliable valve operation.

1. Follow the battery installation steps in Section 4.1.
2. It is recommended to replace batteries annually, or every two years if using two batteries.

6.2 Cleaning

Clean the exterior of the controller with a soft, damp cloth. Do not use abrasive cleaners or solvents.

6.3 Winterization

In regions subject to freezing temperatures, it is recommended to remove the controller and batteries for winter storage to prevent damage from freezing water.

7. Troubleshooting

Problem	Possible Cause	Solution
Controller display is blank.	Dead or improperly installed battery.	Replace battery(ies) and ensure correct polarity.
Zone does not water.	Valve issue, wiring problem, or sensor activated.	Check valve operation manually. Inspect wiring connections. Check if rain sensor is active.
Watering schedule not running.	Incorrect programming, low battery, or sensor activated.	Verify start times, run times, and watering days. Replace battery. Check sensor status.
Manual watering not working.	Low battery or valve issue.	Replace battery. Check valve.

8. Specifications

- **Model:** WPX (6 Stations)
- **Power Source:** 9V Alkaline Battery (1 or 2 for extended life)
- **Operating Voltage:** 9 Volts
- **Display Type:** LCD
- **Operating Temperature:** Up to 40 Degrees Celsius
- **Run Time per Station:** 1 to 240 minutes
- **Start Times:** 6 independent start times per zone
- **Watering Day Options:** Custom days, Cyclic (1-30 days), Odd/Even calendar days
- **Watering Delay:** 1 to 9 days
- **Seasonal Adjustment:** 10% to 200%
- **Certifications:** cULus, FCC, IC, CE, RCM (AMCA), IP68, RoHS
- **Dimensions:** Width: 13.59 cm, Height: 10.26 cm, Depth: 6.15 cm
- **Weight:** 880 grams (approx. 907g as per feature bullet)
- **UPC:** 747719178018

9. Warranty Information

Rain Bird products are manufactured to the highest quality standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Rain Bird website. Keep your purchase receipt as proof of purchase.

10. Support

For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Rain Bird Customer Support. Visit the official Rain Bird website for contact information, FAQs, and additional resources.

Online Resources: www.rainbird.com

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