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Rain Bird ZJWP004

RainBird WP Series 4-Way Irrigation Controller User Manual

Model: ZJWP004

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your RainBird WP Series 4-Way Irrigation Controller. Designed for efficient and reliable automatic watering, this controller helps you manage your irrigation system with ease. Please read this manual thoroughly before installation and operation to ensure proper use and to maximize the lifespan of your device.

2. Safety Information

Always observe the following safety precautions to prevent injury or damage to the controller.

- **Electrical Safety:** Ensure the controller is installed in a dry location, protected from direct water spray or submersion. Do not open the controller casing unless instructed by a qualified technician.
- **Battery Safety:** Use only the specified battery type. Do not mix old and new batteries, or different types of batteries. Dispose of used batteries according to local regulations.
- **Water Pressure:** Ensure your irrigation system's water pressure is within the recommended operating range for the controller and connected valves.
- **Children:** Keep the controller out of reach of children.

3. Product Overview

The RainBird WP Series 4-Way Irrigation Controller is a robust, battery-operated device designed for outdoor use. It features a clear digital display and intuitive button controls for programming and manual operation.



Figure 1: Front view of the RainBird WP-4 irrigation controller, showing the digital display, control buttons (ON/+, OFF, A/B, left arrow, right arrow, rotate), and the Rain Bird logo. The display shows "11:12" and a battery icon. Below the display, "WP-4" is visible, and below that, indicators for "S S C P 1 2 3 4 5 6".

3.1. Components

- **Digital Display:** Shows time, program status, and settings.
- **Control Buttons:**
  - **ON/+ Button:** Activates manual watering or increases values.
  - **OFF Button:** Deactivates manual watering or decreases values.
  - **A/B Button:** Likely for selecting program A or B, or navigating between settings.
  - **Left Arrow Button:** Navigates left or decreases values.
  - **Right Arrow Button:** Navigates right or increases values.
  - **Rotate/Cycle Button:** Used to cycle through programming options or confirm selections.
- **Battery Compartment:** Located on the side or rear for power supply.
- **Valve Connections:** Ports for connecting up to four irrigation valves.

4. Setup

4.1. Battery Installation

1. Locate the battery compartment, typically on the side or back of the unit.
2. Open the battery compartment cover.
3. Insert the required number of new alkaline batteries (e.g., 9V or AA, refer to product packaging for exact type) ensuring correct polarity (+/-).
4. Close the battery compartment cover securely to maintain water resistance.

4.2. Mounting and Connection

1. Choose a suitable outdoor location, protected from direct sunlight and extreme weather, but accessible for programming.
2. Mount the controller securely to a wall or post using appropriate screws and anchors.
3. Connect the irrigation valves to the corresponding terminals on the controller (e.g., Zone 1, Zone 2, etc.). Ensure all connections are tight and waterproof.
4. Connect the common wire from your valves to the common terminal on the controller.

4.3. Initial Settings: Time and Date

1. Upon first power-up or after battery replacement, the display may show a default time or flash.
2. Use the **Left Arrow** and **Right Arrow** buttons to adjust the hour and minute.
3. Press the **Rotate/Cycle** button to confirm the time and move to date setting (if applicable).
4. Adjust the date (day, month, year) using the arrow buttons and confirm with the **Rotate/Cycle** button.

5. Operating

5.1. Programming an Automatic Schedule

The controller allows you to set up multiple watering programs (e.g., Program A, Program B) with different start times, run durations, and watering days.

1. Press the **A/B** button to select the program you wish to set (e.g., "A" or "B").
2. Press the **Rotate/Cycle** button to enter the programming mode.
3. **Set Start Times:** Use the arrow buttons to set the desired start time for the first watering cycle. Press **Rotate/Cycle** to confirm and move to the next start time (if multiple are desired).
4. **Set Run Durations:** For each zone (1-4), use the arrow buttons to set the watering duration in minutes. Press **Rotate/Cycle** to move to the next zone.
5. **Set Watering Days:** Select the specific days of the week for watering using the arrow buttons to toggle days on/off. Press **Rotate/Cycle** to confirm.
6. Once all settings are configured, the controller will return to the current time display, indicating the program is saved.

5.2. Manual Operation

To manually water a zone or all zones outside of the programmed schedule:

1. Press the **ON/+** button. The display will show options for manual watering.
2. Use the arrow buttons to select the zone(s) you wish to water and the desired duration.
3. Press **Rotate/Cycle** to start manual watering.
4. To stop manual watering, press the **OFF** button.

5.3. Rain Delay Function

If your controller has a rain delay function, it allows you to temporarily suspend watering for a set period (e.g., 24, 48, 72 hours) after rainfall.

- To activate, press a dedicated Rain Delay button or navigate through the menu using the **Rotate/Cycle** button until "Rain Delay" appears.
- Use the arrow buttons to select the desired delay duration.
- Confirm with the **Rotate/Cycle** button. Watering will resume automatically after the delay period.

6. Maintenance

6.1. Battery Replacement

Replace batteries annually or when the low battery indicator appears on the display. Refer to Section 4.1 for detailed battery installation steps.

6.2. Cleaning

Wipe the exterior of the controller with a damp cloth. Do not use abrasive cleaners or solvents. Ensure the display and buttons are free from dirt and debris.

6.3. Winterization (for cold climates)

Before the first frost, it is recommended to:

- Turn off the water supply to the irrigation system.
- Drain all water from the pipes and valves to prevent freezing and cracking.
- Remove the batteries from the controller if it will be exposed to freezing temperatures. Store the controller in a dry, protected area if possible.

7. Troubleshooting

Problem	Possible Cause	Solution
No display or blank screen.	Dead or incorrectly installed batteries.	Replace batteries, ensuring correct polarity.
Valves not opening/watering.	Low battery, incorrect wiring, valve solenoid issue, water supply off.	Check batteries, inspect wiring connections, check water supply, test valve solenoids.
Controller not following schedule.	Incorrect programming, rain delay active, low battery.	Review program settings, check for active rain delay, replace batteries.
Watering continuously.	Stuck valve, controller malfunction.	Manually shut off water supply. Inspect valves for debris. If problem persists, contact support.

8. Specifications

- **Model Number:** ZJWP004
- **Brand:** Rain Bird
- **Type:** 4-Way Irrigation Controller
- **Package Dimensions:** 26.2 x 15.2 x 7.8 cm (approximately 10.3 x 6.0 x 3.1 inches)
- **Package Weight:** 800 g (approximately 1.76 lbs)
- **First Available Date:** February 12, 2020

9. Warranty and Support

For specific warranty information regarding your RainBird WP Series 4-Way Irrigation Controller, please refer to the warranty card included with your product or visit the official Rain Bird website.
If you encounter issues not covered in this manual or require further assistance, please contact Rain Bird customer

support. Contact details can typically be found on the manufacturer's website or product packaging.

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