Rain Bird F45316

Rainbird ESP-RZX Series 6 Station Outdoor Mount Controller User Manual

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of the Rainbird ESP-RZX Series 6 Station Outdoor Mount Controller, 120V. This controller is designed for efficient and reliable automatic irrigation, offering user-friendly programming and robust performance for residential and light commercial applications.

Key features include zone-based scheduling, a large LCD display for clear programming, and an easy-to-navigate user interface. It supports up to 6 independent start times per zone and includes a weather sensor input with software override capability.

Product Overview



This image displays the Rainbird ESP-RZX Series 6 Station Outdoor Mount Controller. The controller is shown with its protective cover open, revealing the main control panel. The panel features a large LCD screen at the top, surrounded by various buttons for programming and navigation. Below the screen, the 'ESP-RZX' model name is visible, along with the 'Rain Bird' logo. Two white conduits extend downwards from the bottom of the unit, indicating wiring connections.

Setup

1. Mounting the Controller

Select a suitable outdoor location for mounting the controller. Ensure it is protected from direct sunlight and extreme weather conditions, yet accessible for programming and maintenance. The controller requires only two mounting screws for installation.

1. Mark the positions for the two mounting screws on the wall or desired surface.
2. Install the screws, leaving a small gap between the screw head and the surface.
3. Hang the controller onto the screws using the keyhole slots on the back of the unit.

4. Secure the controller by tightening the screws.

2. Wiring Connections

Ensure all power is off before making any wiring connections. This controller operates on 120V AC power.

- **Power Wiring:** Connect the 120V AC power supply to the designated terminals inside the controller. Follow local electrical codes.
- **Valve Wiring:** Connect each irrigation zone valve to its corresponding numbered terminal (1-6) on the controller. Connect the common wire from all valves to the 'COMMON' terminal.
- **Master Valve/Pump Start Relay (Optional):** If using a master valve or pump start relay, connect its wires to the 'MV' terminal and the 'COMMON' terminal.
- **Sensor Wiring (Optional):** If using a rain sensor or other weather sensor, connect its wires to the 'SENSOR' terminals. The controller includes a software override for the sensor input.

3. Battery Installation

Two AAA batteries are included and required for time and date backup in case of power outages. Install these batteries into the designated compartment, observing correct polarity.

Operating Instructions

The ESP-RZX controller features a large LCD display and an intuitive button layout for easy programming.

1. Initial Setup and Time/Date Setting

Upon initial power-up or after a prolonged power outage, you may need to set the current time and date. Use the navigation buttons (Back, Off, On, Next) and the plus/minus buttons to adjust values.

2. Zone-Based Scheduling

The controller allows each zone to be scheduled independently, providing maximum flexibility for different watering needs.

- **Setting Start Times:** Each zone can have up to 6 independent start times per day. Navigate to the desired zone and program the start times.
- **Setting Run Times:** For each zone, specify the duration of watering (run time).
- **Setting Watering Days:** Select specific days of the week for each zone to water, or choose cyclical watering options.

3. Manual Operation

To manually run a single zone or all zones, use the manual watering function. This allows for immediate watering outside of the programmed schedule.

4. Weather Sensor Integration

If a weather sensor is connected, the controller will automatically suspend watering based on sensor readings (e.g., rain). A software override feature allows you to temporarily bypass the sensor if needed.

Maintenance

- **Battery Replacement:** Replace the two AAA backup batteries annually or when the low battery indicator appears on the display to ensure time and date retention during power outages.
- **Cleaning:** Periodically wipe the controller's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Winterization:** In regions subject to freezing temperatures, it is recommended to drain the irrigation system and disconnect the controller's power supply for the winter months to prevent damage.

Troubleshooting

Problem	Possible Cause	Solution
Controller display is blank	No power to the controller; faulty transformer; dead backup batteries.	Check power outlet and circuit breaker. Verify transformer connection. Replace AAA backup batteries.
Zones not watering	Controller is in OFF mode; rain sensor activated; wiring issue; faulty valve.	Ensure controller is in AUTO mode. Check rain sensor status or bypass it. Inspect wiring connections to valves. Test individual valves.
Incorrect watering schedule	Incorrect programming of start times, run times, or watering days.	Review and adjust programming for each zone using the user interface.
Watering occurs at wrong time	Controller time/date is incorrect.	Reset the current time and date on the controller.

Specifications

- **Model Number:** F45316
- **Product Dimensions:** 7.92 x 1.54 x 7.83 inches
- **Item Weight:** 0.01 ounces
- **Power Input:** 120V AC
- **Stations:** 6
- **Backup Power:** 2 x AAA batteries (for time/date retention)
- **Manufacturer:** Rainbird

Warranty and Support

Rain Bird products are manufactured to high-quality standards. For specific warranty information, please refer to the warranty card included with your product or visit the official Rain Bird website. For technical assistance, troubleshooting beyond this manual, or to inquire about replacement parts, please contact Rain Bird customer support directly.

You can find contact information and additional resources on the official Rain Bird website: www.rainbird.com

© 2024 Rain Bird. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question