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Rain Bird ESP-RZX6i-230V

Rain Bird RZX e6i Irrigation Controller User Manual

Model: ESP-RZX6i-230V

1. Introduction

The Rain Bird RZX e6i is an advanced 6-zone irrigation control unit designed for indoor mounting. This controller provides efficient and customizable automatic watering for your garden, ensuring optimal plant health and water conservation. Its user-friendly interface and optional Wi-Fi connectivity make managing your irrigation system simple and convenient.



Image 1: The Rain Bird RZX e6i irrigation controller shown with a smartphone demonstrating its Wi-Fi app compatibility. The controller

features a clear LCD display and intuitive buttons for easy programming.

2. Safety Information

Please read all safety instructions before installing or operating the controller. Failure to follow these instructions could result in electric shock, fire, or other hazards.

- This device is designed for **indoor use only** in a warm and dry environment. Do not expose to rain or moisture.
- Ensure the power supply is disconnected before performing any wiring or maintenance.
- The controller operates on 230 V AC, 50 Hz input. Output is 24 V AC, 650 mA.
- Only use the controller for its intended purpose of irrigation control.

3. Setup

3.1 Mounting the Controller

The Rain Bird RZX e6i controller features a plastic housing designed for easy wall mounting. Only two fixing screws are required for installation.

1. Choose a suitable indoor location, away from direct sunlight, extreme temperatures, and moisture.
2. Mark the positions for the two mounting screws on the wall.
3. Install the screws, leaving a small gap between the screw head and the wall.
4. Hang the controller onto the screws, ensuring it is securely seated.



Image 2: Front view of the Rain Bird RZX e6i controller, ready for wall mounting. The compact design allows for discreet installation in indoor spaces.

3.2 Wiring the System

Before wiring, ensure the main power supply to the controller is disconnected.

- Connect the common wire from your irrigation valves to the common terminal on the controller.
- Connect each zone valve wire to its corresponding zone terminal (1-6) on the controller.
- If applicable, connect the main valve or pump start relay wire to the designated terminal.
- Connect any weather sensor wires to the sensor input terminals.

3.3 Power Connection and Battery Installation

After all wiring is complete, connect the power supply.

- Plug the controller's power cord into a standard 230 V AC, 50 Hz electrical outlet.
- Install two AAA batteries (included) into the battery compartment. These batteries maintain the date and time settings in case of a power outage, ensuring your programs are not lost.

4. Operating the Controller

The RZX e6i features a large LCD display and intuitive navigation buttons for easy programming and operation.



Image 3: A user's hands interacting with the buttons of the Rain Bird RZX e6i controller. The clear button labels and LCD screen facilitate straightforward programming.

4.1 Basic Programming

The controller allows for independent programming of each zone. You can customize the duration, start time, and irrigation days for every zone.

- **Setting Zone Duration:** Adjust watering time from 0 to 199 minutes per zone.
- **Setting Start Times:** Up to 6 independent start times can be set for each zone.
- **Selecting Irrigation Days:** Choose from four options: custom weekdays, odd days, even days, or cyclic (every 1-14 days).

4.2 Manual Operation

You can manually initiate irrigation for all zones or individual zones as needed.

- Press the **MANUAL** button to access manual watering options.
- Select the desired zone(s) and set the manual watering duration.

4.3 Advanced Features

- **Seasonal Adjustment:** Modify watering schedules globally from -90% to +100% to adapt to changing weather conditions without reprogramming individual zones.
- **Contractor Rapid Programming:** This feature allows you to quickly copy start time and irrigation day settings from the first programmed zone to other zones, streamlining initial setup.
- **Contractor Default:** Save and restore your preferred programming settings, useful for quick setup or recovery.
- **Weather Sensor Bypass:** Individually bypass the connected weather sensor for specific zones if desired.

4.4 Wi-Fi Connectivity (Optional)

The RZX e6i is compatible with the Rain Bird LNK Wi-Fi Module (sold separately). This module enables remote control and monitoring of your irrigation system via a smartphone app.

- The LNK Wi-Fi Module allows for daily irrigation customization based on downloaded weather data from the internet.
- Utilizing this feature can lead to water savings of up to 30%.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Rain Bird RZX e6i controller.

- **Battery Replacement:** Replace the two AAA batteries annually or when the low battery indicator appears on the display to ensure date and time retention during power outages.
- **Cleaning:** Wipe the controller's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Environment:** Ensure the controller remains in a warm and dry indoor environment. Protect it from dust, dirt, and extreme temperature fluctuations.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your irrigation controller.

Problem	Possible Cause	Solution
Controller display is blank	No power, faulty power supply, or dead batteries (for display only)	Check power outlet and connections. Replace AAA batteries. Use the electronic diagnostic switch to check internal components.
Zones not watering	Program not set, rain sensor active, wiring issue, or faulty valve	Verify program settings. Check rain sensor status and bypass if necessary. Inspect wiring connections. Test valves manually.
Incorrect watering times/days	Programming error or seasonal adjustment applied	Review and adjust program settings for each zone. Check seasonal adjustment percentage. Consider using the Contractor Default feature to restore known good settings.

Problem	Possible Cause	Solution
Wi-Fi module not connecting	Module not installed, network issue, or app problem	Ensure LNK Wi-Fi Module is correctly installed. Check home Wi-Fi network. Restart controller and module. Consult Rain Bird app support.

For further assistance, refer to the Rain Bird support website or contact customer service.

7. Specifications

- **Model:** ESP-RZX6i-230V
- **Zones:** 6 stations
- **Input Power:** 230 V AC ±10%, 50 Hz
- **Output Power:** 24 V AC, 650 mA
- **Dimensions (W x H x D):** 16.9 cm x 15.0 cm x 3.9 cm (6.65 in x 5.91 in x 1.54 in)
- **Weight:** Approximately 1.36 kg (2.99 lbs)
- **Operating Temperature:** 15°C (59°F)
- **Program Storage:** Permanent (100 years)
- **Batteries:** 2 x AAA (for date and time retention)
- **Seasonal Adjustment Range:** -90% to +100%
- **Zone Duration Setting:** 0-199 minutes

8. Warranty and Support

For detailed warranty information, please refer to the documentation included with your purchase or visit the official Rain Bird website. Warranty terms may vary by region and retailer.
For technical support, product inquiries, or assistance with troubleshooting, please contact Rain Bird customer service or visit their official support portal. Contact information can typically be found on the Rain Bird website or on your product packaging.

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