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Model: ESP-TM2

1. INTRODUCTION

The Rain Bird ESP-TM2 Irrigation Controller is designed for residential irrigation solutions, offering efficient water management. This controller provides an intuitive interface for programming and can be upgraded with a LNK WiFi Module for remote monitoring and control.

2. KEY FEATURES

- **WiFi Connectivity:** Remote monitoring and control via iOS and Android mobile devices with the included LNK WiFi Module.
- **Water Saving:** Internet-based weather information can be used to make daily adjustments to the irrigation schedule, potentially saving up to 30% in water (with LNK WiFi Module).
- **Flexible Programming:** 3 available programs with up to 4 start times each, allowing for tailored watering schedules.
- **Manual Watering:** One-touch manual watering capability for immediate irrigation needs.
- **Clear Display:** Large back-lit LCD display for improved visibility in various lighting conditions.
- **Contractor Default:** Easily save and restore custom schedules.
- **Delay Watering:** Option to delay watering up to 14 days with automatic resumption.
- **Rain Sensor Bypass:** Customize which stations react to a rain sensor.
- **Seasonal Adjust:** Easily reduce or increase watering by program.

3. SETUP AND INSTALLATION

This section outlines the steps for installing and initially setting up your ESP-TM2 controller.

3.1. Mounting the Controller

The ESP-TM2 controller is suitable for both indoor and outdoor installation. Ensure the mounting location is secure and allows for easy access to wiring and controls.



Figure 1: Rain Bird ESP-TM2 Controller with cover open.

3.2. Wiring Connections

Before making any electrical connections, ensure the power supply is turned off at the circuit breaker.

1. **Power Wiring:** Connect the 120V AC power supply wires to the controller's power terminals. Ensure proper connection of hot, neutral, and ground wires.
2. **Zone Wires:** Connect the individual zone valve wires to the corresponding station terminals (STA1, STA2, etc.).
3. **Common Wire:** Connect the common wire from your valves to the 'C' terminal.
4. **Sensor Wires (Optional):** If using a rain sensor, connect its wires to the SENS terminals.



Figure 2: Internal wiring terminals of the ESP-TM2.

3.3. LNK WiFi Module Installation

The LNK WiFi Module allows for smart control features. Insert the module into the designated port on the controller. Refer to the LNK WiFi Module's separate instructions for app setup and configuration.



Figure 3: ESP-TM2 Controller with LNK WiFi Module.

4. OPERATING THE CONTROLLER

The ESP-TM2 features a user-friendly dial and button interface for easy programming.

4.1. Setting Date and Time

Turn the dial to the **Date/Time** position. Use the arrow buttons to adjust the current date and time. Press the **Program Select** button to confirm.

4.2. Programming Watering Schedules

The controller supports 3 independent programs (A, B, C) with up to 4 start times per program.

1. **Select Program:** Turn the dial to **Program Select**. Use the **Program Select** button to choose Program A, B, or C.
2. **Set Start Times:** Turn the dial to **Start Times**. Use the arrow buttons to set up to four start times for the selected program.
3. **Set Run Times:** Turn the dial to **Run Times**. Select each station (1-4) and use the arrow buttons to set the watering duration in minutes.
4. **Set Water Days:** Turn the dial to **Water Days**. Choose your preferred watering schedule:
 - **Custom Days:** Select specific days of the week.

- **Odd/Even Days:** Water on odd or even calendar days.
- **Cyclic:** Water every X days.

You can also set **Permanent Days Off** to prevent watering on specific days, regardless of the schedule.

4.3. Manual Watering

To manually water, turn the dial to **Manual Watering**. You can choose to water all stations or select individual stations and set their run time. Hold the **Program Select** button to start manual watering.

4.4. Seasonal Adjust

Turn the dial to **Seasonal Adjust**. Use the arrow buttons to increase or decrease watering duration for all programs by a percentage (e.g., 100% for normal, 50% for half, 150% for more).

4.5. Rain Sensor Bypass

The controller allows you to bypass the rain sensor for specific stations. This is useful if certain areas require watering even when rain is detected. Refer to the full manual for detailed instructions on configuring sensor bypass.

5. MAINTENANCE

The Rain Bird ESP-TM2 controller is designed for durability. Regular maintenance is minimal but important for optimal performance.

- **Cleaning:** Periodically wipe the controller's exterior with a soft, damp cloth. Avoid abrasive cleaners.
- **Connection Check:** Annually, inspect all wiring connections to ensure they are secure and free from corrosion.
- **Battery (if applicable):** If your model includes a backup battery, check and replace it as recommended in the full product manual to maintain time and program settings during power outages.

6. TROUBLESHOOTING

If you encounter issues with your ESP-TM2 controller, consider the following common solutions:

- **No Display/Power:** Check the power connection and circuit breaker. Ensure the controller is receiving 120V AC power.
- **Zones Not Watering:** Verify that the controller is in AUTO mode, programs are set correctly, and start times are active. Check for tripped circuit breakers or issues with individual valve wiring. Ensure the rain sensor is not active if watering is desired.
- **Incorrect Watering Duration:** Review the run times set for each station in the 'Run Times' dial position. Check the 'Seasonal Adjust' setting.
- **WiFi Connectivity Issues:** Ensure the LNK WiFi Module is properly installed and your home WiFi network is active. Refer to the LNK WiFi Module manual for specific troubleshooting steps.

For more detailed troubleshooting, please consult the complete Rain Bird ESP-TM2 manual or contact Rain Bird customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	Rain Bird
Model	ESP-TM2
Voltage	12 Volts (DC)
Product Dimensions (L x W x H)	1"L x 1"W x 2"H
Material	Plastic
Display Type	LCD
Operating Temperature	Up to 149 Degrees Fahrenheit
Item Weight	1.67 Kilograms
UPC	857447008126

8. WARRANTY AND SUPPORT

For warranty information, product registration, or technical assistance, please visit the official Rain Bird website or contact their customer support directly. Keep your purchase receipt for warranty claims.

Visit the [Rain Bird Store on Amazon](#) for more products and information.