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Rain Bird ESP-TM2

Rain Bird ESP-TM2 Irrigation Controller User Manual

Model: ESP-TM2

Brand: Rain Bird

Introduction

The Rain Bird ESP-TM2 irrigation controller is designed for residential irrigation solutions, offering efficient water management. This controller integrates simple programming features with advanced capabilities, including Wi-Fi connectivity via the LNK WiFi Module, allowing for remote control and automatic weather adjustments. It is suitable for both indoor and outdoor installations.



Figure 1: Rain Bird ESP-TM2 Irrigation Controller with LNK WiFi Module.

Setup and Installation

The ESP-TM2 controller is designed for quick and straightforward installation. It can be installed in either indoor or outdoor environments and comes with a factory-installed 6-foot outdoor-rated power cord for convenience.

Mounting the Controller

1. Choose a suitable location for installation, ensuring it is protected from direct sunlight and extreme weather if installed outdoors without additional enclosure.
2. Securely mount the controller to a wall using appropriate anchors and screws.

Wiring Connections

Carefully connect the irrigation zone wires to the corresponding terminals inside the controller. Ensure each zone wire is matched correctly to its designated terminal. The controller supports up to 8 zones.



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

Connect the common wire to the 'C' terminal. If using a rain sensor, connect it to the designated sensor terminals. The LNK WiFi Module can be inserted into its dedicated port for Wi-Fi functionality.

Operating the Controller

The ESP-TM2 features an intuitive interface with a large, backlit LCD display for clear visibility in various lighting conditions. Programming can be completed in as few as three steps.

Basic Programming

- **Set Date/Time:** Use the dial to select 'Date/Time' and adjust using the arrow buttons.
- **Set Start Times:** The controller supports up to 4 start times per program. Rotate the dial to 'Start Times' and set the desired times for each program (A, B, C).
- **Set Run Times:** For each zone, specify the duration of watering. Select 'Run Times' on the dial and adjust the minutes for each zone.
- **Set Water Days:** Choose specific days of the week, odd/even days, or cyclic watering schedules.

Advanced Features

- **Seasonal Adjust:** Modify watering durations across all programs by a percentage to account for seasonal changes without reprogramming.
- **Delay Watering:** Temporarily suspend watering for up to 14 days. Watering will automatically resume after the set delay.
- **Contractor Default:** Save and restore custom watering schedules, useful for quick setup or recovery after a reset.

Wi-Fi Connectivity and App Control

The included LNK WiFi Module enables remote control and monitoring of your irrigation system via a smartphone app. This allows for:

- Remote programming and adjustments from anywhere with an internet connection.
- Automatic weather adjustments, which can optimize watering schedules and potentially save up to 50% in water usage.
- Real-time system status and alerts.

For app setup, download the Rain Bird app and follow the in-app instructions to connect your controller.

Maintenance

Regular maintenance ensures optimal performance and longevity of your Rain Bird ESP-TM2 controller.

- **Cleaning:** Periodically wipe down the exterior of the controller with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Inspections:** Annually inspect all wiring connections for corrosion or damage. Ensure the LNK WiFi Module is securely seated.
- **Software Updates:** Keep the Rain Bird app updated to the latest version to access new features and improvements.

Troubleshooting

This section addresses common issues you might encounter with your ESP-TM2 controller.

Problem	Possible Cause	Solution
Controller display is blank	No power or power supply issue.	Check power connection and outlet. Ensure the power cord is securely plugged in.
Zones not watering	Program not set, rain sensor active, or wiring issue.	Verify program settings. Check if rain sensor is activated (bypass if necessary). Inspect zone wiring for shorts or disconnections.
Wi-Fi connection lost or unstable	Weak Wi-Fi signal, router issues, or LNK module not properly seated.	Ensure controller is within strong Wi-Fi range. Restart your router. Re-seat the LNK WiFi Module. Reconnect via the app.
Incorrect watering schedule	Incorrect program settings or seasonal adjust.	Review and adjust Date/Time, Start Times, Run Times, and Water Days settings. Check Seasonal Adjust percentage.

Specifications

- **Item Weight:** 1.64 Kilograms (3.61 pounds)
- **Display Type:** LCD
- **Operating Temperature:** 65 Degrees Celsius
- **UPC:** 857447008140
- **Manufacturer:** Rain-Bird
- **Product Dimensions:** 2 x 1 x 1 inches (2"L x 1"W x 1"H)
- **Batteries:** 1 Lithium Metal battery required (included)
- **Color:** White
- **Brand:** Rain Bird
- **Voltage:** 12 Volts

- **Material:** Plastic

Warranty and Support

For detailed warranty information, please refer to the documentation included with your product or visit the official Rain Bird website. Rain Bird offers various protection plans for extended coverage.
For technical support, troubleshooting assistance, or to purchase accessories, please visit theRain Bird Store on Amazon or their official support channels.

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