RAINPOINT RP-TTV103WRF + TWG004WRF

RAINPOINT Smart WiFi Irrigation Computer User Manual

MODEL: RP-TTV103WRF + TWG004WRF

1. INTRODUCTION

Thank you for choosing the RAINPOINT Smart WiFi Irrigation Computer. This device allows you to manage your garden's watering schedule remotely via a smartphone application or voice commands, ensuring your plants receive optimal hydration. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to help you get the most out of your new irrigation system.

Key Features:

- Easy programming via the RainPoint App (Android, iOS).
- Smart irrigation with weather sensing and rain delay functions.
- Three individual watering programs for flexible scheduling.
- Two watering modes: Irrigation and Mist, with built-in water flow meter.
- Family co-management for shared control.
- Voice control compatibility (Alexa, Google Assistant).

2. PRODUCT OVERVIEW

The RAINPOINT Smart WiFi Irrigation Computer system consists of a WiFi water timer and a WiFi gateway (hub). The timer connects to your outdoor faucet, and the gateway connects to your home's 2.4GHz WiFi network.

Image: The main components of the RAINPOINT Smart WiFi Irrigation Computer system, including the water timer, WiFi gateway, and the mobile application interface.

Components:

- WiFi Water Timer (RP-TTV103WRF)
- WiFi Gateway (TWG004WRF)
- User Manual

3. SETUP

3.1 App Download and Account Creation

Download the 'RainPoint' app from the App Store (iOS) or Google Play Store (Android). Follow the in-app

instructions to create an account and log in.

3.2 Connecting the WiFi Gateway

Plug the WiFi Gateway into a power outlet within range of your 2.4GHz WiFi router. The gateway must connect to a 2.4GHz network; 5GHz networks are not supported for initial setup. If your router broadcasts both, you may need to temporarily disable the 5GHz band during setup or ensure your phone is connected to the 2.4GHz band.

Image: Illustration of the RFID and WiFi connection process, emphasizing stable control via the app.

Open the RainPoint app, select 'Add Device', and follow the prompts to connect the gateway to your WiFi network. Ensure the gateway's indicator light is blinking as instructed for pairing mode.

3.3 Installing the Water Timer

Screw the WiFi Water Timer onto any standard outdoor faucet. Ensure the connection is secure to prevent leaks. The timer requires 4 AA batteries (not included). Insert them into the battery compartment, ensuring correct polarity.
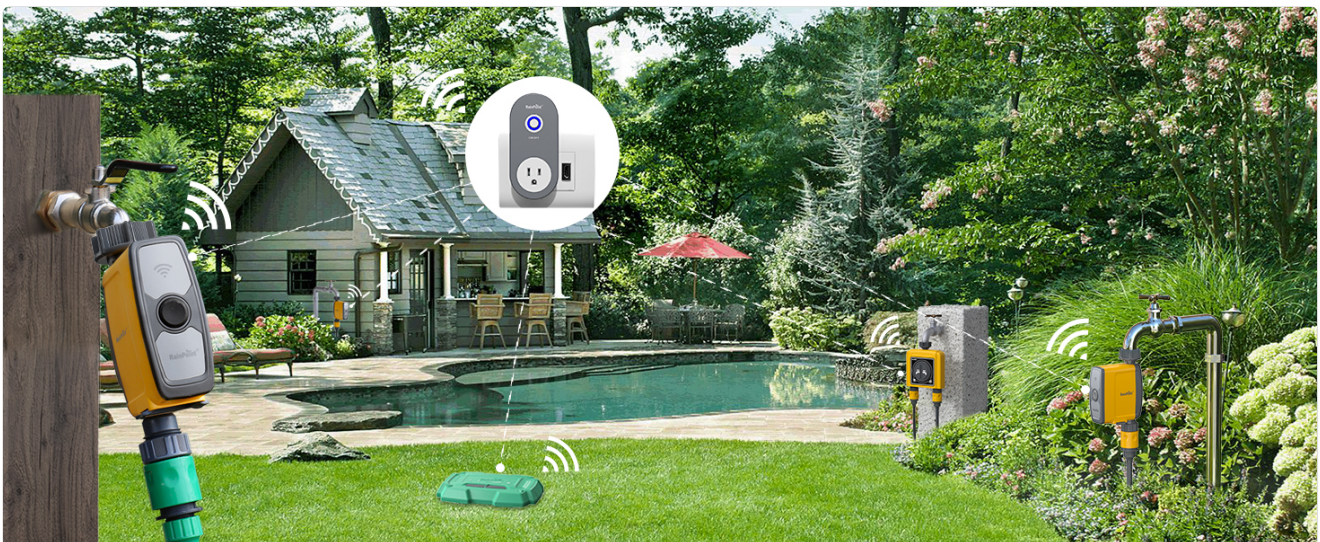

Image: A comprehensive view of the RainPoint system deployed in a large garden, showing the interconnectedness of the timer, gateway, and optional soil sensor.

3.4 Pairing the Water Timer with the Gateway

Once the gateway is connected, use the RainPoint app to add the water timer. The app will guide you through the pairing process, which typically involves pressing a button on the timer to activate its pairing mode.

4. OPERATING INSTRUCTIONS

4.1 App Programming

The RainPoint app is your primary interface for controlling the irrigation computer. You can set up and manage watering schedules from anywhere at any time.

Image: The RainPoint app interface demonstrating various automation options, including scheduled watering, weather-based adjustments, and manual triggers.

4.2 Smart Irrigation and Rain Delay

The system can check local weather forecasts and automatically adjust or delay watering schedules to conserve water. This feature helps prevent overwatering during rainy periods.

Image: The smart irrigation feature with rain delay, showing how the system can automatically skip unnecessary watering based on weather conditions.

4.3 Individual Watering Programs

Set up to three separate watering programs (Plan A, Plan B, Plan C) with different start times, frequencies, and durations. This allows for customized watering for different areas of your garden.
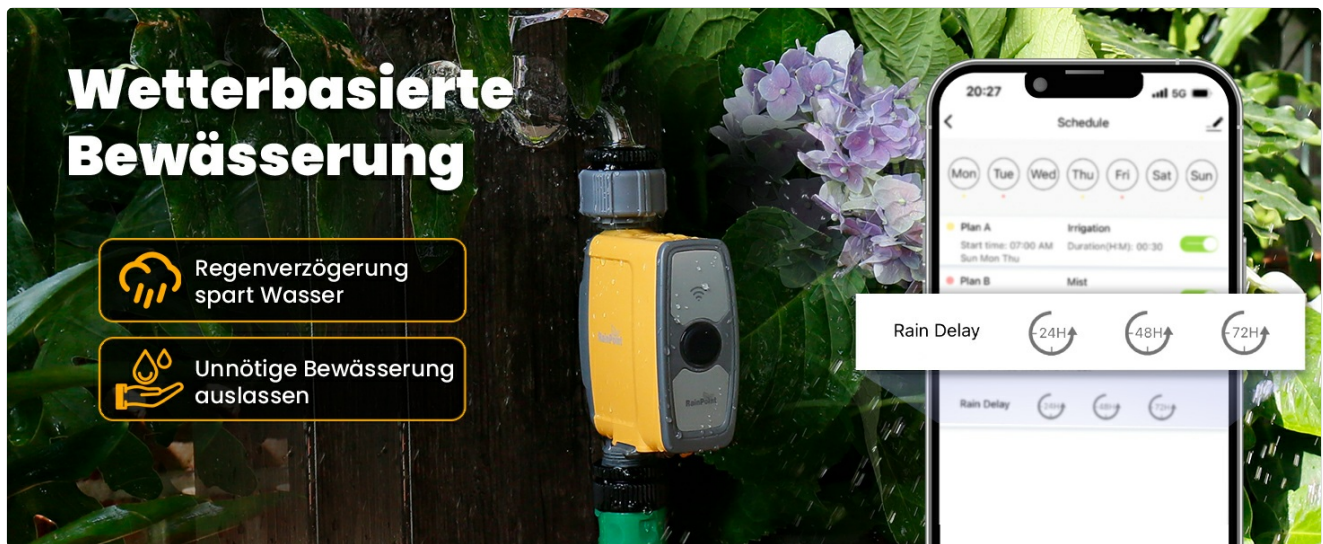
Image: The app's scheduling interface, illustrating the ability to set up multiple, distinct watering programs with specific start times and durations.

4.4 Watering Modes and Water Flow Meter

The timer features two watering modes: Irrigation and Mist. An integrated water flow meter tracks water usage, providing data for efficient water management.

Image: The built-in water flow meter feature, showing a graph of water consumption over time, enabling users to track and save water.

Image: The 'Irrigation Mode' for continuous watering, suitable for lawns, pool filling, and flower beds, with adjustable start time, run time, and watering days.

Image: The 'Mist Mode', ideal for misting systems, offering options for cooling, misting irrigation, and dust removal with customizable mist periods and intervals.

4.5 Voice Control

Integrate your RAINPOINT system with voice assistants like Amazon Alexa or Google Assistant for convenient hands-free control. Voice commands can turn the timer on or off.

Image: Demonstrates voice control functionality, allowing users to activate or deactivate the timer using voice commands via smart speakers.

4.6 Family Co-Management

Share control of your irrigation system with family members by adding them to your RainPoint account. This allows multiple users to manage the watering schedule.

Image: The family co-management feature, enabling multiple family members to share control and manage the irrigation system together.

4.7 Manual Watering

You can manually start or stop watering directly from the timer's button or through the app without interrupting your programmed schedule.

Image: Manual watering options, allowing users to start watering directly from the timer or via the app for a specified duration without affecting the programmed schedule.

4.8 Soil Moisture Integration (Optional)

For advanced control, the system can connect with a RainPoint WiFi Soil Sensor (sold separately). This allows for watering based on actual soil moisture levels, promoting healthier plant growth and further water conservation.

Image: Integration with a soil moisture sensor, enabling watering based on real-time soil conditions to optimize plant health.

5. MAINTENANCE

5.1 Battery Replacement

The water timer is powered by 4 AA batteries. When the battery level is low, the app will notify you. Replace all batteries with new ones, ensuring correct polarity. It is recommended to use high-quality alkaline batteries for optimal performance and lifespan.

5.2 Cleaning

Periodically clean the exterior of the water timer and gateway with a soft, damp cloth. Do not use abrasive cleaners or submerge the devices in water.

5.3 Winterization

Before the first frost, disconnect the water timer from the faucet. Remove the batteries and store the timer and gateway indoors in a dry, protected area to prevent damage from freezing temperatures.

6. TROUBLESHOOTING

6.1 Connectivity Issues

- **Gateway not connecting to WiFi:** Ensure your router is broadcasting a 2.4GHz WiFi signal. Many modern routers combine 2.4GHz and 5GHz bands under one name. You may need to temporarily disable the 5GHz band in your router settings during initial setup, or ensure your smartphone is connected to the 2.4GHz band when pairing.
- **Timer not pairing with Gateway:** Ensure the timer is within range of the gateway. Check that the timer has fresh batteries and is in pairing mode as indicated by its light.
- **App shows device offline:** Check the power supply to the gateway and the batteries in the timer. Verify your home internet connection is stable.

6.2 No Water Flow

- **Check water supply:** Ensure the faucet is fully open.
- **Battery level:** Low batteries can prevent the valve from opening. Replace them.
- **Manual override:** Try manually opening the valve via the app or the timer button to check if the valve mechanism is working.
- **Debris:** Check the filter washer at the inlet of the timer for any debris that might be blocking water flow. Clean if necessary.

6.3 Incorrect Watering Schedule

- **Review app settings:** Double-check your programmed schedules in the RainPoint app for correct start times, durations, and frequencies.
- **Rain Delay/Smart Irrigation:** If enabled, these features might be overriding your schedule based on weather conditions or soil moisture. Check their status in the app.
- **Time synchronization:** Ensure your app and device time are synchronized.

7. SPECIFICATIONS

Feature	Specification
Model Number	RP-TTV103WRF + TWG004WRF
Product Dimensions	15 x 12 x 5.2 cm

Feature	Specification
Product Weight	530 Grams
Batteries Required	Yes (4 x AA for timer)
Material	Plastic
Color	Orange
Wireless Connectivity	2.4 GHz WiFi

8. WARRANTY & SUPPORT

RAINPOINT products are designed for durability and reliability. For warranty information and technical support, please refer to the contact details provided on the product packaging or visit the official RAINPOINT website. Keep your purchase receipt as proof of purchase for warranty claims.

For further assistance, you may also refer to the frequently asked questions section within the RainPoint app or online support resources.