

RAINPOINT HTV145FRF+HWG023WBRF

RAINPOINT WiFi Water Timer HTV145FRF with WiFi Gateway HWG023WBRF - Instruction Manual

Model: HTV145FRF + HWG023WBRF | Brand: RAINPOINT

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your RAINPOINT WiFi Water Timer (Model HTV145FRF) and its accompanying WiFi Gateway (Model HWG023WBRF). This smart watering system is designed to automate your garden, lawn, or yard irrigation, offering convenience and water efficiency.

1.1 What's in the Box

- 1x RAINPOINT WiFi Water Timer (HTV145FRF)
- 1x RAINPOINT WiFi Gateway (HWG023WBRF) with antenna
- 1x Type-C USB cable for Gateway
- 1x Power Adapter for Gateway
- 1x User Manual
- 1x Quick Guide
- Additional accessories: Teflon tape, extra filter, extra O-rings

Note: 4 new AA (1.5V) alkaline batteries are required for the timer and are not included.

2. SETUP

Before starting, ensure your smartphone is connected to a 2.4GHz WiFi network. Keep your WiFi hose timer, WiFi gateway, smartphone, and router close to each other to ensure a strong WiFi signal during setup.

2.1 App Installation

Download the "RainPoint Home" app from your device's app store. You can search for "RainPoint Home" or scan the QR codes provided in the Quick Guide or User Manual.

After installation, open the app and either register a new account or log in with an existing one. Agree to the User Agreement and Privacy Policy.

2.2 Connecting the WiFi Gateway

1. Power on the WiFi Gateway with the Type-C USB cable and power adapter. Place it close to your router and the timer.
2. Press and hold the button on the Gateway until the WiFi connecting indicator light flashes BLUE quickly.
3. Open the RainPoint Home app, select "Add Device", find "HWG023WBRF" under the "Hub" category, and follow the app instructions to complete the connection.

Your browser does not support the video tag.

Video: Demonstrates the process of installing the RainPoint Home app and connecting the WiFi Gateway to your home network.

2.3 Connecting the Water Timer

1. Insert 4 new AA alkaline batteries (not included) into the battery compartment of the timer.
2. In the RainPoint Home app, tap the Gateway icon on the homepage to enter the Gateway homepage. Tap "Add Device" and then "Add New Devices" to add the WiFi timer.
3. Find and select "HTV145FRF" under the "Controller" category to add it.
4. Press and hold the button on the timer until the RED LED indicator flashes rapidly (2 times per second). Then click "Next" in the app, and it will start pairing the timer automatically.

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Video: Illustrates how to install batteries in the water timer and connect it to the previously set up WiFi Gateway via the app.

2.4 Physical Installation

Attach the timer inlet parallel to your outdoor faucet/spigot. Hand tighten only to prevent damage. From the timer outlet, connect a drip irrigation system or a garden hose.

MORE STABLE GATEWAY

Transmit up to **250** meters & penetrate **3-4** walls



Image: The RAINPOINT WiFi Water Timer securely attached to an outdoor faucet, ready for hose connection.

Warning:

- The WiFi timer can only be used for cold water.
- The WiFi timer uses a 433MHz RF connection to communicate with the WiFi Hub, and must be within a 820ft range, line of sight, of the WiFi Hub. If there are walls, iron gates, or bushes blocking, please shorten the distance between them to better receive the signal.
- Soil will absorb WiFi and RF signals; the best location of the timer is on the faucet 4 to 8 feet (1.2 to 2.4 meters) above the ground.
- Do not place the WiFi timer in an underground valve box or anywhere your WiFi and RF signal will be obstructed.
- Under freezing weather, the water timer should be removed from the tap and placed properly indoor to avoid any danger of freezing.

3. OPERATING THE RAINPOINT WiFi WATER TIMER

Once connected, you can program and control your timer using the RainPoint Home app.

3.1 Multiple Watering Plans & Modes

The app allows you to set up to 6 watering plans with 3 distinct watering modes:

- **Normal Irrigation:** Continuous one-time irrigation. Set a start time and duration (1 minute to 12 hours).
- **Interval Irrigation:** Intermittent water spraying realized by switching valves on and off at intervals. Useful for cooling, dust removal, or water-saving irrigation. Set run time (5 seconds to 60 minutes) and interval (5 seconds to 60 minutes).
- **Cycle & Soak:** Splits the total watering time into multiple short cycles with breaks in between to allow the soil to absorb water and improve watering efficiency. Set cycle duration (1 minute to 12 hours) and soak duration (1 minute to 12 hours).

You can tailor your watering routine with 5 frequency options: every day, odd days, even days, interval (every 2-30 days), or custom (e.g., every Monday).



Image: An illustration of the RainPoint Home app interface displaying various custom watering options and modes.

3.2 Manual Watering

You have two ways to manually water without interrupting your scheduled plans:

- **Timer Button:** Press the button on the timer unit to manually start or stop watering.
- **App Control:** Use the "Manual" section in the app to set a duration for immediate watering.

WHY CHOOSE RAINPOINT?

At RAINPOINT, we create intelligent irrigation solutions that save water, protect your plants, and make gardening effortless for everyone.

270k+
More Than 270K+
Global Users

20+
Sales to 20+
Countries and Regions

24H
Local Customer
Service



CONGRATULATIONS – YOU'RE A WINNER!

Dear Madison

We're pleased to formally announce that you have won in the 2026 CES Picks Awards!

Winning Entry Details: RainPoint
Manufacturer Name: RainPoint
Category: TWICE Picks

Image: A visual guide demonstrating both the physical button and app control for manual watering.

3.3 Weather-Based Watering & Seasonal Adjustment

The watering schedule can be automatically adjusted based on local weather data (weather, soil moisture, temperature, humidity). This helps prevent over-watering or under-watering.

- **Rain Delay:** Automatically delays watering by 1-30 days during rainy periods.
- **Seasonal Adjustment:** Automatically adjusts watering duration monthly based on a percentage you set (10%-200%), eliminating the need for repeated manual adjustments.

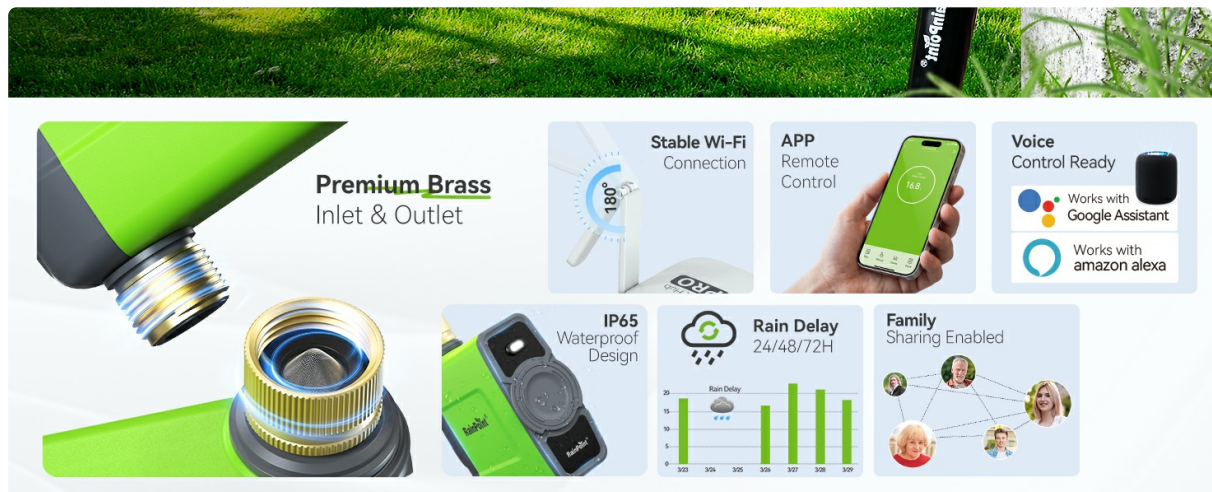


Image: Depicts the weather-based watering features, including rain delay, temperature adjustments, and humidity response.

3.4 Smart Scenes

Create custom smart scenes to automate your irrigation system further. For example, you can set a scene to water when soil moisture falls below a certain threshold (requires a compatible soil moisture sensor, sold separately).

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Video: Demonstrates how to connect the timer and an optional soil moisture sensor to the Gateway and set up smart scenes for automated watering based on soil conditions.

3.5 Voice Control

The WiFi irrigation controller is compatible with Alexa and Google Assistant, allowing you to control your watering system using voice commands.

CONTROL WITH JUST A TAP

Manage Your Garden Anywhere

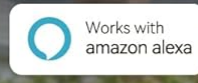
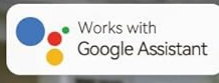


Image: The RainPoint Home app interface with icons for Google Assistant and Amazon Alexa, indicating voice control compatibility.

3.6 Water Usage Tracking & Alerts

The built-in high-precision water flow meter tracks water usage for the last day, past 30 days, and 12 months with an error of $\pm 5\%$. This data helps you create efficient watering schedules and manage water consumption.

24-hour flow monitoring provides instant notifications if the smart water timer fails to open or close, or goes offline.

WATERING MADE EFFORTLESS

Automatically Adjusts to Weather Conditions

 **Weather**
Heavy rain → Plan delay



 **Temperature**
> 95°F → Ext of 15 Mins




 **Humidity**
> 60% → Turn off



Image: The RainPoint Home app displaying water usage data in chart format, with options to view 30-day or 12-month history.

4. MAINTENANCE

4.1 Battery Replacement

The timer requires 4 AA alkaline batteries. Replace them when the low battery alert is received via the app to ensure continuous operation.

4.2 Filter Cleaning

The smart hose timer features a built-in metal filter to resist clogging. Periodically check and clean the filter to maintain optimal water flow and prevent blockages.

4.3 Winterization

During freezing weather, remove the water timer from the tap and store it indoors in a dry, protected area to prevent damage from freezing temperatures.

5. TROUBLESHOOTING

- **No Water Flow:** Ensure the outdoor faucet is fully open. Check battery level in the app. Verify the timer is correctly installed and not clogged.
- **Weak Signal/Disconnection:** Ensure the Gateway is within 820ft line-of-sight of the timer and your WiFi router. Reduce obstructions like walls or metal gates. Ensure your phone is connected to a 2.4GHz WiFi network during setup.
- **Timer Not Responding:** Check battery level. Reset the timer by pressing and holding the button until the LED flashes rapidly, then re-pair with the Gateway.
- **Leakage:** Ensure all connections are hand-tightened. Use Teflon tape and check O-rings for proper sealing. The durable brass inlet and outlet are designed for enhanced leak-proof performance.
- **App Issues:** Ensure the RainPoint Home app is updated to the latest version. For iOS, requirement is 11.0 or later. For Android, requirement is OS 6.0 or later.

6. SPECIFICATIONS

6.1 WiFi Water Timer (HTV145FRF)

- **Range Between Gateway And Timer:** An open distance up to 250m/820ft
- **Working Water Pressure:** 0.5 bar to 8 bar (7.25-116PSI)
- **Water Flow Rate:** 5-35 L/Min (1.32-9.25GAL/Min)
- **Working Temperature Range:** 3°C-50°C (37.4°F-122°F)
- **Powered By:** 4 * AA alkaline batteries (not included)
- **Waterproof Level:** IP65
- **Water Inlet:** NH (US) for 3/4" faucets, BSP (EU) for 3/4" or 1" faucets
- **Water Outlet:** For 3/4" standard garden hose
- **Material:** Brass Inlet and Outlet
- **Product Dimensions:** 4.7"D x 3.4"W x 7"H

6.2 WiFi Gateway (HWG023WBRF)

- **Distance Between Gateway And Router:** 220m (722ft)
- **Powered By:** Type C plug-in power supply
- **Working Temperature Range:** 3°C-40°C (37.4°F-104°F)
- **WiFi Frequency Band:** 2.4GHz (Only Support 2.4GHz WiFi)

7. WARRANTY AND SUPPORT

The RAINPOINT WiFi Water Timer comes with a 1-year manufacturer's warranty.

For any questions, technical support, or warranty claims, please refer to the contact information provided in your User Manual or visit the official RAINPOINT website.

You can also find setup videos and customer support resources online.