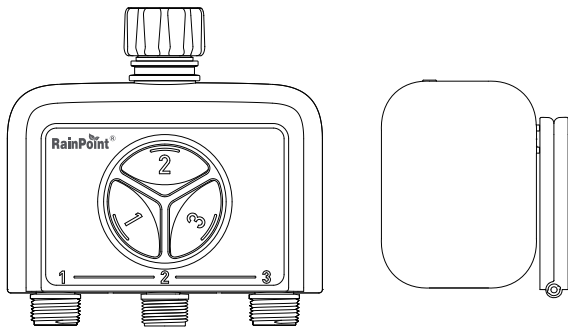


3-Zone Wi-Fi Water Timer with Gateway Kit

USER MANUAL



Model No. HTV345FRF + HWG023WBRF



Email
service@rainpointonline.com



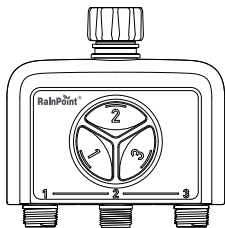
Hotline
US: +1 833-381-5659
DE: +49 800-182-0576
UK: +44 20-4628-3036

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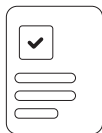
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1. INTRODUCTION

1.1 Package Contents



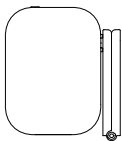
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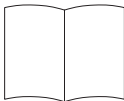
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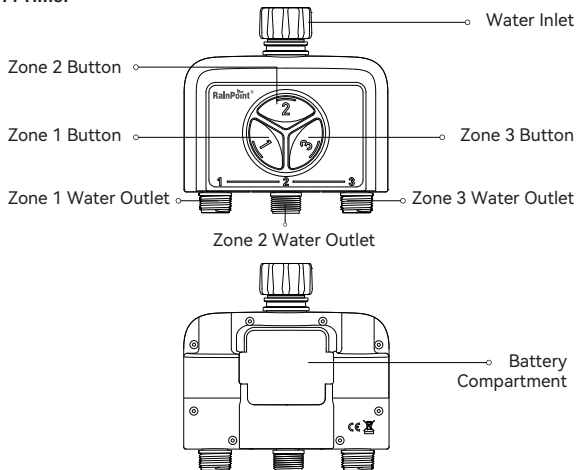
(EU market only)

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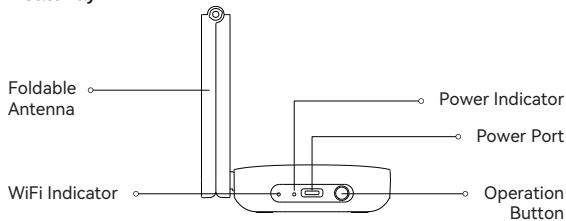
1. 1 × HTV345FRF 3-Zone Wi-Fi Water Timer
2. 1 × HWG023WBRF Wi-Fi Gateway
3. 1 × Quick Start Guide
4. 1 × User Manual
5. 1 × USB Type-C cable
6. 3 × Tap Connectors (3/4" BSP thread; EU market only)

1.2 Product Overview

Wi-Fi Timer



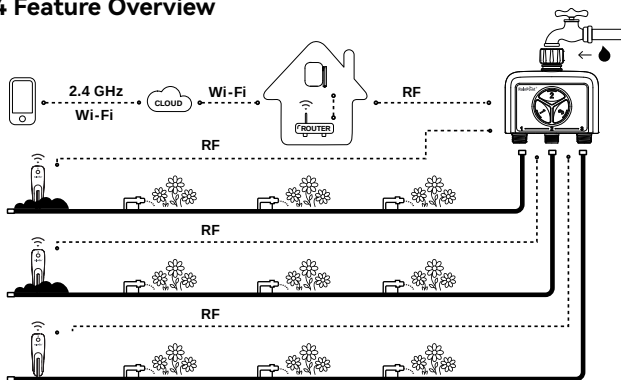
Wi-Fi Gateway



1.3 Specifications

Wi-Fi Timer	
PARAMETERS	VALUES
Range Between Gateway and Timer	Up to 492 ft (150 m) in open areas
Operating Water Pressure	7–116 psi (0.5–8 bar)
Water Flow Rate	1.32–9.25 gpm (5–35 L/min)
Operating Water Temperature	37–122 °F (3–50 °C)
Power Supply	4 × AA alkaline batteries (not included)
Waterproof Rating	IP65
Water Inlet	3/4" NH female thread (US; fits most standard outdoor faucets); 3/4" or 1" BSP female thread (EU; fits most European outdoor faucets)
Water Outlet	For 3/4" standard garden hose
Wi-Fi Gateway	
PARAMETERS	VALUES
Power Supply	USB-C power adapter
Operating Temperature Range	37.4–104 °F (3–40 °C)
Wi-Fi Frequency Band	2.4 GHz
Mobile Operating System Requirements	iOS 11.0 or later; Android 6.0 or later

1.4 Feature Overview



- 1) **Wi-Fi Remote Control:**
Connects to a 2.4 GHz Wi-Fi network, enabling remote setting and checking of watering schedules via the app.
- 2) **Scheduled Watering:**
Each valve supports up to 6 separate watering schedules, available in all three watering modes.
- 3) **Manual Watering:**
Allows manual start/stop of watering and custom watering duration in any of the three modes.
- 4) **Automatic Smart Watering:**
When the Wi-Fi water timer is paired with a Wi-Fi soil sensor (sold separately), watering can be started or stopped automatically based on soil temperature and moisture data.
After the home address is set in the app, local weather information is synchronized automatically, and the timer can run according to user-defined weather trigger conditions.

- 5) **Rain Delay:**
Supports both manual and automatic rain delay to help prevent overwatering on rainy days.
- 6) **Water Flow Meter:**
Built-in flow meter tracks water usage and provides statistics for the last 30 days or the last year.
- 7) **Three Watering Modes:**
Provides three watering modes to suit different needs: Normal Irrigation, Cycle & Soak, and Misting Irrigation.
- 8) **Family Co-Management:**
Home management in the app allows additional family members to be added with permission to manage garden irrigation together.
- 9) **Status Alerts:**
Low battery, water shortage, and valve fault (e.g., leakage) alerts are sent via the app.
- 10) **Gateway Capacity:**
A single Wi-Fi gateway supports pairing with up to 39 sub-devices in the RainPoint Home product family.
- 11) **Soil Sensor Pairing per Valve:**
Each valve on the Wi-Fi water timer can be paired with one Wi-Fi soil sensor.

2. INSTALLATION AND CONNECTION



Setup Video



Customer Support

Tips: Scan the QR code or visit the links below to access the setup video and customer support for quick installation.

Setup Video:

www.youtube.com/@rainpoint

Customer Support:

www.rainpointonline.com/pages/support

2.1 Installing the App

- 1) On Google Play or the App Store, search for "**RainPoint Home**", or scan the QR code to download and install the app.
- 2) Open the RainPoint Home app and select "**Register**". Follow the on-screen instructions to create an account using an email address.



iOS



Android

RainPoint Home



2.2 Connecting the Gateway to Wi-Fi

2.2.1 Preparation for Connection

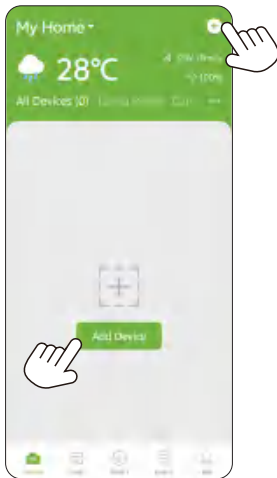
Before connecting the gateway in the **RainPoint Home** app, make sure:

- The smartphone is connected to a **2.4 GHz** private Wi-Fi network (public Wi-Fi is not recommended).
- The smartphone runs **iOS 11.0 or later**, or **Android 6.0 or later**.
- During pairing, keep the gateway and the smartphone within **10 ft (3 m)** of each other.
- To change the Wi-Fi network, reset the gateway and reconnect it in the app. (See section 4 "**Resetting the Device**" for details.)

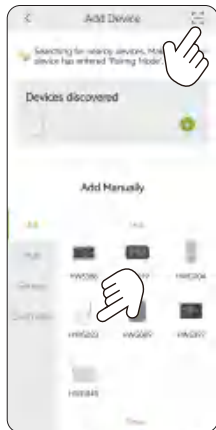
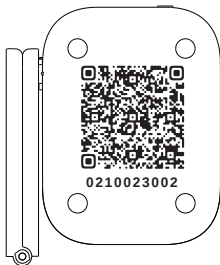
2.2.2 Connection Steps

Follow the steps below to connect the gateway in the **RainPoint Home** app. During the process, keep the gateway close to the Wi-Fi router.

- a. On the app home screen, tap the "+" icon in the upper-right corner, or tap **Add Device** to add a new device.



- b. In the device list, select **"HWG023"** or scan the QR code to proceed.



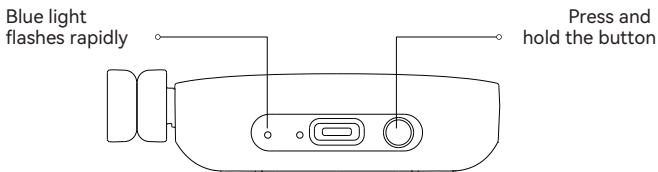
- c. Enter the Wi-Fi password and tap **"Next"**.

Note: Ensure that a 2.4 GHz Wi-Fi network is used for device pairing.

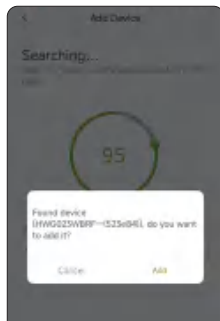
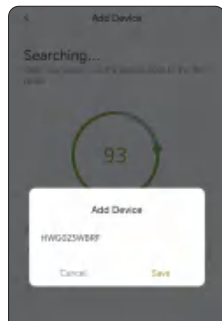
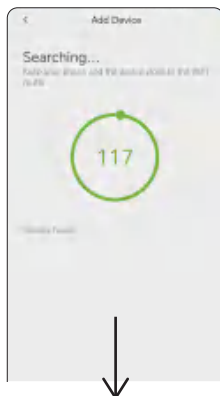
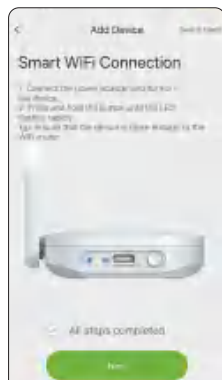
- d. Follow the on-screen instructions to complete the connection.

If the gateway is not in pairing mode, follow these steps:

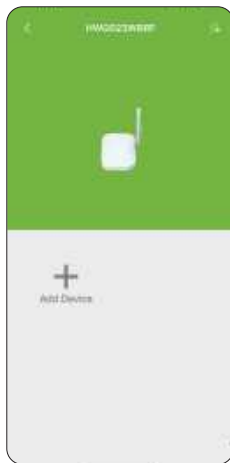
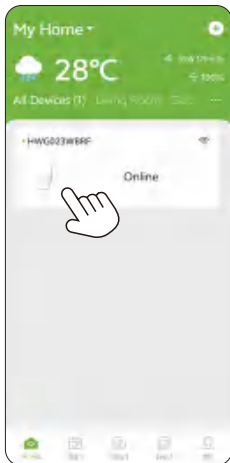
- ① Power the gateway using the USB-C cable.
- ② Press and hold the button until the Wi-Fi indicator on the gateway flashes blue rapidly, indicating that the device is in pairing mode.



- e. In the app, tap **"Next"** to start pairing.

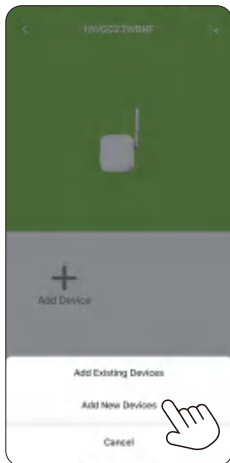
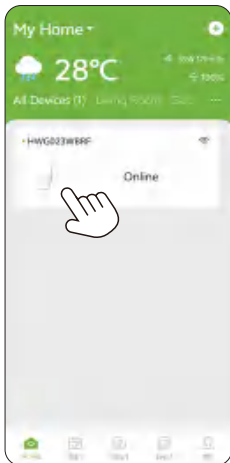


- f. When the device is connected successfully, the gateway icon appears on the app home screen. Tap the gateway icon to open the gateway page and access additional settings.



2.3 Connecting the Timer to the Gateway

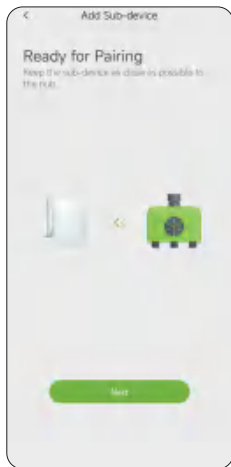
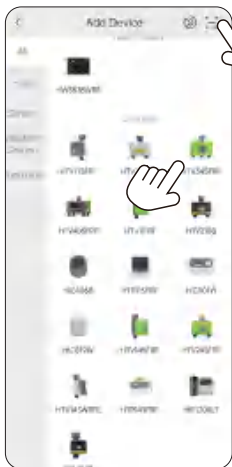
- a. After the gateway has been connected successfully, tap the gateway icon on the app home screen to open the gateway page. Tap **"Add Device"**, then tap **"Add New Devices"** to add the timer as a sub-device of the gateway.



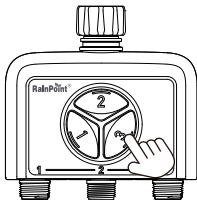
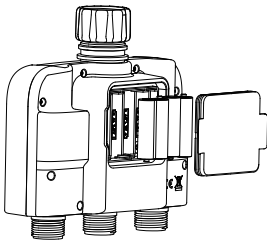
- b. In the device list, select **"HTV345FRF"** to add the device. Alternatively, tap the icon in the upper-right corner to add the device by scanning the QR code or entering its serial number. The app then opens the device pairing preparation page.



0220345300



- c. Install the batteries in the timer, then press and hold any button until the red indicator flashes rapidly, indicating that the timer is in pairing mode.



Battery Installation

Follow the steps below to install the batteries in the timer.

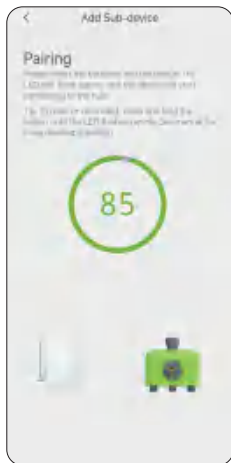
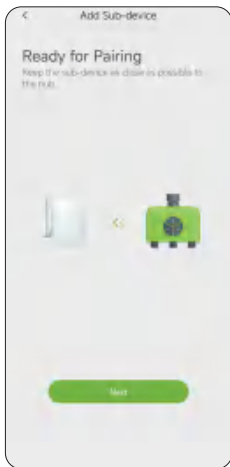
- 1) Open the battery compartment. Insert 4 new AA (1.5 V) alkaline batteries (not included).
- 2) Close the battery compartment cover and press down firmly to ensure it is fully sealed.



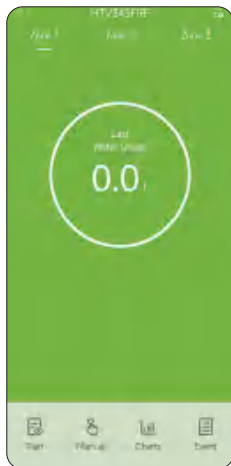
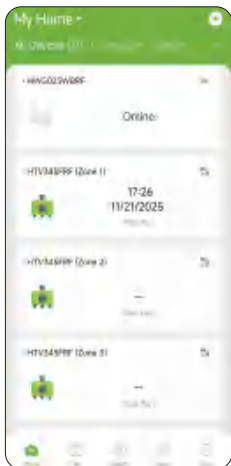
ATTENTION BATTERY SAFETY:

- After installing the batteries, make sure the battery compartment cover is firmly closed to maintain water resistance.
- If the timer will not be used for an extended period, remove the batteries and dispose of them according to local regulations.
- Replace the batteries when the low battery indicator appears on the display.
- Do not throw batteries into fire or expose them to high temperatures, as they may explode or leak.
- For longer service life, use 4 new AA (1.5 V) alkaline batteries (not included).
- Do not mix new and old batteries, or different types such as alkaline, standard (carbon-zinc), or rechargeable batteries.

- d. In the app, tap **"Next"** to start automatic pairing of the timer.

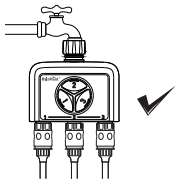


- e. When the timer is connected successfully in the app, the timer icon appears on the app home screen. Tap the timer icon to open the timer page and access additional settings.

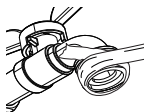
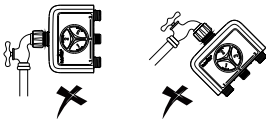


Note: Keep the gateway and the timer close to each other during the pairing process. To re-pair the timer or restore factory settings, press and hold the operation button until the red indicator flashes rapidly to manually enter pairing mode.

2.4 Installing the Timer on the Faucet



- 1) Turn off the garden faucet.
- 2) Attach the timer inlet to the outdoor faucet/spigot and hand-tighten. Keep the timer as upright as possible.
- 3) Connect a drip system or garden hose to the timer outlet.
- 4) Turn on the faucet after programming the timer.

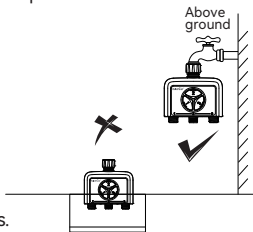


Tip:

- If leakage occurs at the faucet connection, wrap PTFE (Teflon) tape clockwise around the threads and reinstall.
- Install the filter in the correct direction and keep it clean.

Note:

- Install the timer within 492 ft (150 m) line of sight of the Wi-Fi gateway. Obstacles such as walls, metal gates, or dense bushes may reduce the range.
- Install the timer on a faucet above ground level. Do not install in an underground valve box or other enclosed locations.
- Do not use tools; hand-tighten all connections.



Warning:

- For cold water use only. Do not connect to hot water.
- Remove the timer and store indoors during freezing weather.

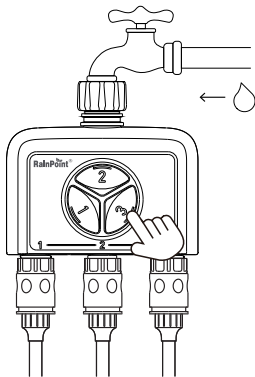
cold ✓

hot ✗

2.5 Activating the Timer Before Use

Before using the timer for the first time, or after it has not been used for an extended period, activate the valves as follows:

- 1) Remove the battery cover and insert 4 AA (1.5 V) alkaline batteries. Then reattach the cover and press firmly to ensure a complete seal.
- 2) Make sure the faucet is closed.
- 3) Press the Zone 1, Zone 2, or Zone 3 button. A clicking sound indicates that the corresponding valve is opened for manual watering.
- 4) After a few seconds, press the same Zone button again. A clicking sound indicates that the valve is closed.
- 5) Test: Slightly open the faucet and press the Zone 1, Zone 2, or Zone 3 button to confirm that water starts and stops as expected.



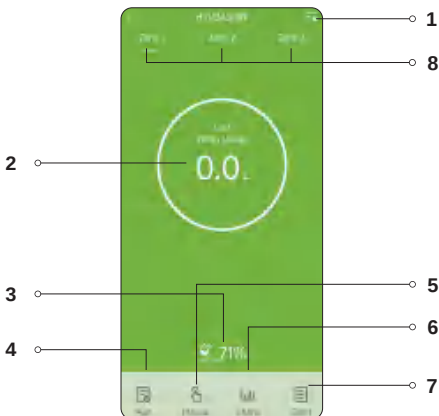
If the test is successful, the timer valves have been activated correctly and the timer is ready for use.

If the test fails, repeat steps 2–4 several times. If the issue persists, contact customer support.

Note: During testing, keep clear of the timer outlet to avoid water splashing.

3. APP INTRODUCTION

Timer Home Screen



1. **Settings**

Tap the settings icon in the upper-right corner to open the device settings page. From this page, a soil sensor can be paired and the watering settings for the device can be customized.

2. **Last Water Usage**

The Wi-Fi water timer includes a built-in water flow meter that calculates water usage. The "Last Water Usage" section displays the volume of water used during the most recent irrigation.

3. **Soil Moisture**

If a soil sensor has been paired with the timer, the current soil moisture level is displayed in this area.

4. **Plan**

Tap "Plan" to open the plan settings page. Up to 6 schedules can be set for each valve.

For each schedule, one of the following watering modes can be selected according to the irrigation needs:

- Normal Irrigation
- Cycle & Soak
- Misting Irrigation

Rain Delay can be set to 24, 48, or 72 hours for rainy days.

Seasonal Adjustment can be used to increase or decrease the watering duration according to seasonal moisture differences.

Tap the **calendar** icon to view all active schedules.

5. **Manual**

Tap "Manual" to perform manual watering.

- Normal Irrigation: Set a one-time manual watering duration from 1 minute to 12 hours, then tap "Confirm" twice to start manual watering.
- Cycle & Soak: Set the watering duration and soaking duration for manual watering.
- Misting Irrigation: Set the run time and interval time from 1 second to 60 minutes according to the irrigation needs.

When manual watering is running, tap "Manual" and then tap "Confirm" to stop watering.

6. **Chart**

Tap "Chart" to view water usage for the last 30 days or for the last year. Tap the download icon in the upper-right corner of the chart to export the data.

7. **Event**
Tap "Event" to view the online/offline status and the irrigation records.
8. **Zone 1 / Zone 2 / Zone 3 Valve**
Tap Zone 1, Zone 2, or Zone 3 to manage schedules and manual watering for the corresponding valve.

4. RESETTING THE DEVICE

4.1 Resetting the Wi-Fi Gateway

- 1) Power on the gateway using the USB-C cable.
- 2) Press and hold the button for about 5 seconds until the blue LED indicator flashes rapidly.

When the blue LED flashes rapidly, the gateway has been reset and has entered pairing mode.

4.2 Resetting the Wi-Fi Timer

- 1) Remove all batteries from the battery compartment.
- 2) Wait for at least 10 seconds, then insert 4 new AA (1.5 V) alkaline batteries into the battery compartment.
- 3) Immediately after the batteries are installed, press and hold the button on the timer.
- 4) Keep holding the button until the LED indicator flashes red rapidly (about two times per second). When the red LED flashes rapidly, the Wi-Fi timer has been reset successfully.

5. MEANING OF LED INDICATORS

5.1 Wi-Fi Gateway LED Indicators

- 1) Power on
 - Power indicator: Solid on
 - Wi-Fi indicator: Flashes once
- 2) Smart network pairing (pairing mode)
 - Power indicator: Solid on
 - Wi-Fi indicator: Flashes rapidly
- 3) Network pairing successful
 - Power indicator: Solid on
 - Wi-Fi indicator: Solid on
- 4) Network pairing failed (pairing timeout)
 - Power indicator: Solid on
 - Wi-Fi indicator: Off
- 5) Gateway disconnected (after successful pairing)
 - Power indicator: Solid on
 - Wi-Fi indicator: Flashes slowly (attempting to reconnect to the network)

5.2 Wi-Fi Timer LED Indicators

- 1) Power on
 - Red and white LEDs: Both turn on for 1 second.
 - Red LED: Then blinks rapidly (0.2 s on / 0.2 s off) to indicate that the timer is starting up and searching for a network.
- 2) Network connection indication
 - Red LED: Blinks rapidly (0.2 s on / 0.2 s off) while the timer is connecting to the network.
 - Successful pairing: White LED stays on for 2 seconds.
 - Failed pairing: Red LED stays on for 2 seconds.
- 3) Long press to restart and enter pairing mode
 - Red LED: Stays on for 2 seconds.

- Red and white LEDs: Both turn on for 1 second.
 - Red LED: Then blinks rapidly, indicating that the timer has entered pairing mode.
- 4) Normal Irrigation mode
 - White LED: Flashes once every 4 seconds.
 - 5) Misting Irrigation mode
 - White LED: Flashes twice every 4 seconds.
 - 6) Cycle & Soak mode
 - Valve open (watering): White LED flashes twice every 4 seconds.
 - Valve closed (soaking): White LED flashes once every 10 seconds.
 - 7) Low battery indication
 - Red LED: Flashes once every 3 seconds (on for 0.1 s), indicating a low battery condition.

6. TROUBLESHOOTING

Wi-Fi Gateway Troubleshooting

ISSUE	SOLUTION
The gateway cannot connect to the network.	• Verify that the Wi-Fi password has been entered correctly. • During setup, keep the gateway and the smartphone close to the Wi-Fi router.
Gateway is disconnected or offline.	• Verify that the Wi-Fi router is functioning properly. • If there was a power outage, ensure the router has restarted correctly, then reconnect the gateway by following the connection steps in this manual. • Check the Wi-Fi signal strength. If the distance between the gateway and the router is too great, move the gateway closer to improve connection stability.
The gateway button is unresponsive.	Contact customer support for assistance.

Wi-Fi Timer Troubleshooting

ISSUE	POSSIBLE CAUSE	SOLUTION
Unable to open the valve.	• Low battery. • Debris in the inlet or filter. • Unstable network or response delay.	• Replace the batteries with new ones. • Clean the inlet/filter regularly to remove debris and prevent interference. • Wait a moment and then try opening the valve again.
Flow meter reading is inaccurate.	• Timer is installed at an angle, causing inaccurate measurement. • Low or unstable water pressure from the faucet.	• Install the water timer vertically. Do not install it at an angle, as this may affect the water volume measurement. • The normal measurement error for water usage is $\pm 5\%$.
Timer cannot connect.	• Wi-Fi network is unstable. • The timer is too far from the gateway. • The timer is not in pairing mode.	• Check that the Wi-Fi network is functioning properly. • During connection, keep the timer close to the gateway and router. • Re-pair the timer: press and hold the timer button until the red LED flashes rapidly to enter pairing mode (or remove the device from the home screen in the app and reconnect it).
Not executing as scheduled.	• Impurities in the water have entered the filter. • Rain delay has been set. • In low-power conditions, the timer may enter protection mode and stop running schedules.	• Clean the inlet/filter regularly to prevent clogging and interference with the irrigation program. • Check whether rain delay has been set. • Replace the batteries with new ones.

7. WARRANTY POLICY

RainPoint provides a 1-year warranty against manufacturing defects in materials and workmanship from the date of purchase.

During the warranty period, products found to be defective under normal use and service, as determined solely by RainPoint, will be replaced free of charge.

To request warranty service, email your order ID to service@rainpointonline.com. A response will be provided within 24 hours on working days.

8. CUSTOMER SUPPORT

For setup difficulties, search "RainPoint" on YouTube to view installation videos.

If the required information is not found in this user manual or further assistance is needed, contact customer support before returning the product to the store. The local customer support team will provide a solution within 24 hours on working days and may arrange a replacement or refund where applicable.

For efficient support, the following information is required:

- Order number
- LOT NO. of the device
- Brief description of the problem

Contact information:

US Hotline: +1 833-381-5659 (Mon–Fri: 9:30 AM–5:30 PM PST)

DE Hotline: +49 800-182-0576 (Mon–Fri: 9:00 AM–5:00 PM CET)

UK Hotline: +44 20-4628-3036 (Mon–Fri: 9:00 AM–5:00 PM CET)

Email: service@rainpointonline.com

Note: The app may be updated or modified over time, which may result in changes to certain pages or names. For the most accurate information, refer to the current screens in the app or contact customer support for assistance.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are intended to provide reasonable protection against harmful interference in a residential installation. However, there is no guarantee that interference will not occur in a particular installation.

If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a different circuit from the one to which the receiver is connected.

If necessary, the user should consult the dealer or a qualified radio/TV technician for additional help. Changes or modifications to this device not expressly approved by the manufacturer may void the user's authority to operate the equipment.

EC REP

NAME: VIAJE ELECTRONIC COMPANY LIMITED

ADDRESS: E588, 13 ADELAIDE ROAD, DUBLIN, D02 P950, IRELAND

EMAIL: VIAJEELE@outlook.com

UK REP

NAME: SUJE ELECTRONIC COMPANY LIMITED

ADDRESS: S211 92a Bury Old Road, Manchester, England, M45 6TQ

EMAIL: SUJEELECTRONIC@outlook.com

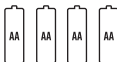
Manufacturer/Hersteller/Fabricant/Produttore/Fabricante:

FUJIAN BALDR TECHNOLOGY CO.,LTD

ADDRESS/ADRESSE/ADRESSE/INDIRIZZO/DIRECCIÓN:

Floor 3, Building 2, No.71 Yangqi Road, Fuwan Industrial Area,
Cangshan District, Fuzhou, China. 350008

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