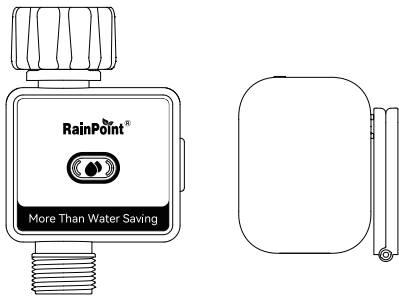


USER MANUAL

1-Zone Wi-Fi Water Timer with Gateway Kit



Model No. HTV157B + HWG023WBRF



Email: service@rainpointonline.com



Hotline

DE: +49 800-182-0576

US: +1 833-381-5659

UK: +44 20-4628-3036

CONTENTS

| | |
|---|-----------|
| 1. INTRODUCTION | 02 |
| 1.1 Package Contents | 02 |
| 1.2 Product Overview | 03 |
| 1.3 Specifications | 04 |
| 1.4 Feature Overview | 05 |
| 2. INSTALLATION AND CONNECTION | 07 |
| 2.1 Installing the App | 07 |
| 2.2 Connecting the Gateway to Wi-Fi | 08 |
| 2.3 Connecting the Timer to the Gateway | 14 |
| 2.4 Installing the Timer on the Faucet | 19 |
| 2.5 Activating the Timer Before Use | 20 |
| 3. APP INTRODUCTION | 21 |
| 4. RESETTING THE DEVICE | 23 |
| 4.1 Resetting the Wi-Fi Gateway | 23 |
| 4.2 Resetting the Wi-Fi Timer | 23 |
| 5. MEANING OF LED INDICATORS | 23 |
| 5.1 Wi-Fi Gateway LED Indicators | 23 |
| 5.2 Wi-Fi Timer LED Indicators | 24 |
| 6. TROUBLESHOOTING | 25 |
| 7. WARRANTY POLICY | 27 |
| 8. CUSTOMER SUPPORT | 28 |

1. INTRODUCTION

1.1 Package Contents



1



3



5



2



4



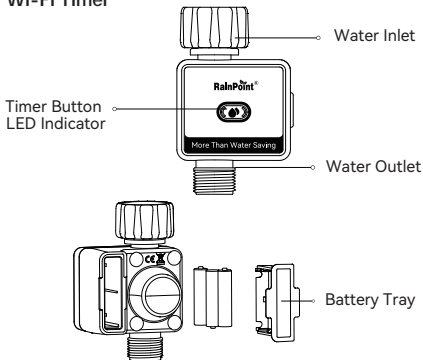
(EU market only)

6

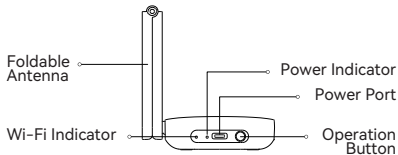
1. 1 × HTV157B 1-Zone Wi-Fi Timer
2. 1 × HWG023WBRF Wi-Fi Gateway
3. 1 × **Quick Start Guide**
4. 1 × User Manual
5. 1 × USB Type-C cable
6. 1 × Tap Connector
(3/4" BSP thread, EU market only)

1.2 Product Overview

Wi-Fi Timer



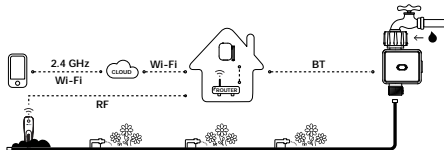
Wi-Fi Gateway



1.3 Specifications

| Wi-Fi Timer | |
|--------------------------------------|--|
| PARAMETERS | VALUES |
| Range Between Gateway and Timer | Up to 262 ft (80 m) in open areas |
| Operating Water Pressure | 7–116 psi (0.5–8 bar) |
| Watering Duration Range | 1 min – 12 hrs |
| Operating Water Temperature | 37.4–122 °F (3–50 °C) |
| Power Supply | 3 × AAA batteries (not included) |
| Waterproof Rating | IP55 |
| Water Inlet | 3/4" NH faucet thread (US); 3/4" or 1" BSP faucet thread (EU) |
| 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 setup and monitoring of watering schedules via the app.
- 2) Scheduled Watering:**
Up to 6 independent watering schedules can be set and are 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 timer is paired with a Wi-Fi soil sensor (sold separately), watering can start and stop 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 manual and automatic rain delay to help prevent overwatering on rainy days.

- 6) **Three Watering Modes:**
Offers three watering modes to suit different needs: Normal Irrigation, Cycle & Soak, and Misting Irrigation.
- 7) **Family Co-Management:**
The Home Management feature in the app allows additional family members to be added and granted with permission to manage garden irrigation together.
- 8) **Status Alerts:**
Low-battery, water-shortage, and valve-fault (e.g., leakage) alerts are sent via the app.
- 9) **Gateway Capacity:**
A single Wi-Fi gateway supports pairing with up to 39 sub-devices in the RainPoint Home product family.
- 10) **Soil Sensor Pairing per Valve:**
Each valve on the Wi-Fi 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) In Google Play Store 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.



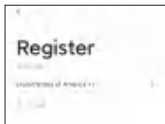
RainPoint Home



iOS



Android



2.2 Connecting the Gateway to Wi-Fi

2.2.1 Preparation for Connection

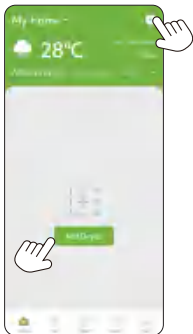
Before connecting the gateway in the RainPoint Home app, make sure that:

- The smartphone is connected to a 2.4 GHz private Wi-Fi network (public Wi-Fi networks 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).

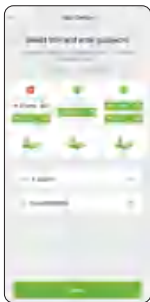
2.2.2 Connection Steps

Follow the steps below to connect the gateway using 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 begin adding a new device.



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



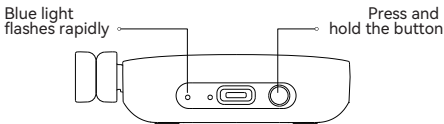
- c. Enter the Wi-Fi password and tap "Next".

Note: A 2.4 GHz Wi-Fi network must be used for device pairing.

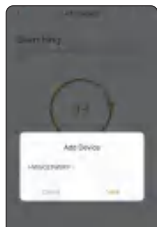
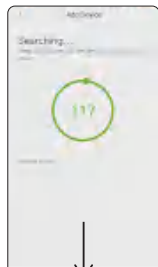
- d. Follow the on-screen instructions to complete the connection.

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

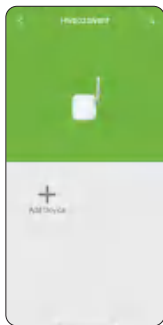
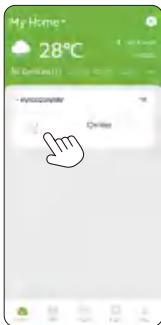
- ① Power the gateway with the USB-C cable.
- ② Press and hold the button until the Wi-Fi indicator on the gateway flashes blue rapidly to enter pairing mode.



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

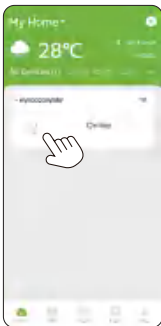


- f. Once the gateway has been successfully connected, the gateway icon appears on the app home screen. Tap the gateway icon to open the gateway page and access additional settings.



2.3 Connecting the Timer to the Gateway

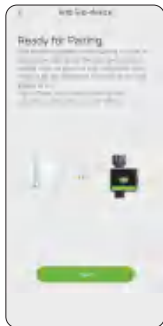
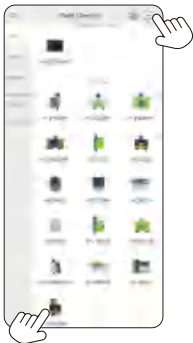
- After the gateway is connected, tap its icon on the app home screen to open the gateway page. Then tap **"Add Device"**, and select **"Add New Devices"** to add the timer as a sub-device of the gateway.



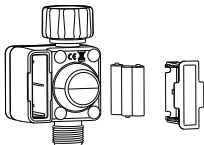
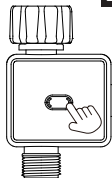
- b. In the device list, select "HTV157B" to add the device. Alternatively, tap the icon in the upper-right corner to add it by scanning the QR code or entering its serial number. The app then displays the device pairing preparation page.



0220157400



- c. Install the batteries in the timer, then press and hold the button until the red indicator flashes rapidly, to enter pairing mode pairing mode.



Battery Installation

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

- 1) Open the battery tray and insert 3 new AAA (1.5 V) alkaline batteries (not included).
- 2) Close the battery tray cover and press it down firmly to ensure that it is fully sealed.

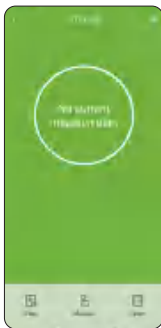
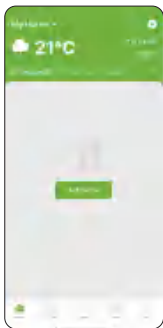
BATTERY SAFETY:

- After installing the batteries, ensure that 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 in accordance with 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, always use 3 new AAA (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.

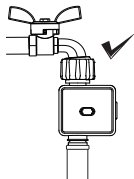


- e. Once the timer has been successfully connected, its icon appears on the app home screen. Tap the timer icon to open the timer page and access additional settings.

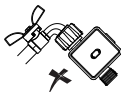
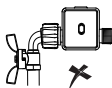


Note: Keep the gateway and timer close to each other during pairing. To re-pair the timer or restore factory settings, press and hold the operation button until the red indicator flashes rapidly to enter pairing mode.

2.4 Installing the Timer on the Faucet



- 1) Turn off the garden faucet.
- 2) Attach the timer inlet to the outdoor faucet or 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 timer.
- Install the filter in the correct orientation and keep it clean.



Note:

- Install the timer within 262 ft (80 m) of the Wi-Fi gateway, with a clear line of sight. 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 it in an underground valve box or other enclosed locations.

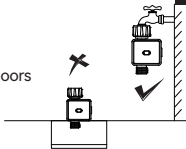


Less than 262 ft (80 m)
(No bushes,
walls blocking)



Warning:

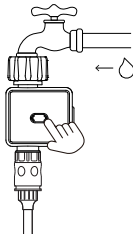
- For cold water use **only**. Do not connect to hot water.
- Remove the timer and store it indoors during freezing weather.



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 internal valve as follows:

- 1) Pull out the battery tray and install 3 new AAA (1.5 V) alkaline batteries as indicated. Then reinsert the tray fully into the timer housing until it is completely seated and secure.
- 2) Ensure that the faucet is closed.
- 3) Press the timer button once. A clicking sound indicates that the internal valve opens for manual watering.
- 4) After a few seconds, press the timer button again. A clicking sound indicates that the valve is closed.
- 5) To test: Slightly open the faucet and press the timer button once more to confirm that water from the outlet starts and stops as expected.

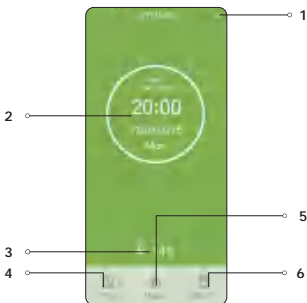


If the test is successful, the timer valve has been activated correctly and the timer is ready for use. If the test fails, repeat steps 2–4 several times. If the issue persists, contact customer support.

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

3. APP INTRODUCTION

Timer Home Screen



1. Settings

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

2. Next Plan Time

After the watering schedules are set, the device page displays the next scheduled watering time.

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 schedule, select one of the following watering modes according to irrigation needs:

- Normal Irrigation
- Cycle & Soak
- Misting Irrigation

Rain Delay can be set to 24, 48, or 72 hours to avoid watering on rainy days.

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

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

5. Manual

Tap "Manual" to start 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 irrigation needs.

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

6. Event

Tap "Event" to view the online/offline status and the irrigation records.

4. RESETTING THE DEVICE

4.1 Resetting the Wi-Fi Gateway

- 1) Power the gateway with 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 is in pairing mode.

4.2 Resetting the Wi-Fi Timer

- 1) Remove all batteries from the battery tray.
- 2) Wait for at least 10 seconds, then insert 3 new AAA (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 twice 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 flashes 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 status
 - Red LED: Flashes 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 flashes 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.

6. TROUBLESHOOTING

Wi-Fi Gateway Troubleshooting

| ISSUE | SOLUTION |
|--|---|
| The gateway cannot connect to the network. | <ul style="list-style-type: none"> • Confirm that the Wi-Fi password has been entered correctly. • During setup, keep the gateway and the smartphone close to the Wi-Fi router. |
| The gateway is disconnected or offline. | <ul style="list-style-type: none"> • Confirm that the Wi-Fi router is functioning properly. • If there has been a power outage, ensure the router has restarted correctly, then reconnect the gateway by following the connection steps in this manual. |

| ISSUE | SOLUTION |
|-------------------------------------|--|
| | <ul style="list-style-type: none"> • 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 |
|-----------------------|---|---|
| Valve does not open. | <ul style="list-style-type: none"> • Low battery. • Debris in the inlet or filter. • Unstable network or response delay for the APP. | <ul style="list-style-type: none"> • Replace the batteries with new ones. • Clean the inlet/filter regularly to remove debris and prevent interference. • Wait a few moment and then try opening the valve again. |
| Timer cannot connect. | <ul style="list-style-type: none"> • Wi-Fi network is unstable. • The timer is too far from the gateway. • The timer is not in pairing mode. | <ul style="list-style-type: none"> • 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 |

| ISSUE | POSSIBLE CAUSE | SOLUTION |
|---|--|--|
| | | remove the device from the home screen in the app and reconnect it). |
| Watering is not executing as scheduled. | <ul style="list-style-type: none"> • 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. | <ul style="list-style-type: none"> • 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 if 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, please provide the following information:

- 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 screens or menu names. For the most accurate information, refer to the current screens in the app or contact customer support for assistance.

FCC ID: 2AWDBHTV157B + 2AWDBHWG023

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 designed 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

EMAIL: service@rainpointonline.com



Points de collecte sur www.quefairedelesdechets.fr
Privilégiez la réparation ou le don de votre appareil !



Made in China



Not included.





Scan the QR code to
get fast support

Need Help?

Please contact us

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

