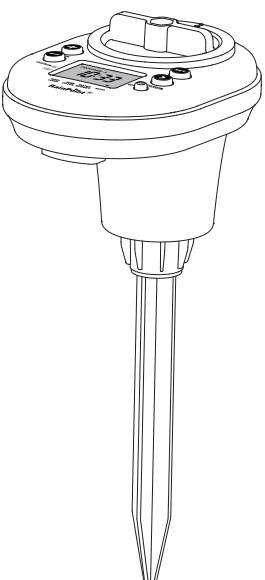
RainPoint®
More Than Water Saving

USER MANUAL

4-ZONE SPRINKLER CONTROLLER

Model No. ITC407



Save the user manual for future reference. If you have any questions, please contact us to get support.

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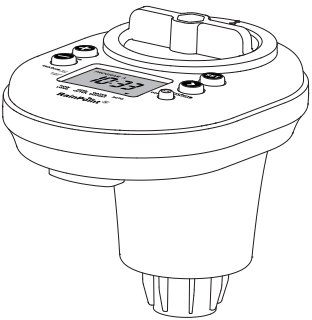
1. Contents in the box



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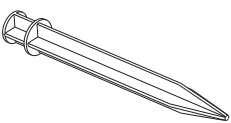

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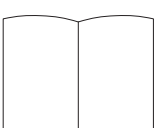

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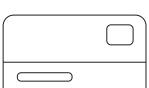

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1. 1 X ITC407 4-Zone Sprinkler Controller
2. 1 X User Manual
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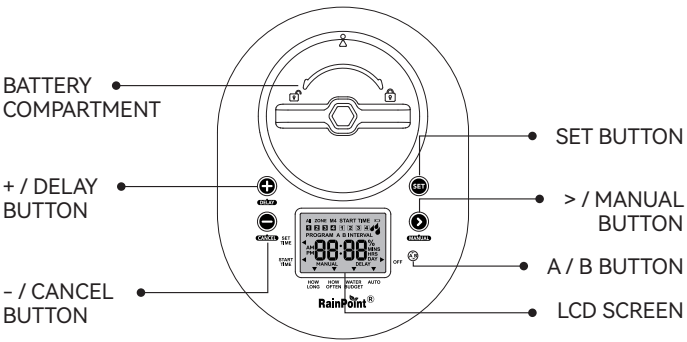
2. Introduction

2.1 Product Overview



2.2 Button Introduction

BUTTON	MODE	OPERATION	FUNCTION
"-/CANCEL" Button	Any setting mode	Short press	Decrease value by 1 or toggle 12/24-hour format
		Holding	Rapidly Decrease value
"SET" Button	Any setting mode	Short press	Save the current mode setting and switch to the next mode: SET time→Start time→How long →How often→Water budget→ AUTO→OFF→SET time
"A/B" Button	AUTO mode	Short press	A→B→AB→A cyclic switching
	Other models	Short press	A→B, B→A cyclic switching
	AUTO mode	Holding	Enter the main valve setting interface, and only the zone 4 can be set as the main valve

BUTTON	MODE	OPERATION	FUNCTION
"+/DELAY" Button	Any setting mode	Short press	Increases value by 1 or switch to hour mode
		Holding	Rapidly Increase value
	AUTO mode	Short press	Adjust the DELAY value
		Holding	Enter the RAIN DELAY Settings mode
	RAIN DELAY Settings	Holding	Start executing RAIN DELAY (when the device enters the Delay state, long press the Delay button again after the time setting is completed to start executing Delay.)
	RAIN DELAY Execution	Holding	Exit the delay and restore the AUTO mode standby state
">/MANUAL" Button	SET time, Settings mode	Short press	12/24 hour system, hours and minutes cycle switch (when the 12-hour system is set with +-AM/PM will automatically switch)
	Start time Set the mode	Short press	Four Start time are switched from 1 to 4 in a loop, and the selected number is always displayed (AM/PM will be automatically switched when +-is set)
	How long, Settings mode	Short press	The four zones are switched from 1 to 4 in a loop, and the selected ones are displayed constantly on
	AUTO mode	Holding	Enter Manual Settings mode
	Manual Set the mode	Short press	Select zone for irrigation: ALL→1→2→3→4→ALL, in a cyclic manner
	Manual Execution	Holding	Close the entire Manual plan

2.3 Specification

ITEM	SPECIFICATION
Waterproof Level	IP68
Working Temperature Range	3℃~50℃ (37℉~122℉)
Storage temperature	-10℃~50℃ (4℉~122℉)
Powered by	4*AA Alkaline Battery (Not Included)

2.4 Product Features

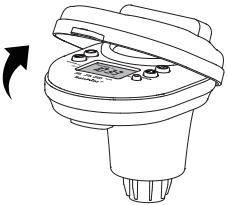
- Can be connected to a normally closed rain sensor
- Clear indicators and buttons for easy operation of the product
- Each valve can be set to a variety of different watering plans
- Low battery warning
- Can set the delay for rainy days
- Can be fixed by inserting it into the ground

3. Installation

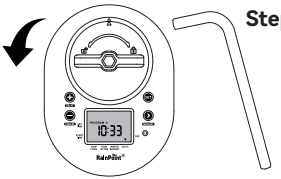
3.1 Battery Installation

Install Batteries to the Controller:

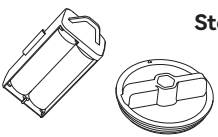
a. Open the rubber cover on the surface of the controller.
b. Use a hex wrench (not included), or rotate counterclockwisely by hand to open the battery compartment cover.
c. Take out the battery compartment and insert 4 new AA (1.5V) alkaline batteries (not included), and put the battery compartment back.
d. Close the battery compartment cover clockwisely to ensure it is completely sealed.



Step ①



Step ②



Step ③

NOTE: Make sure the arrow is aligned with the spot (see picture left) when close the battery compartment cover, indicating it is completely sealed.

ATTENTION:

- After changing batteries, the plans you set before will not be stored so you need to set the plans again.
- After installing the battery, please firmly install the battery cover to avoid water leakage.
- When not using the controller for a long time, please remove the battery and dispose of it properly.
- Replace the battery when a low battery indicator appears on the device.
- Do not throw the battery into the fire as it may explode or leak.
- To ensure a longer lifespan, please use 4 new AA alkaline batteries (not included).
- Do not mix new and old alkaline batteries, standard batteries (carbon zinc batteries), or rechargeable batteries.

3.2 Valve installation

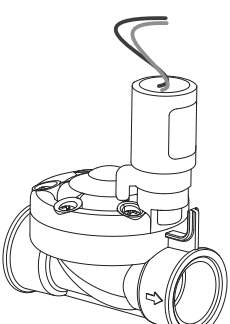
a. You need to confirm whether the solenoid valve you purchased matches the solenoid valve supported by **ITC407** through the following table:

TYPE	PARAMETER	IS IT SUPPORTED TO USE
AC solenoid valve	—	×
DC pulse solenoid valve	Pulse electromagnetic type	√
AC motor valve	—	×
DC pulse motor valve	Pulse motor type	√

Attention: If you are unsure about the model of the solenoid valve you have purchased, please consult the original manufacturer.

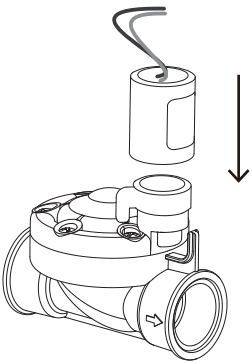
b. Please connect the solenoid valve head to the valve.

- If you have an AC solenoid valve or AC motor valve, you need to remove the AC solenoid head or AC motor head from the valve body and replace it with a DC solenoid head or DC motor head; If you have a DC electromagnetic head or DC motor head, please skip this step:

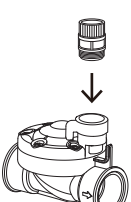


- Determine if the size of the DC electromagnetic head you purchased matches the valve body. If it does, connect it directly. If it does not, use an adapter (to be purchased separately) for connection.

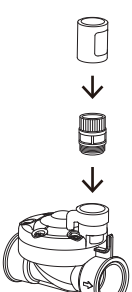
Matching of electromagnetic head and valve size:



Mismatch between electromagnetic head and valve size (choose medium or large adapter according to actual situation):



Step ①



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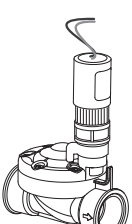
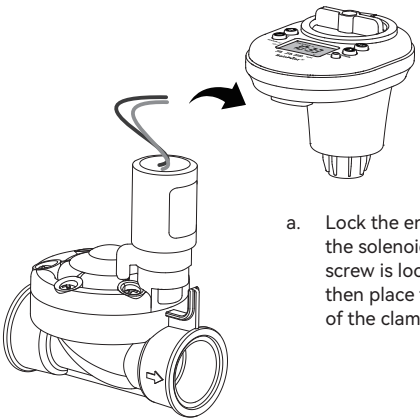


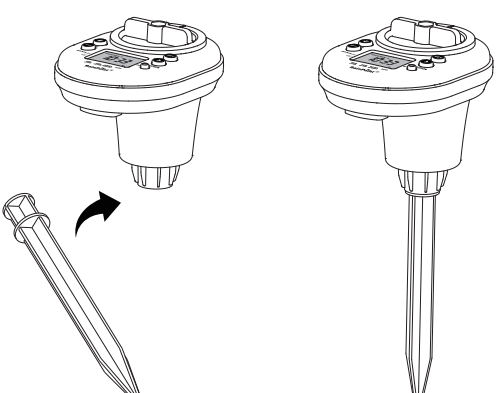
Step ③

3.3 Controller installation



a. Lock the end of the clamp with a screw at the solenoid valve, ensuring that the screw is locked to prevent loosening, and then place the controller on the other end of the clamp.

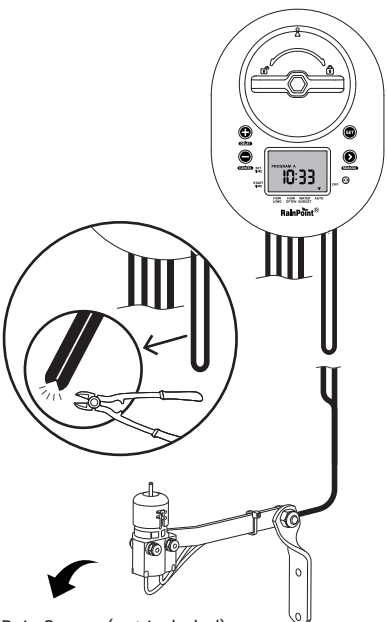
b. Ground-Stake Installation
Insert the stake vertically into the socket on the bottom of the controller, then push the stake into the desired ground location.



3.4 Wire Connection

a. Wired Rain Sensor Connection.

- Cut open the yellow wire with scissors.
- Peel off an appropriate length of insulation material from the wire.
- Connect the rain sensor wire to the yellow wire of the device.

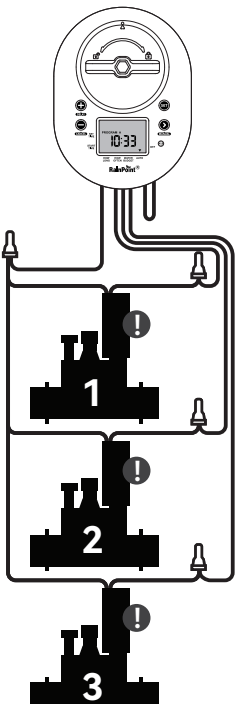


Rain Sensor (not included)

Attention: Do not peel off the yellow sensor wire unless using a wired rain sensor.

b. Valve wire connection.

- Peel off an appropriate length of insulation material from each wire.
- Connect one end of the red wire to the valve body according to the number of the red wire terminal on the controller.
- Connect the black wire to the other end of the valve body.



Attention: The red wire number 4 is the wire connecting the main valve.

4. Mode Descriptions

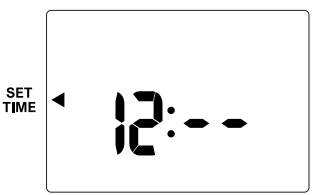
MODE	DESCRIPTIONS
SET Time	• **Set the function:** 12/24 hour system, hour, minute. • The 12/24 hour mode is switched by the "+" and "-" buttons.
Start Time	• **Settings:** Four Start time, A/B mode, a total of 8 start times. • Four Start time represents four groups of plans, and the start time of each group of plans takes effect uniformly for the four zones. • START time can set the minute. • AM/PM automatically jumps after being set by hour/min. • The minimum setting unit of minutes is 15 minutes (press the +/- button for a short time to increase or decrease the value by 15 minutes).
How Long	• **Setting function:** Zone 4 road, A/B mode, irrigation time setting. • **Set the duration range:** 0-240 min. • Different zones can be set with different irrigation duration.
How Often	**Set the function:** A/B mode, interval hour is 1~12 hours, and then the number of days is 1~31 days.
AUTO Mode	• **Set functions:** RAIN DELAY, Manual. • Plans can be run in AUTO mode. • In this mode, A/B/AB is set. The "AB" setting indicates that the plans in modes A and B take effect simultaneously.
OFF Mode	• **Display:** OFF. • Cannot be set. • Cancel the ongoing plan, cancel all states, and close all valves.
Water Budget	• **Set function:** Percentage. • **Setting range:** 10%~200%. • **Enter the default value:** 100%.
Rain delay	• **Set the function:** Delay time in rainy days. • **Setting range:** 0HRS-24HRS-48HRS-72HRS, four options are available. • **Unit:** HRS.
Manual delay	• **Settings:** Zone 4 single or ALL irrigation, and manual irrigation duration setting. • **When ALL is selected:** The irrigation duration of all zones is the same. • **Zone 4 When the route is selected:** The irrigation duration corresponding to zone is set separately in Manual mode. • **Set the duration range:** 0-240min.
Set main valve	• **Setting function:** Zone 4 Set the main valve. • After setting the main valve, M4 is always on in AUTO mode.

5. Operation Instructions

5.1 Set Time

a. Press the **"SET"** button for a short time until the black triangle appears in SET TIME, and the device enters the time-setting mode.

b. **12/24 hour setting:** the default is 24 hours. Switch between 24 and 12 hours by pressing **"+"** and **"-"** button. The 24 or 12 numbers will flash, but H will not flash. After the hour setting is confirmed, press the **">"** button for a short time to switch to the hour and minute setting.



Hour flashes

Minute flashes

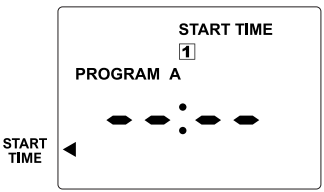
Notes:

- When the minute setting is completed, press the **">"** button again to switch back to the 12/24 hour setting. When switching from the hour setting to the hour minute setting, the time of the last setting will be displayed by default.
- Short press the **"+"** and **"-"** buttons to add or subtract 1 value, long press the **"+"** and **"-"** buttons to quickly increase or decrease the value.
- When the hour is —— by default, the value becomes 12 when the first **"+"** and **"-"** button are pressed in 24-hour mode, and PM 12 when the value becomes 12 in 12-hour mode, the minute is —— by default, and the value becomes 30 when the first **"+"** and **"-"** buttons are pressed.

5.2 Set Start Time

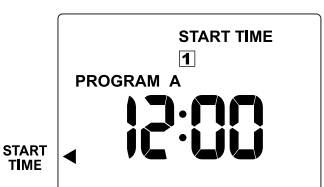
a. Short press the **"SET"** button. When a black triangle appears on **START TIME**, the device enters **START TIME** settings.

b. The default display is START TIME 1, Program A, **-- : --**.



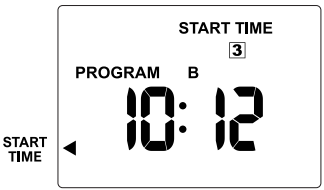
Default mode

c. Set the minute value by short pressing the **"+"** and **"-"** buttons. The first time you short press the **"+"** and **"-"** buttons, the value becomes 12:00, at which point both the hour and minute flash together.



Hour and minute flash

d. Each subsequent short press of the **"+"** and **"-"** buttons increases or decreases the minute value by 15. Short press the **">"** button to switch between **START TIME** 1, 2, 3, 4.



Program B, START TIME 3 state

e. Short press the **"A/B"** buttons to switch between **Program A** and **Program B**. After completing the settings, short press the **"SET"** button to switch to **HOW LONG** settings.

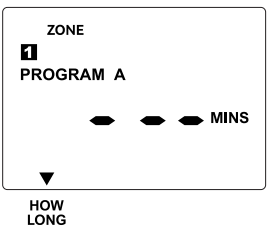
Notes:

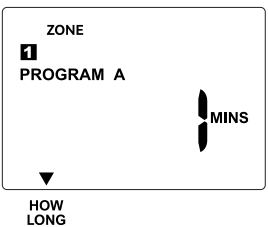
- When the minute part is displayed as 00, press the **"-"** button again to reduce the hour by 1 and the minute becomes 45. When the minute part is displayed as 45, press the **"+"** button again to add the hour by 1 and the minute becomes 00.
- All **START TIME** enter for the first time, and the time is displayed as **-- : --** by default. When it is 24 hours, at 23:45, short press the **"+"** button, the time display becomes **-- : --**, and short press the **"+"** button again, the time becomes **00 : 00**.

5.3 Set Watering Duration

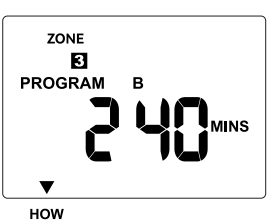
a. Short press the **"SET"** button. When a black triangle appears on **HOW LONG**, the device enters **HOW LONG** settings.

b. The default display is **ZONE 1**, Program A, and duration: **- --** , with a setting range of (0-240min).





c. Set the duration value by short pressing the **"+"** and **"-"** button. The first short press of **"+"** sets the value to 1, and the first short press of **"-"** sets the value to **240**. Short press the **">"** button to switch **ZONE 1 → 2 → 3 → 4 → 1**. Short press the "A/B" button to switch between Program A or Program B. When the **HOW LONG** value is **- --** , it does not flash. when there is a value for **HOW LONG**, it flashes. After completing the settings, short press the **"SET"** button to switch to **HOW OFTEN** settings.



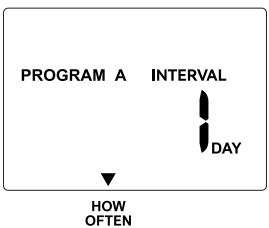
Notes:

- When the value is displayed as 1, press the **"-"** button again, and the value becomes **- --**. When the value is displayed as **240**, press the **"+"** button again, and the value becomes **- --**.
- When the **HOW LONG** of all Zones is set for the first time, the value is displayed as **- --**.

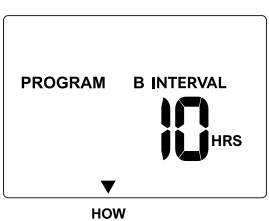
5.4 Set Watering Frequency

a. Short press the **"SET"** button. When a black triangle appears on **HOW OFTEN**, the device enters **HOW OFTEN** settings.

b. The default is **Program A**, with a frequency of 1 Day. The setting range is **1 H-12 H-1 DAY-31 DAYS**.



c. You can switch between **Program A** and **Program B** using the **"A/B"** buttons. Set the frequency value by short pressing the **"+"** and **"-"** buttons. After completing the settings, short press the **"SET"** button to switch to **"WATER BUDGET"** settings.



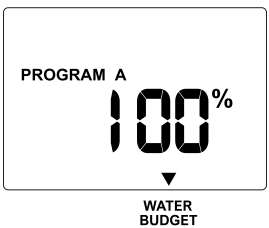
Notes:

- When the value shows as 1 DAY, press the **"-"** button again, the value changes to 12 HRS. When the value shows as 1 HRS, press the **"-"** button again, the value changes to 31 DAY. When the value shows as 12 HRS, press the **"+"** button again, the value changes to 1 DAY. When the value shows as 31 DAY, press the **"+"** button again, the value changes to 1 HRS.
- **Program A** and **Program B** default frequencies are 1 DAY.

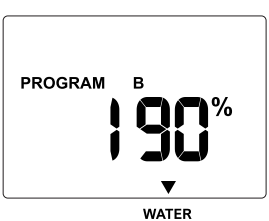
5.5 Set Water Budget

a. Short press the **"SET"** button. When a black triangle appears on **WATER BUDGET**, the device enters **WATER BUDGET** settings.

b. The default value is **Program A**, which is set to 100%, with a range of 10%-200%.



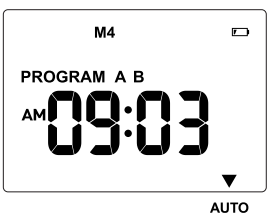
c. Use the **"+"** and **"-"** buttons to increase or decrease the value, with each step being 10%. Switch between **Program A** and **Program B** using the **"A/B"** button. After completing the settings, short press the **"SET"** button to switch to the **"AUTO"** mode.



5.6 Auto Mode

- Short press the **"SET"** button. When the black triangle appears on **AUTO**, the device enters **AUTO** mode.

- Press the **"A/B"** switch button to switch between Program A, Program B or Program A and B plans. Press the **"A/B"** switch button for a long time to display the main valve mode, where **ZONE 4** is the main valve.



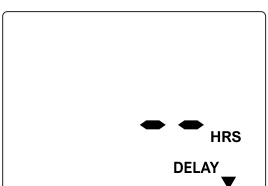
5.7 Off Mode

- Short press the **"SET"** button. When the black triangle appears on **OFF**, the device enters **OFF** mode and the interface is displayed as follows:

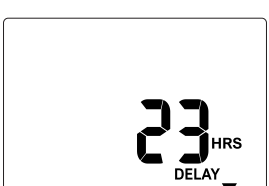
- When the device enters **OFF** mode, all plans are shut down.

5.8 Set Rain Delay

a. When the black triangle appears in **AUTO** mode, you can set the **RAIN DELAY** for the device.
b. Long press the **"+"** button to enter the **RAIN DELAY** time settings, at this point, the time will flash.
c. Adjust the **RAIN DELAY** duration by short pressing the **"+"** and **"-"** buttons, with adjustment ranges of **- -** , 24H,48H, and 72H.
d. After confirming the duration, long press the **"+"** button again to confirm and execute the **RAIN DELAY** plan.
e. When the device is executing the **RAIN DELAY** plan, long press the **"+"** button or short press the **"SET"** button to switch **AUTO** to **OFF** and turn off the **RAIN DELAY**.



Rain Delay Setting



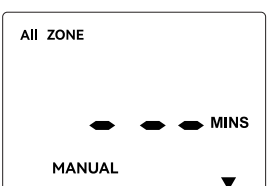
Rain Delay Countdown Execution

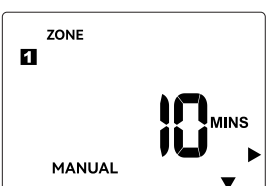
Notes:

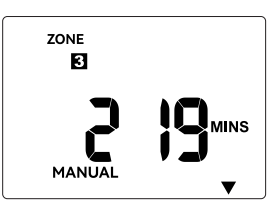
- When the duration is **- -** , press the **"+"** button for a short time, and the duration becomes 24H, press the **"-"** button for a short time, and the duration becomes 72H.
- **RAIN DELAY** After the setting is completed, the **DELAY** page and the standby default interface switch to display each other, switching every 2 seconds.

5.9 Manual Setting

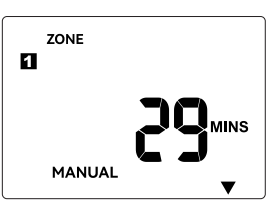
a. When the black triangle appears in **AUTO** mode, you can set the Manual for the device.
b. Long press the **">"** button to enter the Manual settings, where you can select and configure the irrigation zones and duration.
c. By default, the selected zone is **ZONE All**. Short press the **">"** button to switch between options, following the sequence **ZONE All → ZONE 1 → ZONE 2 → ZONE 3 → ZONE 4 → ZONE All**.
d. The default duration is **- --**, with a range of 240 MINS from **- --** to 240 MINS. During the setting process, the values will flash, when the value is **- --**, they will not flash. When the device is executing an Manual schedule, long press the **">"** button or short press the **"SET"** button to switch **AUTO** to **OFF** to turn off the Manual.







During Setup



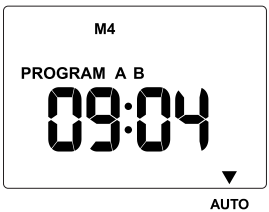
In Progress

Notes:

- When the duration is **- --**, press the **"+"** button for a short time, and the duration becomes **1 MIN**, press the **"-"** button for a short time, and the duration becomes **240 MINS**.
- After the manual setting is completed, the manual page and the standby default interface switch to display each other, switching every 2 seconds.

5.10 Main Valve Setting

In **AUTO** mode, hold down the **"A/B"** button for two seconds. The letter **"M4"** is displayed. Hold down the **"M4"** button for two seconds again.



With main valve state

Without main valve state

6. Configuration Details

6.1 Sensor Connection

The sensor wiring is reserved on the device. When the device leaves the factory, the two wires are connected, and only the normally closed rain sensor can be connected. The connection will take effect automatically without setting.

6.2 Plan Execution Rules

- After the plan is set, ZONE with the same start time in the same plan is executed in order, and the default order is 1~4.
- After the plan is set, different plans are scheduled to start at the same start time and are executed in order. By default, they are executed in the order of time sequence 1~4.
- After the plan is set, if Manual opens irrigation, after the end of Manual state, the original plan of the equipment will not be affected and wait for the time to execute.
- After the plan is set, the device is in Manual state, but the time reaches the scheduled start time, and the plan is canceled directly.

- When irrigating, set the irrigation schedule for the day without affecting the next cycle's irrigation plan. Upon reaching the start time of the next cycle's irrigation plan, automatically stop the previous plan and execute the new irrigation plan. The irrigation frequency for the next cycle will be based on the equipment settings. For example, if the irrigation schedule is set for 9 AM on Monday and Thursday, and the total duration of the irrigation plan on Monday exceeds 72 hours, the excess time will stop at 9 AM on Thursday, and the new irrigation plan for Thursday will be executed.

6.3 Other Operation Guide

- In the set mode, you can quickly adjust the value by long pressing the **"+"** button or **"-"** button to increase or decrease the value quickly (long pressing = short pressing *5 times/second).
- In the set mode, the current state waits for 5 seconds, automatically saves the current setting, enters the **AUTO** mode and displays the corresponding state.
- In **AUTO** mode, short press the **"A/B"** button to switch, and three displays can be displayed: A, B and AB. Only in **AUTO** mode can the display of **"A/B"** be set simultaneously, which represents the plan that the device runs A and B at the same time.

7. Troubleshooting

Problems	Possible Factors	Solutions
Can't open the valve.	The wires at the connection are loose.	Tighten the connection between the controller wire and the valve wire.
Plans not executed on time	Activate rain delay function.	• Check if rain delay is set. • Check whether automatic rain delay is set in the intelligent automation function.

8. Warranty Policy

RainPoint provides a 1-year warranty against manufacturing defects in materials and workmanship from the date of purchase.
During the warranty period, we'll replace free of charge the product found to be defective under reasonable use and service as determined solely by RainPoint.
To place a warranty request, please email us with your order ID at **support@rainpointonline.com** and we'll respond within 24 hours.

9. Customer Support

Still have trouble with setup, please search for **"RainPoint"** on Youtube for installation videos!
If the user manual doesn't have what you're looking for or you need other help, please contact us before returning the product to the store and let us know the LOT NO. of your device. **LOT NO.: XXXXXX** (on the back of the timer)

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V1

Need Help ?

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support@rainpointonline.com

SAVE WATER

6. Warranty Policy

RainPoint provides a 1-year limited warranty on this product against manufacturing defects in materials and workmanship. You can get an extra two years of extended warranty by registering your product on our website www.rainpointonline.com.