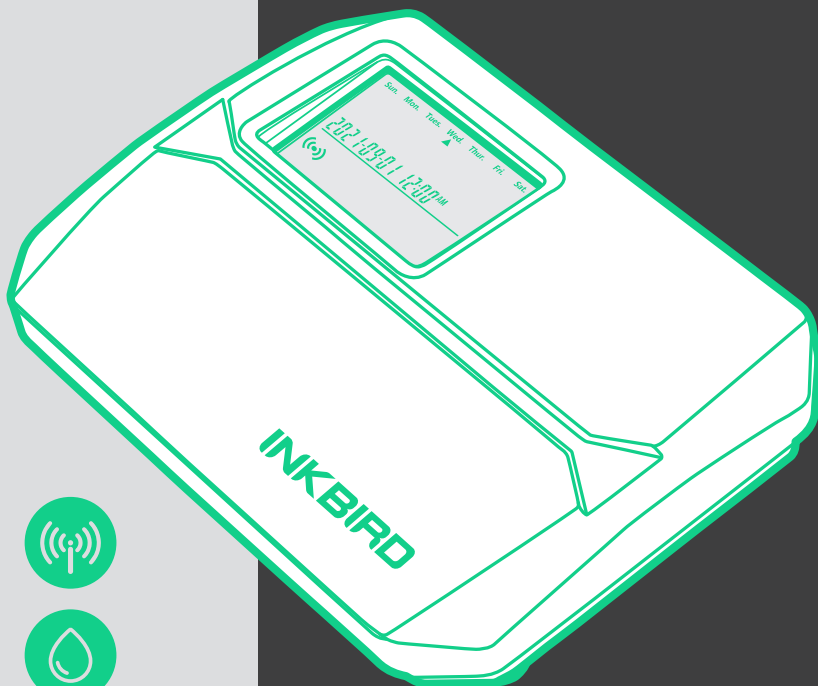


INKBIRD

SMART HOME SMART LIFE

SMART SPRINKLER CONTROLLER

IIC-800-WIFI



LCD

USER MANUAL

CONTENTS

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OVERVIEW

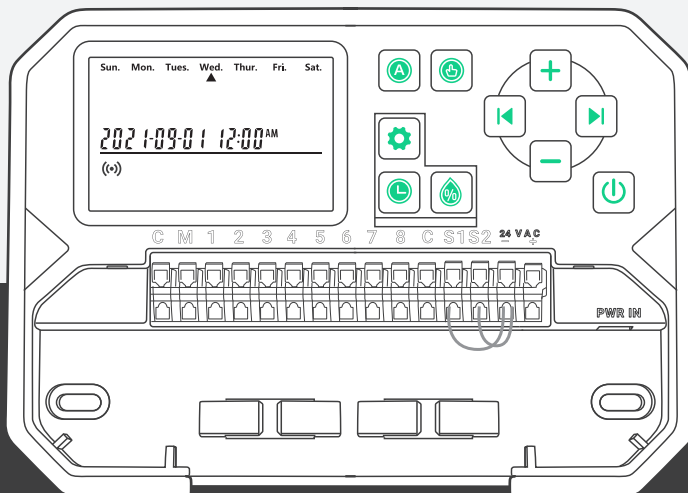
INKBIRD IIC-800-WIFI smart sprinkler controller upgrades your water pipes into an intelligent automatic system, which will save you plenty of time that you would have spent watering in the past. This controller features a Wi-Fi function, enabling you to program and monitor irrigation by your phone. It can control up to 8 zones and automatically start and stop irrigating at the specific time you programmed. There are no more dead plants because you forgot to water them, and no more soggy lawns because you forgot to turn the water off. Features multiple user-friendly functions, this smart irrigation controller is an ideal assistant to help you build a wonderful garden.











FEATURES & SPECIFICATION

- Brand: INKBIRD
- Product Name: Smart Sprinkler Controller
- Model: IIC-800-WIFI
- Power: 24VAC 1A
- LCD screen with backlight display
- Use both indoors and outdoors.
- Control by phone APP in Wi-Fi connection
- Control up to 8 zones of watering.
- Station-based programming enables separate irrigation adjustments for different zones to suit the specific water needs of each zone.
- 4 cyclic options (days of the week/intervals/odd days/even days) to customize irrigation schedules, enhancing flexibility on controlling.
- 6 start times, to run a program several times on the same day.
- Manual irrigation mode, to water an individual zone, several zones or all zones at a time.
- Built-in non-volatile memory, to indefinitely save the settings even after a long time of power off.
- 2 Years of Product Warranty

INKBIRD
SMART HOME SMART LIFE

PRODUCT DIAGRAM



| | | | |
|---|---|---|--|
|  | POWER: Turn on and enter the auto irrigation mode; Turn off and stop all progressing irrigation, and forbidden the auto mode |  | AUTOMATIC: Automatically water based on the programmed watering schedules |
|  | SEASONAL ADJUST: Extend or reduce the irrigation duration (run time) of all stations |  | SCHEDULE: Customize irrigation schedules, to determine how often the timer will water |
|  | MANUAL: Immediately water all zones or one or several zones |  | BACK: Move backward to select a programming option |
|  | DATE&TIME: Set the current date and time |  | NEXT: Move forward to select a programming option or choose the Wi-Fi connection mode |
|  | Increase the numeric value (long press for quick adjustment) |  | Decrease the numeric value (long press for quick adjustment) |

OPERATION INSTRUCTIONS

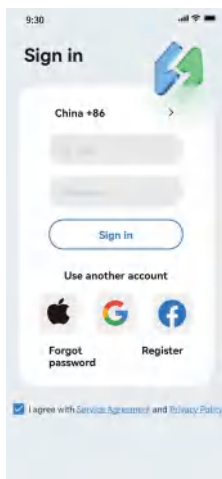
INKBIRD APP Setting



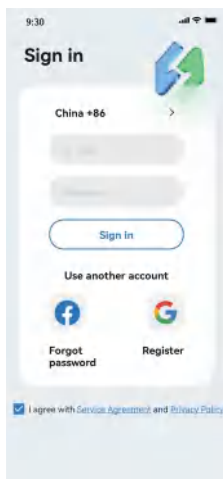
Download the APP

Search the keyword “**INKBIRD**” in App store or Google Play, or scan the following QR code to download and install the APP.

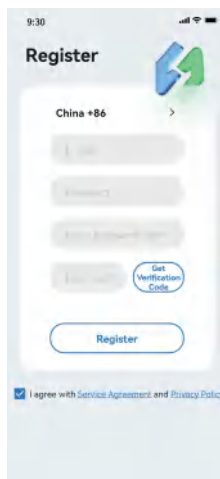
Pair your phone



iOS

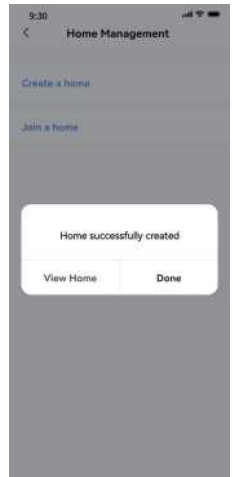
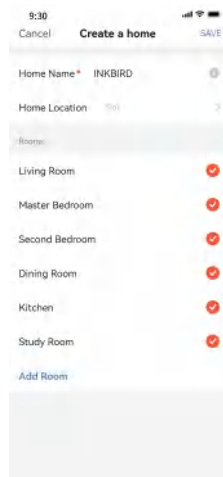
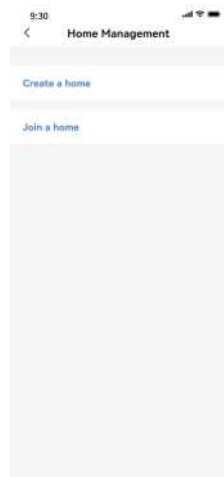
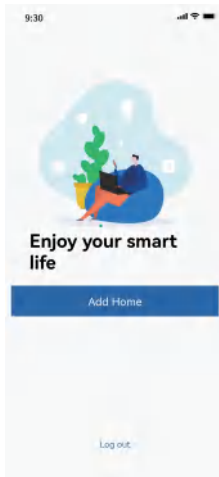


Android



- Open the app and enter the login interface. You can log in by your Apple ID, Google ID, or Facebook ID.

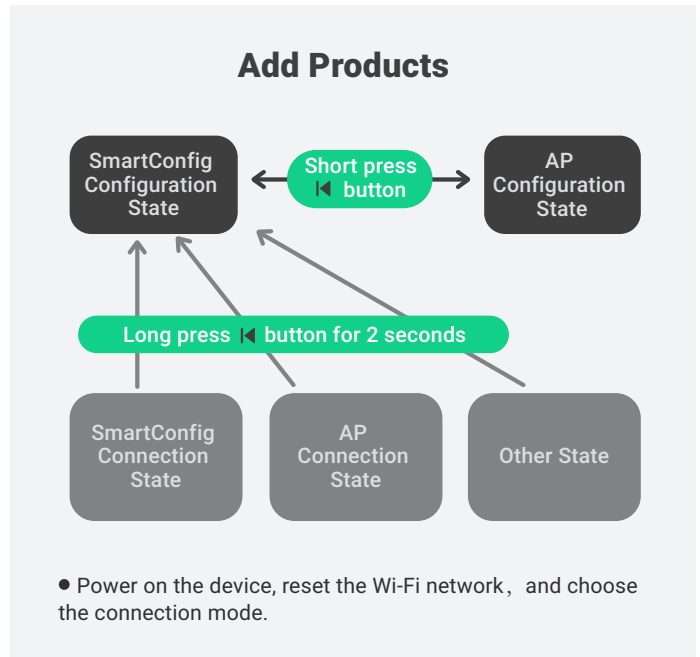
- You can also click register and use your email address as prompted to register.



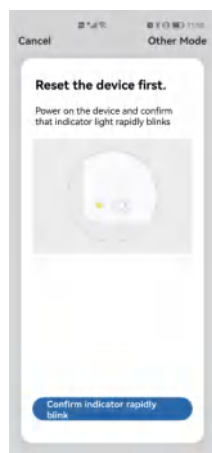
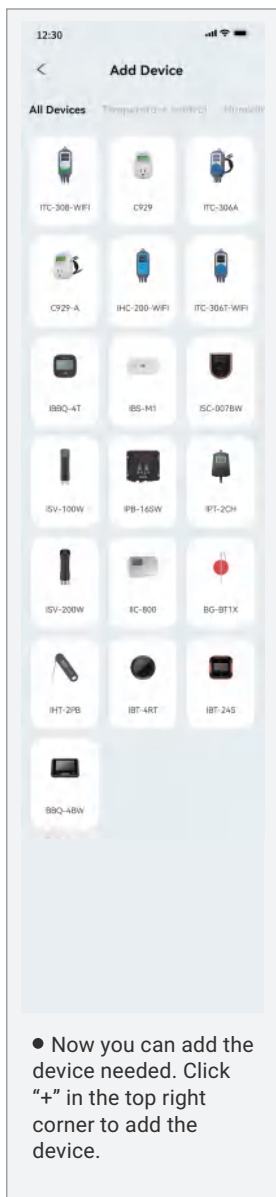
- Click “Add Home” to set up your family. **Note: You should set Home Location if you want to acquire the local weather conditions of the device, IIC-800-WIFI.**



- Congratulations that you have successfully created your home.



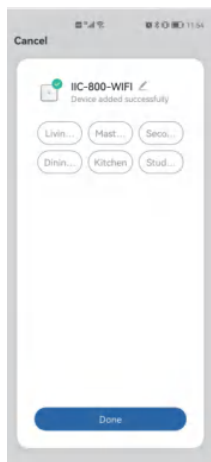
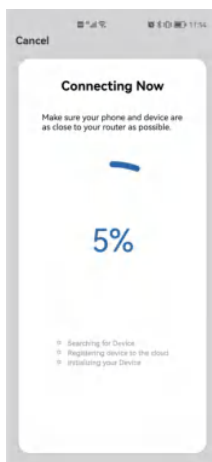
Add devices in SmartConfig Mode



- Click “Confirm indicator rapidly blink”.



- Choose the name of your Wi-Fi device and enter the password before clicking “Confirm” to start the connection.



- Click “Done” when the device is successfully connected to the Wi-Fi network. Then you can set and control the device via InkBird app.

NOTE: This device supports a 2.4GHz Wi-Fi network only.

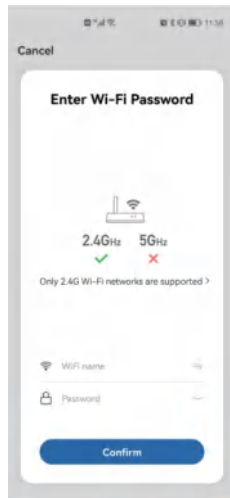
Add devices in AP Mode



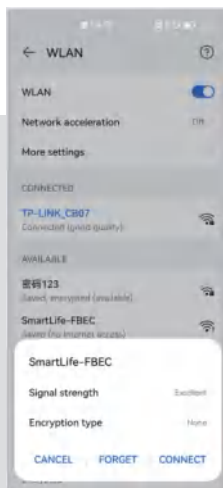
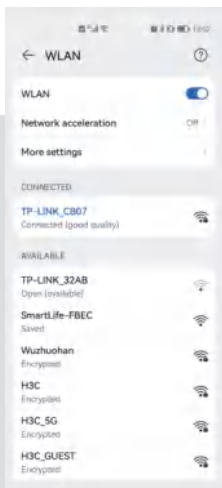
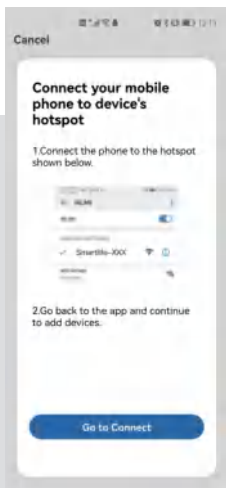
- Click another way to choose the compatible mode.



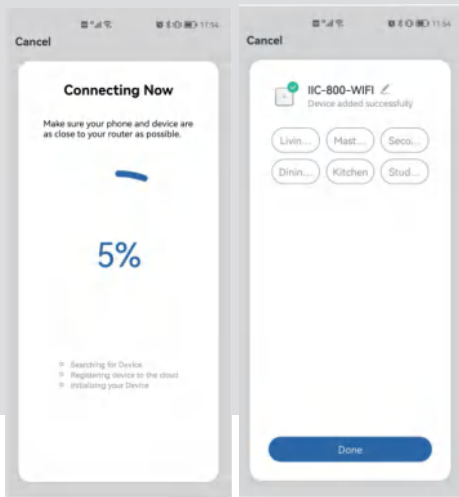
- Click "Confirm indicator slowly blink".



- Choose the name of your Wi-Fi device and enter the password before clicking "Confirm" to start the connection.



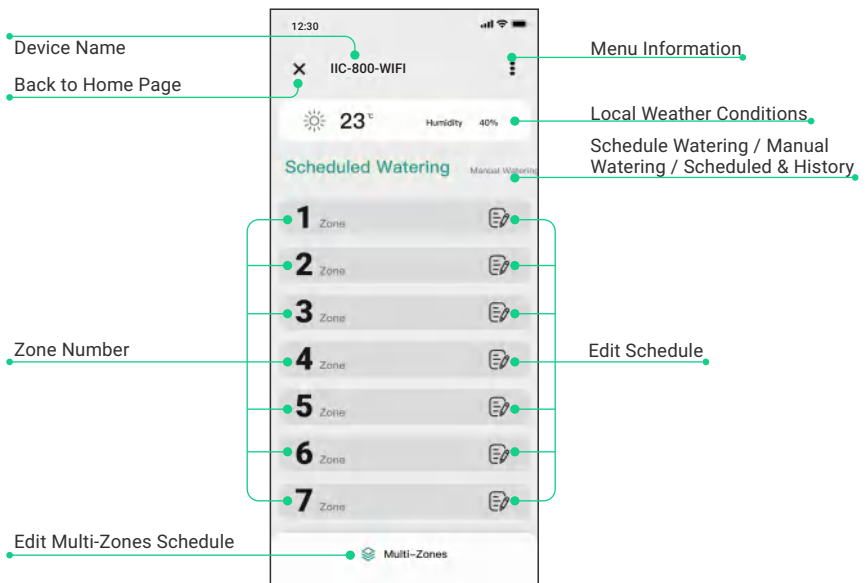
- Click "Go to Connect" to go to your phone's WLAN setting page, select the SmartLife-xxxx" to connect to the router before returning to the connection interface.



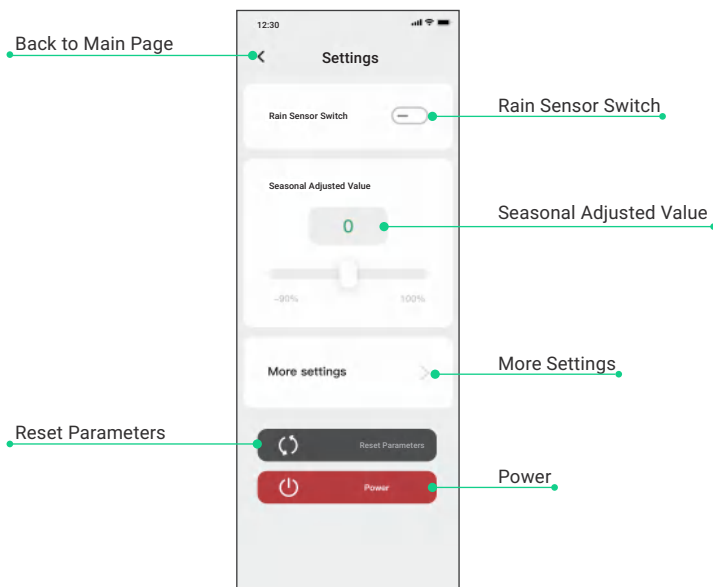
- Go back to the app and click “Done” when the device is successfully connected to the Wi-Fi network. Then you can set and control the device via InkBird app.

Functional Operation on APP Interface

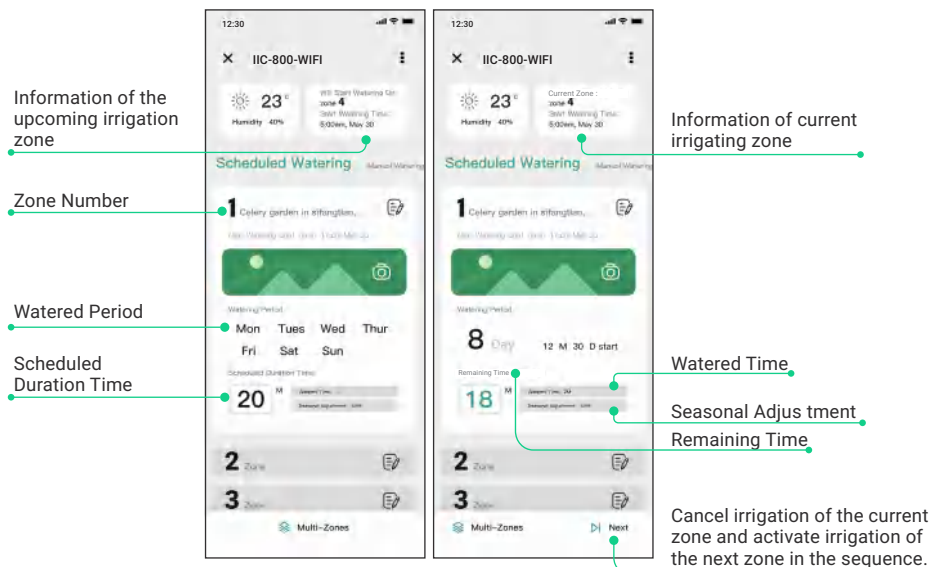
Main Interface



● Menu Information



Interface of Scheduled Irrigation



Interface of scheduled irrigation settings

Shut down the zone

Cancel the setting and restore the last setting parameters

Zone description, such as "Front yard garden"

Watering Period

Scheduled Duration Time

Start Time

Shut down the zone and restore default data

The screenshot shows the 'Zone 1' settings screen. At the top, there is a status bar with the time 12:30 and signal/battery icons. Below this is a header bar with a 'Cancel' button on the left and a 'Done' button on the right. The main content area starts with '1 Zone' followed by a text input field containing 'Front yard garden'. Below this is the 'Watering Period' section with four tabs: 'Odd Days', 'Even Days', 'Customize' (which is selected and highlighted in green), and 'Intervals'. Under the 'Customize' tab, there are seven day buttons: 'Mon.', 'Tues.' (highlighted in green), 'Wed.', 'Thur.', 'Fri.', 'Sat.', and 'Sun.'. Below the days is a toggle switch for 'Obey to the rain sensor?' with 'Yes' (highlighted in green) and 'NO' options. The 'Scheduled Duration Time' is set to '10' minutes, with a small 'M' for minutes. Below this is a note: 'Set the clock on each controller to set the duration time.' The 'Start Time' section shows three time slots: '09:00', '14:00', and '16:00', each with a small 'x' icon above it. At the bottom, there is a '+' button and a 'Reset' button.

12:30

Cancel Done

1 Zone

Front yard garden

Watering Period

Odd Days Even Days Customize Intervals

Mon. Tues. Wed. Thur.

Fri. Sat. Sun.

Obey to the rain sensor?

Yes NO

Scheduled Duration Time

10 M

Set the clock on each controller to set the duration time.

Start Time

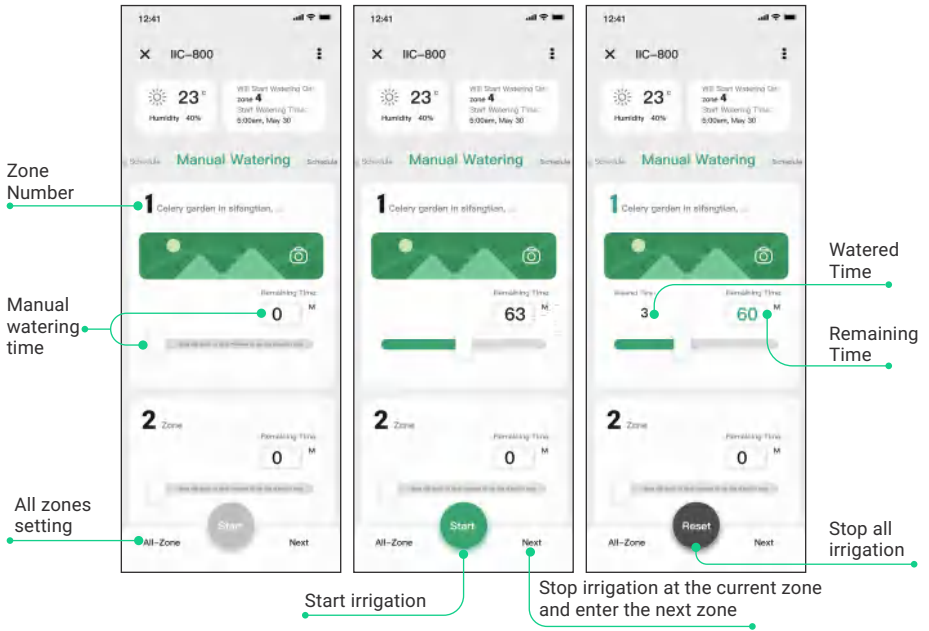
09:00 14:00 16:00

+

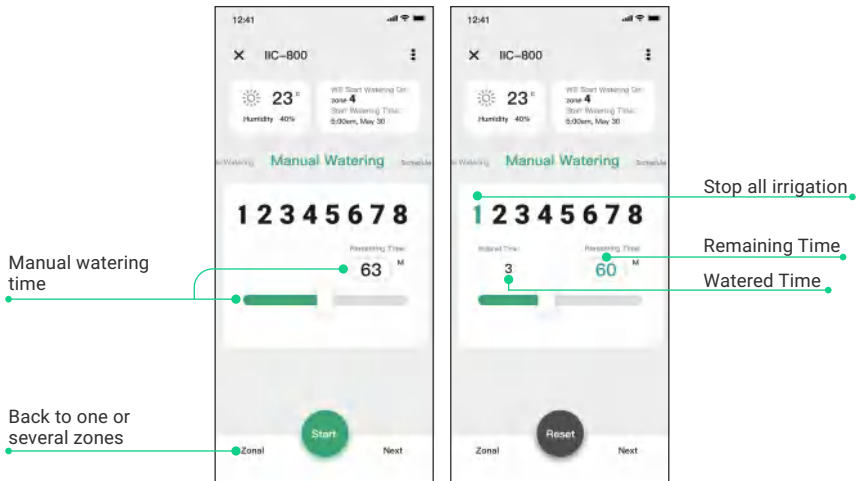
Reset

Interface of Manual Irrigation

- Interface of single or multiple zones

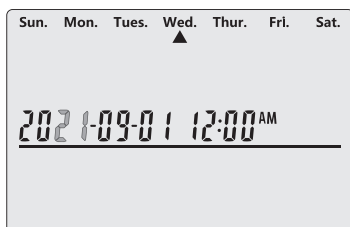








- Interface of all zones




Device Settings

Date & Time: Set the clock time, year, month and day



- Press the  button to enter the setting of the current time; Long press the  button for 2 seconds to select between 12-hour clock and 24-hour clock.
- Press the  or  button to select parameters. You will see the selected characters flashing.
- Press the  or  button to adjust the numeric value.

- Press the  button to quit setting and save parameters. The device will automatically quit and save settings if there is no operation in 60 seconds.

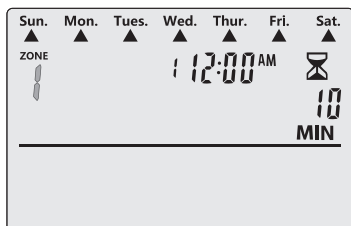
Note: A super capacitor is built into the device to keep the date and time running in blackout without installing additional battery. It can sustain 10~15 days in blackout time under the fully charged state.




- If the device is connected to a Wi-Fi network, the local time will be automatically updated to the device.

Schedule: Customize irrigation schedules

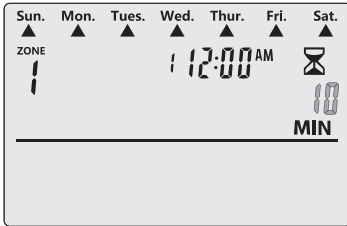
- Press the  button to enter the setting of irrigation schedules.

1/ Select a zone



- Press the  or  button to select a zone, then press the  button to move forward to the next option.

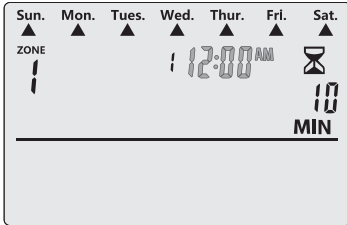
2/ Set watering duration



- Press the **+** or **-** button to adjust the watering duration time, then press the **▶** button to move forward to the next option.

3/ Set watering start times

Note: 1~6 start times can be set for each zone.



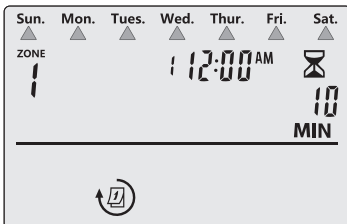
- Press the **+** or **-** button to set the first watering start time of the zone, then press the **▶** button to move forward to the next option. (The watering start time can increase or decrease progressively in a unit of 10 minutes.)
- You can repeat the above steps to set multiple start times.

Note: When the screen displays "--:--" as start time, the start time is not set, you can press the **▶** button to move forward to **Set watering start days**.

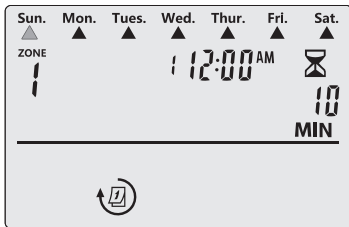
4/ Set watering start days

- There are 4 options when determining how often the timer will water — day of the week, odd days, even days or an interval of few days.

Option 1: Water on every Monday / Tuesday / ...



- Press the **+** or **-** button to select days of the week. You will see the display characters flashing. Press the **▶** button to move forward to the further setting.



- Press the **+** or **-** button to activate or forbidden irrigation on the pointing day which is flashing, then move to the setting of the next day. Or you can press the **▶** button to move to the setting of the next day.

Option 2: Water on odd days



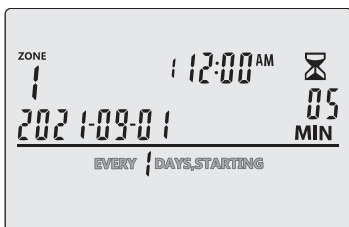
- Press the **+** or **-** button to select the odd numbers of **1,3,5...29**. You will see the display characters flashing. In that case, press the **▶** button to move forward to the next option.

Option 3: Water on even days

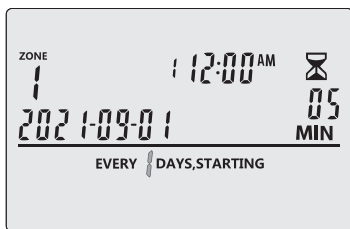


- Press the **+** or **-** button to select the even numbers of **2,4,6...30**. You will see the display characters flashing. In that case, press the **▶** button to move forward to the next option.

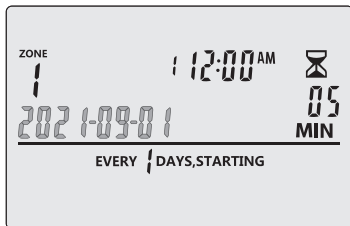
Option 4: Water on an interval of specific days



- Press the **+** or **-** button to select **EVERY DAYS STARTING**. You will see the display characters flashing. In that case, press the **▶** button to move forward to the next setting.






- Press the **+** or **-** button to set a number of days for the time interval. You will see the display character flashing. In that case, press the **▶|** button to move forward to the next setting.



- Press the **+** or **-** button to set the desired start day. You will see the display characters flashing. In that case, press the **▶|** button to move forward to the next step.

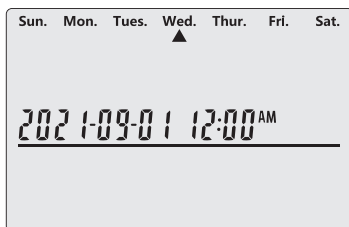
Please repeat steps 1~4 if you want to program the other 7 zones.

5/ Press the button  or  button to quit setting and reverse back to automatic mode. The device will automatically quit and go back to automatic mode, if there is no operation in 10 minutes.

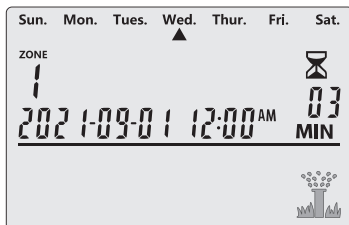
6/ If you want to abandon this parametric setting, you could press the  button to exit and return to Auto mode. All parameters will be restored as the previous settings.

Auto Mode: Automatically water based on the customized schedules

After setting, press the  button to turn on the automatic mode. You can monitor the irrigation work on the screen.



Display in Auto Mode: The screen displays the current time and date.

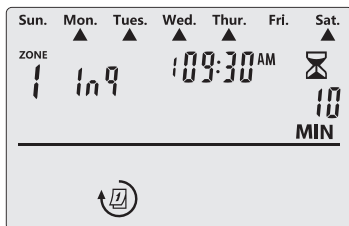


Display in Irrigation Process: The screen displays the current time and date, the serial number of the zone, and the remaining watering time. You will see the icon of the sprayer flashing.

- Press the **+** or **-** button to increase or decrease the remaining watering time.

Note: In the irrigation process, you can press the **▶** button to immediately cancel irrigation of the current zone and activate irrigation of the next zone in the sequence.

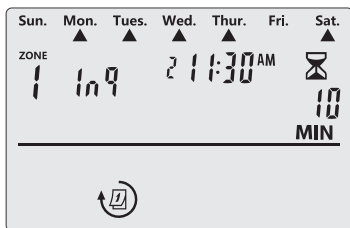
Inquiry Function




- In auto mode and simultaneously in the non-irrigation process, press the **+** or **-** button to enter the inquiry interface. You will see the characters "Inq"(inquiry) displaying and the information about the watering schedules of this zone.




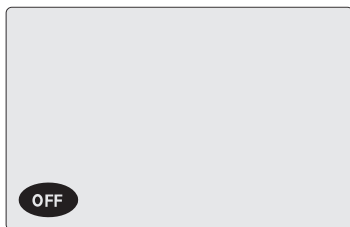
- Press the **+** button to select a zone for inquiry.





- Press the  button to check other start times on this zone.
- Press any other buttons or wait for 5 seconds of no operation to quit the inquiry state.

Turn On/Off: Turn on and enter the auto mode to irrigate based on programmed schedules; turn off and immediately cancel all progressing irrigation, also forbidden auto irrigation.

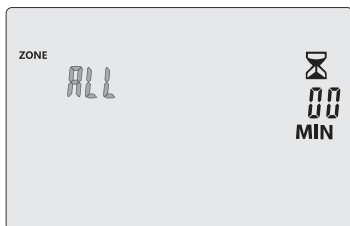
- Under startup state, press the  button to enter shutdown state, and immediately cancel all progressing irrigation. The display screen will display OFF.




- Under shutdown state, press the  button to turn it on. The device will enter the auto mode and monitor irrigation.
- **Factory Reset:** Under any state, press the  button and hold for 5 seconds until you hear a beep sound to restore factory settings.

Manual Mode: Start watering immediately

Irrigate All Zones



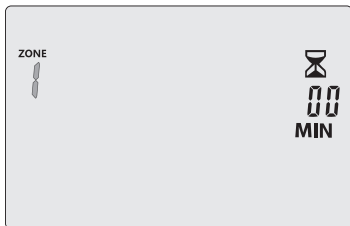
- Press the  button to enter the manually irrigating mode.



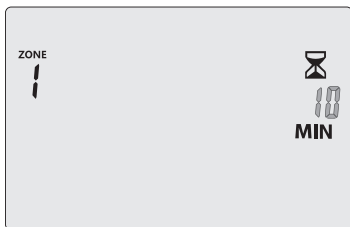
- All zones are selected by default. Press the ► button to move forward to the next option.
- Press the + or - button to set the desired watering duration time.
- Press the ⏸ button to quit setting and start irrigating. The device will automatically quit and start irrigating if there is no operation in 60 seconds.

Irrigate One or Several Zones

- Press the ⏸ button to enter the manually irrigating mode.



- Press the + or - button to select a zone, then press the ► button to move forward to the next option.

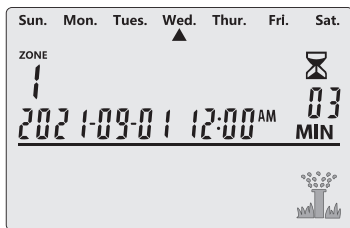


- Press the + or - button to set the desired watering duration time.



Note: Repeat the steps above if you want to set other zones.




- Press the ⏸ button to quit setting and start irrigating. The device will automatically quit and start irrigating if there is no operation in 60 seconds.

Display in Manual Irrigation Process: the screen displays the serial number of the current irrigation zone, the remaining time and the current date and time.

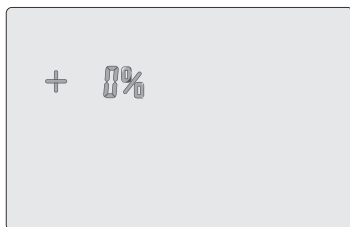



Note:

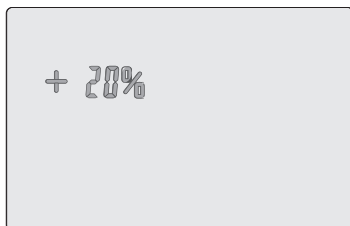
- In irrigating process, if you press the  button, all irrigation will be paused and the device will enter shutdown mode.
- You can press the  button to stop all irrigation and enter auto irrigation mode.



- You can press the  or  button to adjust the remaining watering time of the activated zone based on your need.
- You can press the  button to immediately cancel irrigation of the current zone and activate irrigation of the next zone in the sequence.

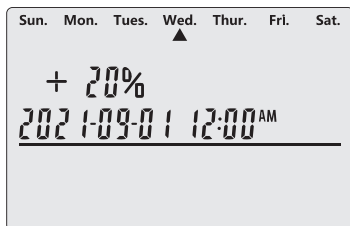
Seasonal Adjust: Adjust irrigation duration of all zones




- Press the  button to enter the setting of seasonal adjust.








- Press the  or  button to increase or decrease the watering duration time in percentage terms.





- Press the  button to quit and save the setting. The device will automatically quit and save the setting if there is no operation in 60 seconds.

Rain Sensor Bypass: Set controller to OBEY or IGNORE the Rain Sensor

a) Set Bypass for one or several zones

- Press the  button to enter the setting.
- Press the  or  button to select the desired zone number.
- Press the  button for 2 seconds to toggle between OBEY and IGNORE.
- A symbol of  is displayed when IGNORE is selected.

b) Main switch of rain sensor

- In auto mode, press the  button for 2 seconds to toggle between OBEY and IGNORE the rain sensor.
- A symbol of  is displayed when IGNORE is selected.

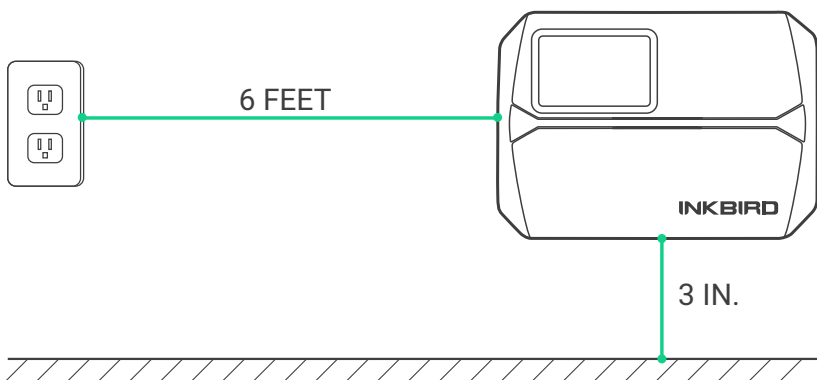
Note:

- In irrigating process, setting of the rain sensor is not allowed.
- If you choose IGNORE on the main switch of the rain sensor, one or several zones will ignore the rain sensor function while irrigating, regardless of the rain sensor setting on them.

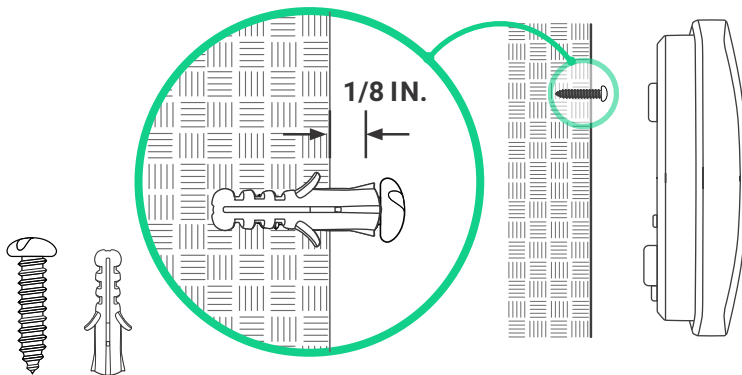
INSTALLATION

Controller Installation

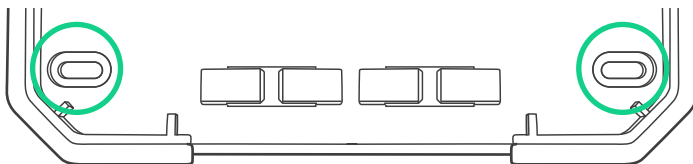
- Choose a proper place for installation where you can connect the device to an external power source. Please make sure the distance between the device and the power socket is under 6 feet (1.8 meters). Meanwhile, you should leave proper heights and space to install conduits of the device.



- Insert the screws into the wall. There should be a gap about 3 mm width between the screw head and the wall.



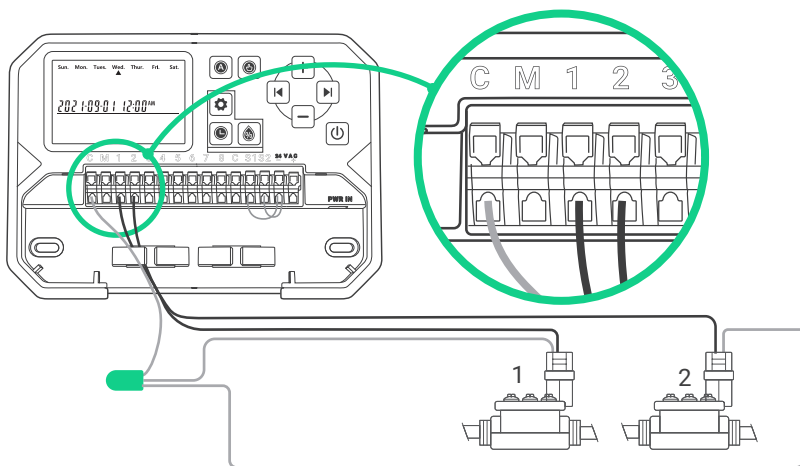
- You can tighten up both holes on the bottom using screws just in case, though it would be uneasy to disassemble them afterward.



Wiring Connection

a) Connect zone valves

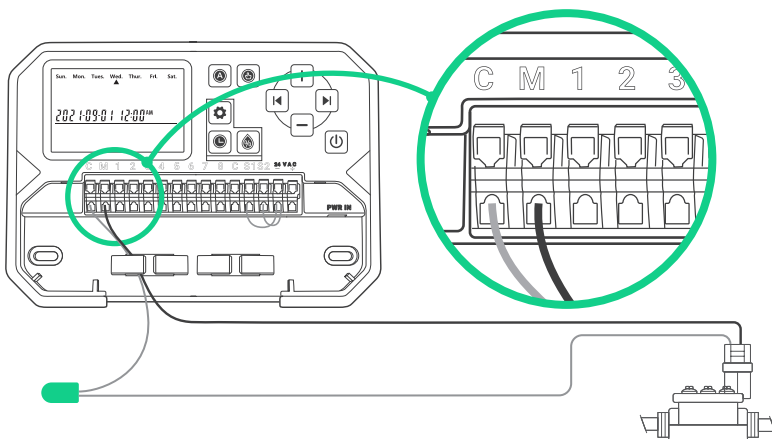
- Connect the power supply of each zone valve to the terminal of the controller, corresponding to the station number.
- Connect the common line of each valve to the common port C.



b) Connect master valve (optional)

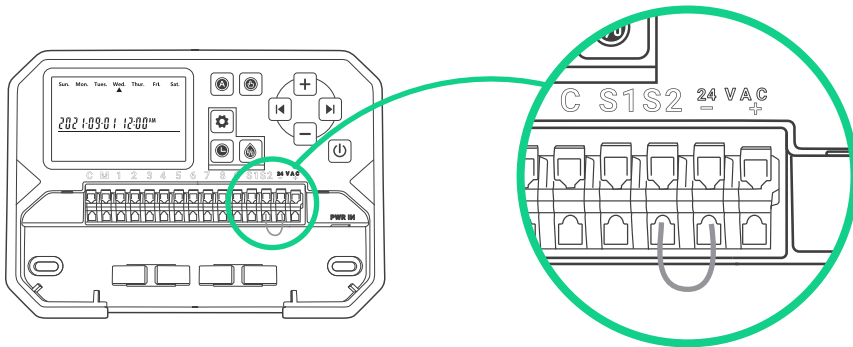
Optionally connect the master valve or the pump to the controller.

- Connect the power supply of the master valve or the pump to port M on the terminal of the controller.
- Connect the common line of the master valve or the pump to the common port C.

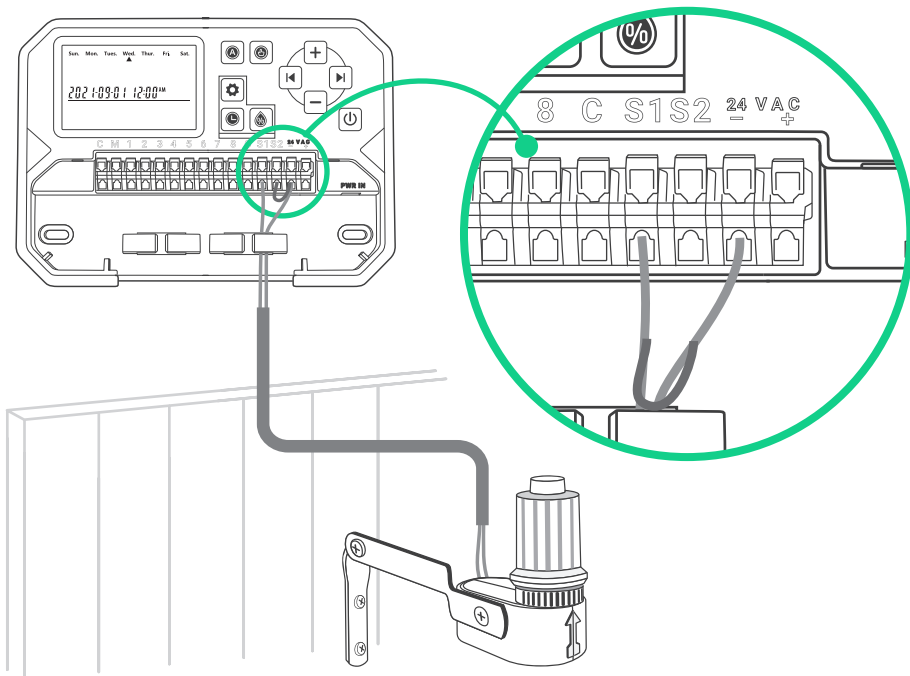


C) Connect rain sensors (optional)

- Remove the jumpers on ports 24 VAC- and S1 (or S2) of the terminal. (Two rain sensors can be connected at the same time.)



- Separately connect the 2 lines of the rain sensor to ports 24 VAC- and S1 (or S2).

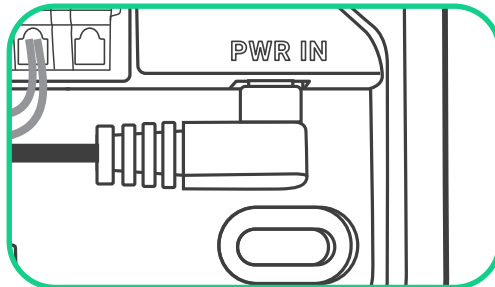


Note:

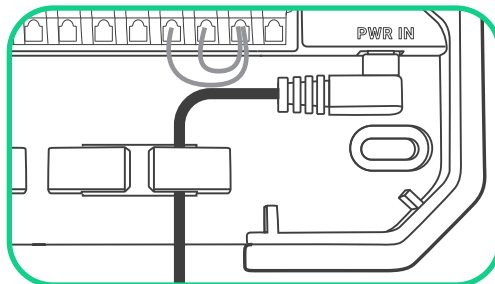
- The 24 VAC- port is a common port.
- You must connect the S1 port and S2 port with the 24 VAC- port if there is no rain sensor connected.

Power Supply Connection

- This controller adopts adapters following local safety regulations' certification, convenient and safe.
- Insert the power output end into the PWR IN jack of the device.



- Put power lines into the line slots of the device.

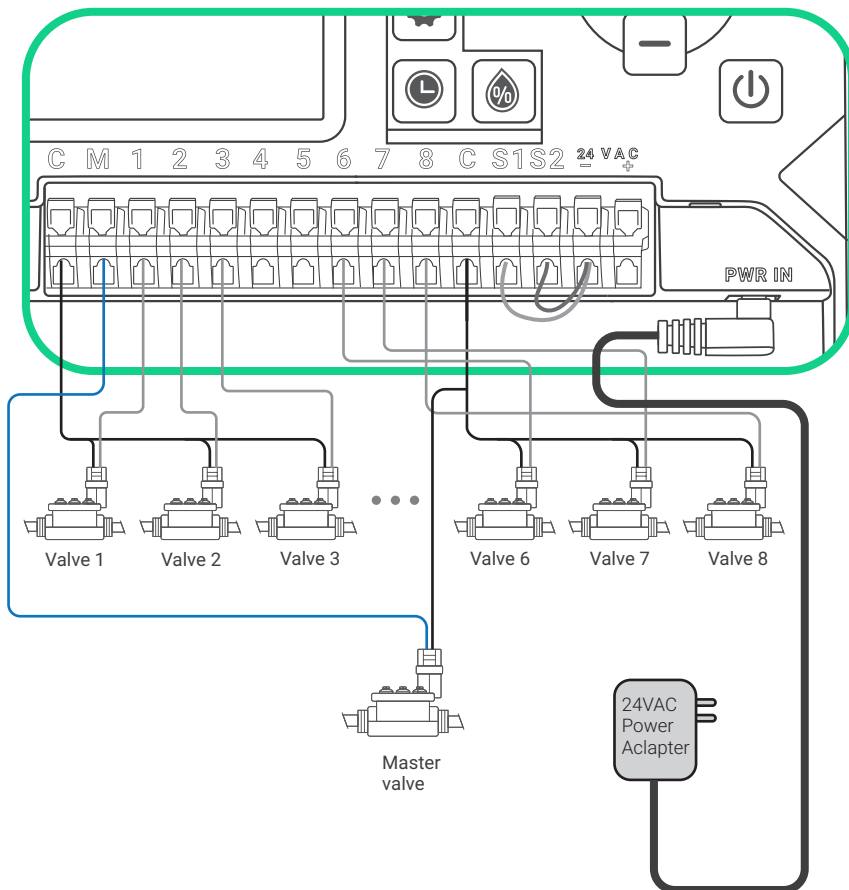


Note:

Please do not turn on the power before confirming all lines are well-connected.

- Please cut off the power of the line if it's damaged. In that case, we suggest changing a replacement line to avoid possible harm.

Wiring



TROUBLESHOOTING GUIDE

What can you do if the programmed system or the manual mode is not working? Here are some possible reasons and relative solutions for reference. We hope it's helpful. For any further questions, please feel free to contact INKBIRD.

TROUBLESHOOTING GUIDE

Q: The water supply is not available?

A: Please confirm whether the water main is disconnected and whether all water pipes are open and work normally.

Q: Lines are loose or incorrectly connected?

A: Please confirm whether the field line and the main valve, or the triac, are steadily connected to the controller, and firmly linked on the scene.

Q: Electrical wires on the scene are corroded or damaged?

A: Please install a replacement wire if the original one is damaged. You can install a waterproof connector if needed.

Q: The rain sensor in connection being activated?

A: Please dry out the rain sensor or disconnect it to the terminal of the controller, and then connect 2 SENS ports using the jumper.

Q: The jumper on the terminal that linked 2 SENS ports is missing or damaged?

A: Link 2 SENS ports on the terminal of the controller with a jumper, which is 3 to 4 mm thick.

PRODUCT WARRANTY

This item carries a 2-year warranty against defects in either components or workmanship. During this period, products that prove to be defective will, at the discretion of INKBIRD, be either repaired or replaced without charge.

FCC Requirement

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment 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. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

IRRIGATION SCHEDULE TABLE

Before programming the controller, we suggest using this irrigation schedule table to arrange watering work at each zone and keep it as a reference.

- Name each zone one by one on the second column, such as the lawn on the front yard, left side of the courtyard.
- Determine the irrigation duration time of each zone on the third column.
- Customize the watering start time of each zone on the fourth column (total 6 start times programmable for each zone).
- Select the cyclic days of irrigation on the fifth column by marking on the checkbox. If you choose intervals, please enter the number from 1 to 9.

| ZONE | DEFINITION | WATERING DURATION TIME | WATERING START TIMES | | WATERING CYCLIC DAYS |
|------|------------|------------------------|---|---|---|
| 1 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 2 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 3 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 4 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 5 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 6 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 7 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |
| 8 | | min | 1 : : am/pm 3 : : am/pm 5 : : am/pm | 2 : : am/pm 4 : : am/pm 6 : : am/pm | <input type="checkbox"/> Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. <input type="checkbox"/> odd days <input type="checkbox"/> even days <input type="checkbox"/> every ____ days |



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V 1.0

骑马订 140mm*190mm