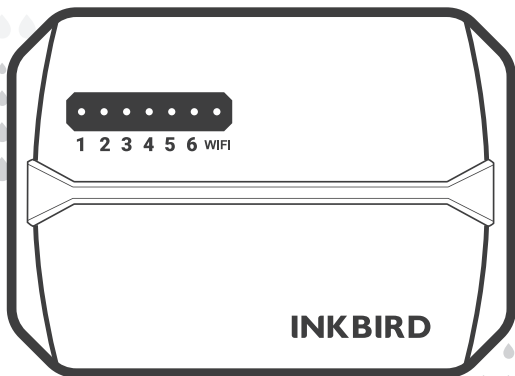# INKBIRD

SMART SPRINKLER CONTROLLER

IIC-600-WIFI

U S E R   M A N U A L   V2.0

Warm tips

- To quickly jump to a specific chapter page, click on the relevant text on the contents page.

- You can also use the thumbnail or document outline in the top left corner to quickly find a specific page.
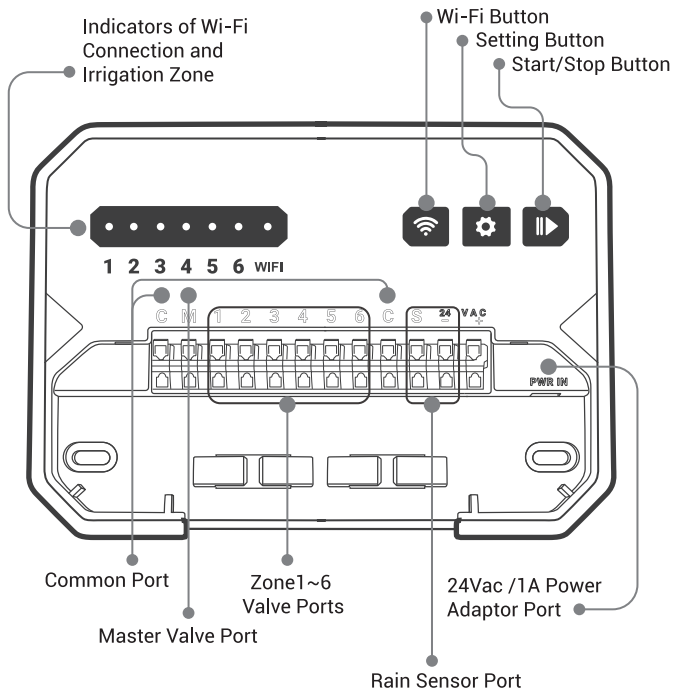
CONTENTS

01 OVERVIEW

INKBIRD IIC-600-WIFI is a smart sprinkler controller that can upgrade our water pipes into a smart automation system, saving us plenty of time we used to spend on watering. Also, it has Wi-Fi capability that enables us to control and monitor irrigation from our smartphones. It can control up to 6 zones and automatically start and stop irrigating at specific times we set. No more dead plants because we forgot to water them, and no more soggy lawns because we forgot to turn off the water. Featuring multiple user-friendly functions, IIC-600-WIFI is an ideal assistant to help us create a wonderful garden.

02 FEATURES & SPECIFICATIONS

• Product Name: Smart Sprinkler Controller
• Model: IIC-600-WIFI
• Power: 24VAC 1A
• For both indoors and outdoors
• Control by phone APP via Wi-Fi connections
• Control up to 6 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 (custom days/intervals/odd days/even days) to customize irrigation schedules, enhancing flexibility on controlling.
• 6 start times to run the same program multiple times in a day.
• Manual irrigation mode to immediately 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

Indicators of Wi-Fi Connection and Irrigation Zone

Wi-Fi Button

Setting Button

Start/Stop Button

Common Port

Zone1~6 Valve Ports

Master Valve Port

24Vac /1A Power Adaptor Port
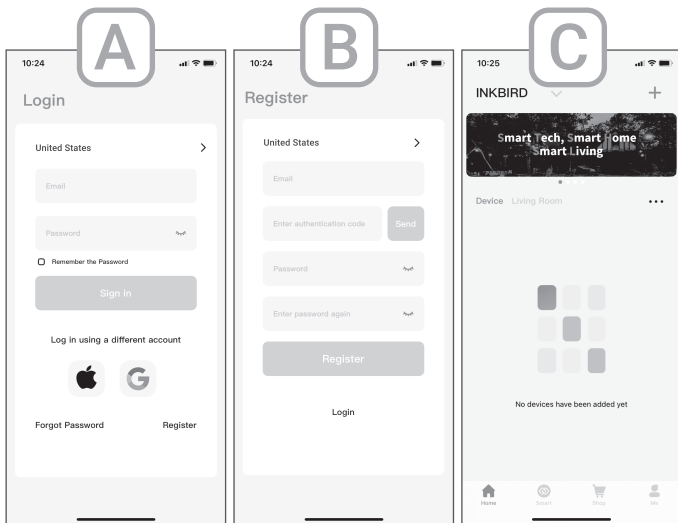
Rain Sensor Port

INKBIRD APP SETTINGS

Download the App

Search the keyword "INKBIRD" in App Store or Google Play, or scan the QR code on the left to download and install the APP.

Pair Your Phone

A

10:24

Login

United States   >

Email

Password

☐ Remember the Password

Sign in

Log in using a different account

 G

Forgot Password   Register

B

10:24

Register

United States   >

Email

Enter authentication code   Send

Password

Enter password again

Register

Login

C

10:25

INKBIRD   ∨   +

Smart Tech, Smart Home
Smart Living

Device Living Room   •••

No devices have been added yet

Home   Smart   Shop   Me

A Open the app and enter the login interface. You can log in by your Apple ID or Google ID.
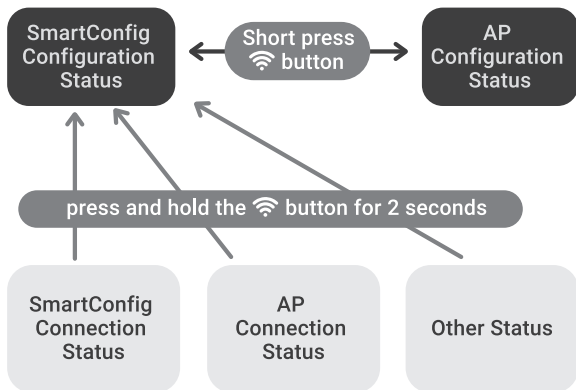
B You can also click register and use your email address as prompted to register.

C Registration and login are completed. Congratulation that you created your family successfully.

Add Products

Note: This device only supports 2.4GHz Wi-Fi networks.

```
┌──────────────┐   ┌─────────────┐   ┌──────────────┐
│ SmartConfig  │   │ Short press │   │     AP       │
│ Configuration│ ← │ 📶 button   │ → │ Configuration│
│   Status     │   └─────────────┘   │   Status     │
└──────────────┘                     └──────────────┘
```

press and hold the 📶 button for 2 seconds

| SmartConfig Connection Status | AP Connection Status | Other Status |

● Power on the device, reset Wi-Fi, and select a connection mode.

● Click "+" on the top right corner to add a device. Find and click IIC-600-WIFI on All Devices or Device Category.
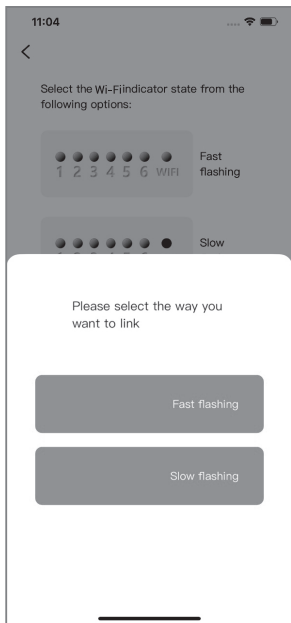
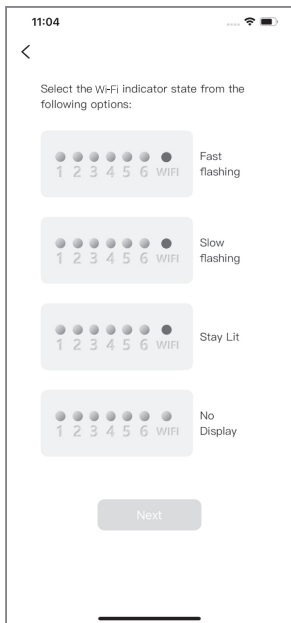## 1/ Power on the device

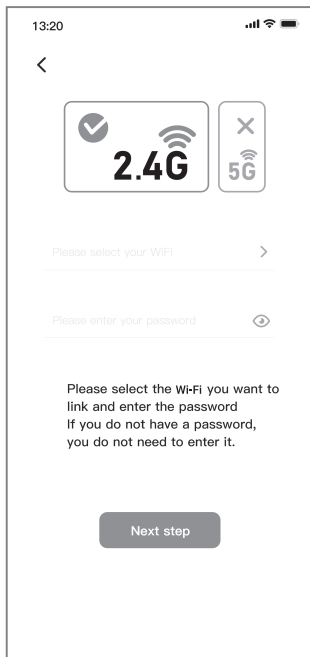**2/ Confirm the Wi-Fi icon status and click the relevant icon on the app.**
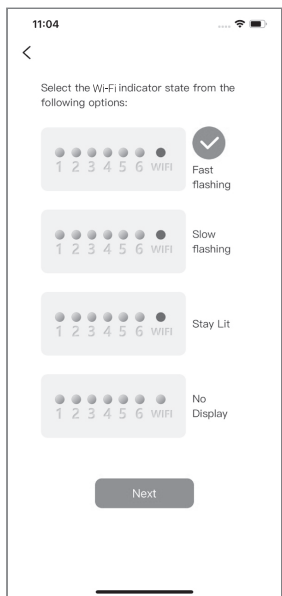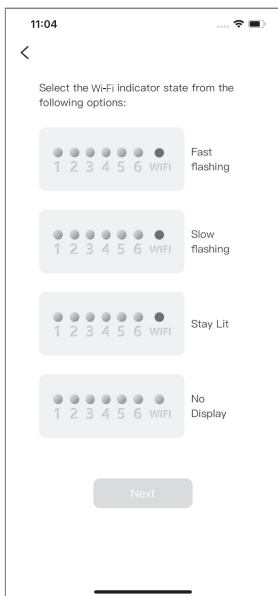
Note: If the Wi-Fi icon on the device is in the Stay Lit or No Display status, click the relevant icon on the app and follow the steps below.

● **Fast Flash**: Press and hold the 📶 button for 2 seconds to reset the Wi-Fi connection, and make sure the Wi-Fi indicator flashes quickly.

● **Slow Flash**: Press and hold the 📶 button for 2 seconds to reset the Wi-Fi connection. When the Wi-Fi indicator is quickly flashing, short press the 📶 button again to switch to the slow flashing state.

Note: To enter the fast flashing or slow flashing status, you should wait about 5 seconds after pressing the button before the status changes.

3/ SmartConfig Connection Mode (Fast Flash)

● Select your Wi-Fi device name, enter the Wi-Fi password, and click "Next Step" to start the connection.

Device is pairing

Cancel 90s

Pairing successful

● Pairing is successful.

4/ AP Connection Mode (Slow Mode)

● Select your Wi-Fi device name, enter the Wi-Fi password, and click "Next Step"to start the connection.
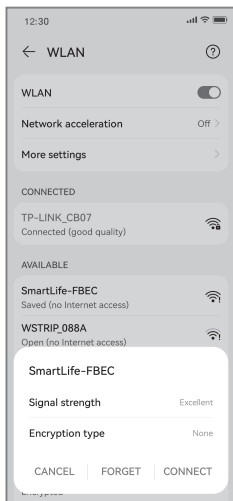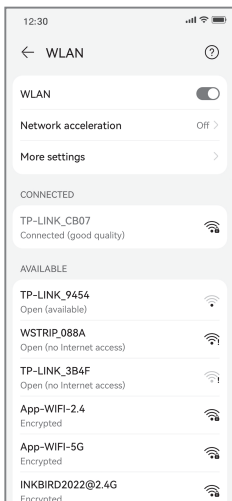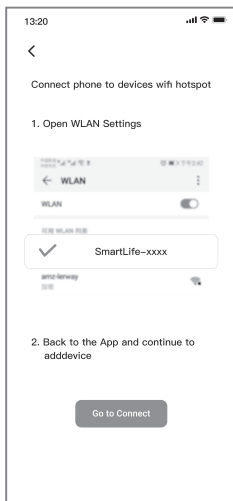
● Click "Go to Connect" to go to your phone's WLAN setting page, select the "SmartLife-XXXX" to connect to the router, and then return to the connection page.

13:20

Device is pairing

Cancel 90s

13:20

Pairing successful

● Pairing is successful.

Main Interface

Device Name

Back to
Home Page

12:30

IIC-600-WIFI

☁ **64°F**   Humidity 78.0%RH

Menu Information

Local Weather
Conditions

Scheduled Mode /
Manual Mode/
Schedules & History

Scheduled Mode   Manual Mode   Sch

1 zone

2 zone

3 zone

4 zone

5 zone

6 zone

Zone Number

Edit Schedules

Edit Multi-zone
Schedules

🗇 Multi-zone Settings

Main Interface

Back to
Home Page

11:23

Settings

Main Switch Of Rain
Sensor
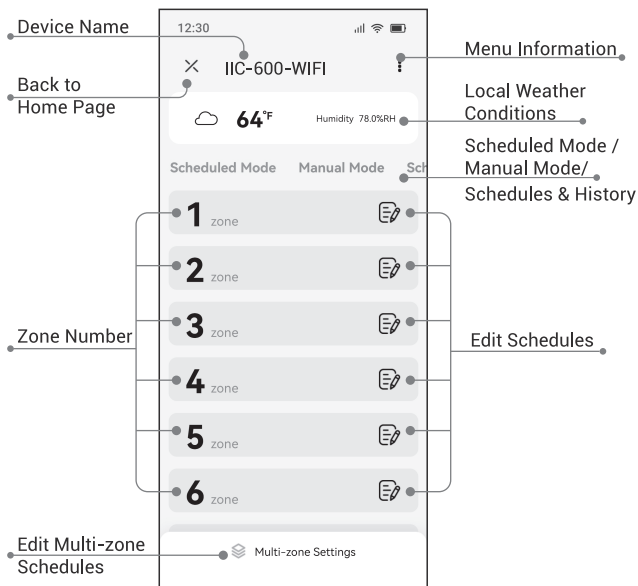
Rain Sensor Switch
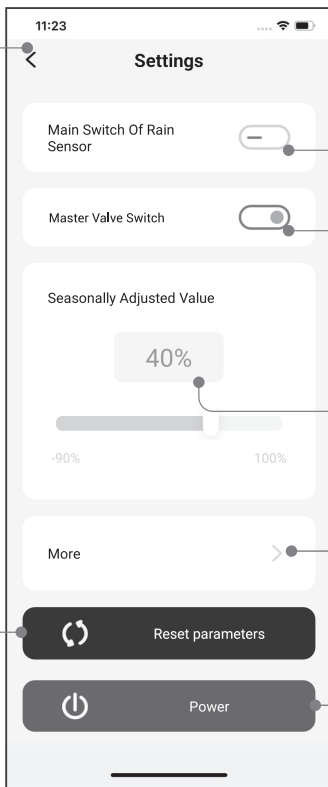
Master Valve Switch

Master Valve Switch

Seasonally Adjusted Value

40%

Seasonally
Adjusted Value

-90%   100%

More

More
Information

Reset
Parameters

Reset parameters

Power

Power
ON/OFF

Scheduled Watering Interface

Information of the upcoming irrigation zone

Information of current irrigating zone

Finished Time

Seasonally Adjusted Value

Remaining Time

Scheduled Time

Watering Period

Zone Number

Cancel irrigation of the current zone and activate irrigation of the next zone in the sequence.
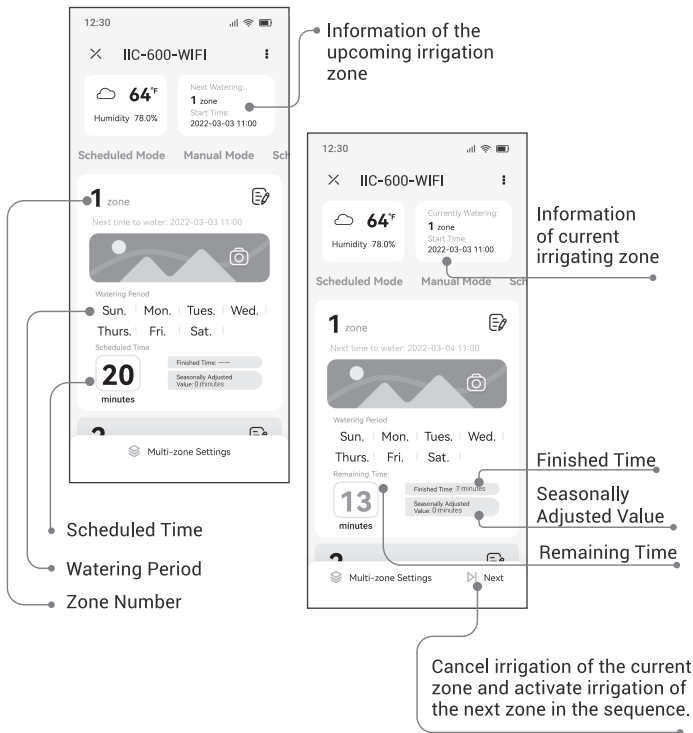
Setting Interface of Scheduled Watering

Confirm the settings

Shut down the zone

Cancel the setting and restore the last setting parameters

Zone description, such as "Front yard garden"

Watering Peroid

Choose to obey or ignore the rain sensor on this zone
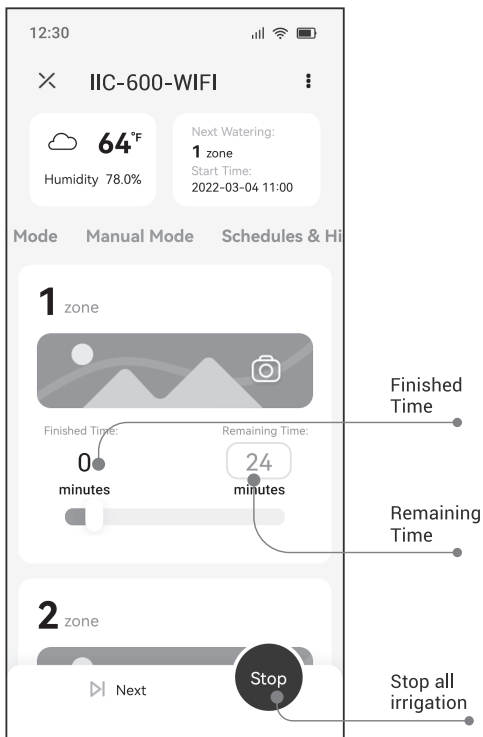
Scheduled irrigation time

Start Time

Shut down the zone and restore default data

12:30

Cancel   ⬤   Done

1 zone

Watering Period

Odd Days   Even Days   Customize   Intervals

Sun.   Mon.   Tues.   Wed.

Thurs.   Fri.   Sat.

Obey or Ignore Rain Sensor?

Obey   Ignore

Scheduled irrigation time

20
minutes

the block or click minutes to set the duration time

Start Time

×   ×   ×

11:00   15:00   17:30

+

Reset

Setting Interface of Manual Watering

Zone Number

Manual watering time

Multi-zone Settings

Start irrigation

Stop irrigation at the current zone and enter the next zone

12:30

✕ IIC-600-WIFI ⋮

☁ **64**°F
Humidity 78.0%

Next Watering:
1 zone
Start Time:
2022-03-04 11:00

Mode   Manual Mode   Schedules & Hi

1 zone

Remaining Time:
0
minutes

Slide the block or click minutes to set the duration...

2 zone

⬙ Multi-zone Settings   Start

12:30

✕ IIC-600-WIFI ⋮

☁ **64**°F
Humidity 78.0%

Next Watering:
1 zone
Start Time:
2022-03-04 11:00

Mode   Manual Mode   Schedules & Hi

1 zone

Remaining Time:
24
minutes

2 zone

⬙ Multi-zone Settings   Start

12:30

✕ IIC-600-WIFI ⋮

☁ **64**°F

Humidity 78.0%

Next Watering:
1 zone
Start Time:
2022-03-04 11:00

Mode   Manual Mode   Schedules & Hi

1 zone

Finished Time:
0
minutes

Remaining Time:
24
minutes

Finished
Time

Remaining
Time

2 zone

▷ Next   Stop

Stop all
irrigation

DEVICE OPERATION

Manual Mode

Press the ⚙ button to enter the setting mode, and the indicator lights of each channel are on. When setting channel one, the indicator of channel one flashes. Press the 📶 button to cancel the manual irrigation of that channel and enter the setting of the next channel. Press the ⚙ button to confirm the setting and advance to set the next channel. Press and hold the ⚙ button for two seconds (or no operation for one minute) to exit the setting and return to the automatic mode.

Press the ⏸▶ button to exit the setting and start irrigation (within 30 minutes). During irrigation, the corresponding channel indicator remains on, and you can press the ⏸▶ button to cancel the irrigation on this zone and go forward to the next zone in sequence. Press and hold the ⏸▶ button for two seconds to stop all irrigation.

Automatic Mode

During irrigation, short press the ⏸▶ button to immediately deactivate the active zone and move forward to the next zone in the irrigation sequence. Press and hold the ⏸▶ for 2 seconds to stop all irrigation.

05 INSTALLTION

Controller Installation

Choose a proper place for installation where we 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

6 FEET

1 2 3 4 5 6 WIFI

INKBIRD

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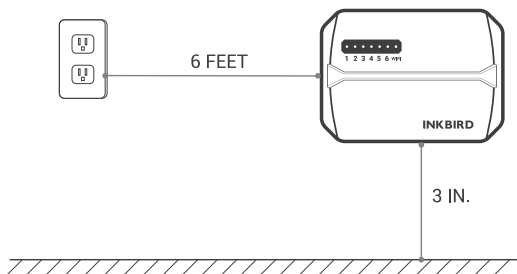
Insert the screws into the wall. There should be a gap about 3 mm width between the screw head and the wall.
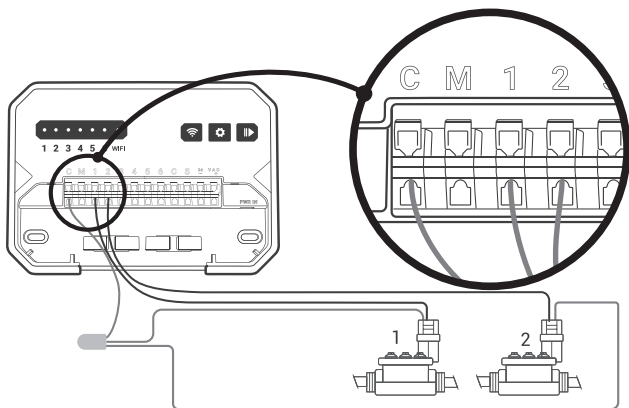

1/8 IN.
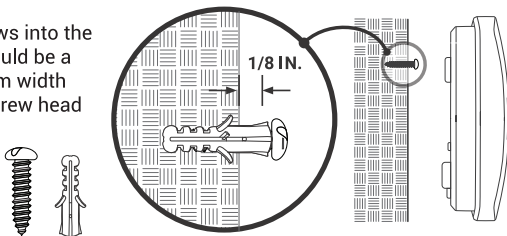
You can tighten up both holes on the bottom using screws just in case, though it would be uneasy to disassemble them afterward.
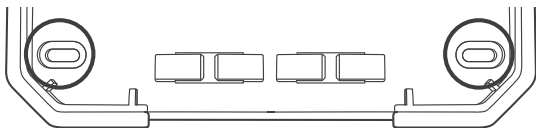
## *Wiring connection*

a) Connect zone valves

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

b) Connect master valve (optional)

Connect an optional master valve or water pump to the controller.

● Connect the power cable of the master valve or water pump to port M on the controller terminal.

● Connect the common line of the master valve or water pump to the common port C.
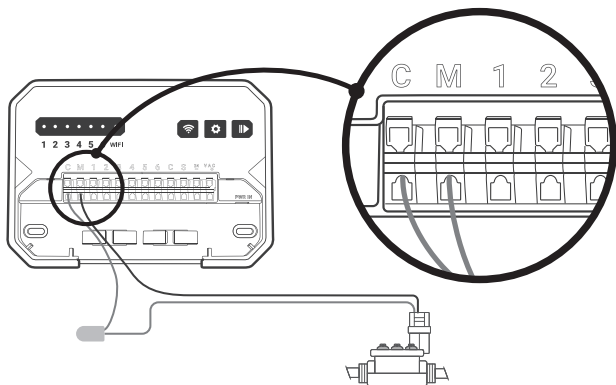
## c) Connect Pump Start Relay (optional)

● Connect an optional pump start replay to the IIC-600-WIFI controller.

Water pumps are used to extract water from wells or other water sources. If you want to start up the water pump of the controller, you must install a pump start relay. The connection method of the pump start relay and the controller is the same as that of the main valve, but the connected water source is different.

Note: The IIC-600-WIFI controller does not provide the main power supply for the water pump.
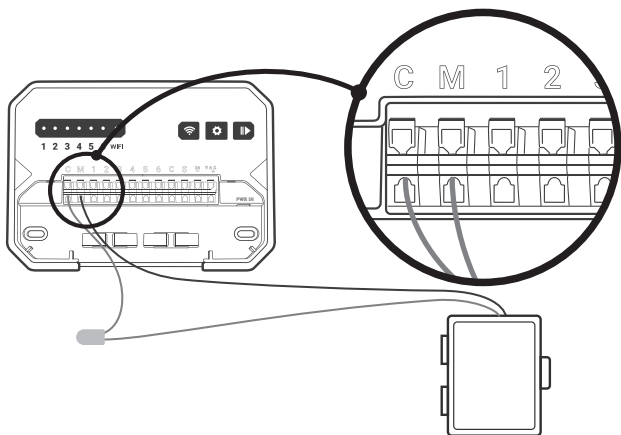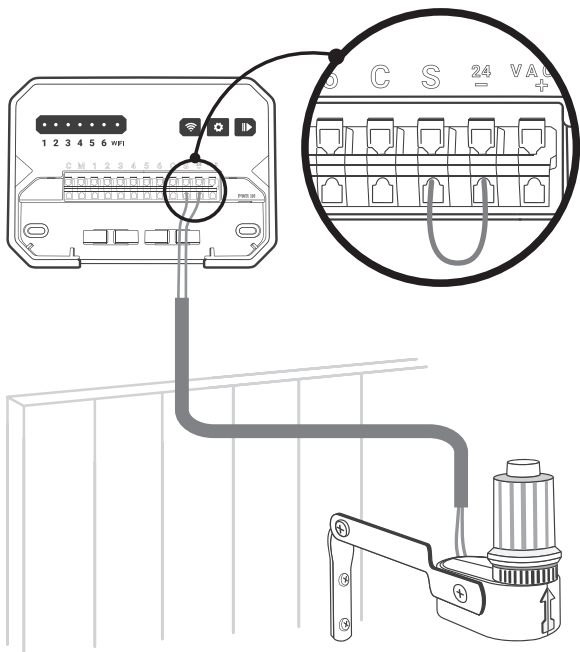
d) Connect rain sensors (optional)

● Remove the jumpers for port 24 VAC- and port S on the terminal.
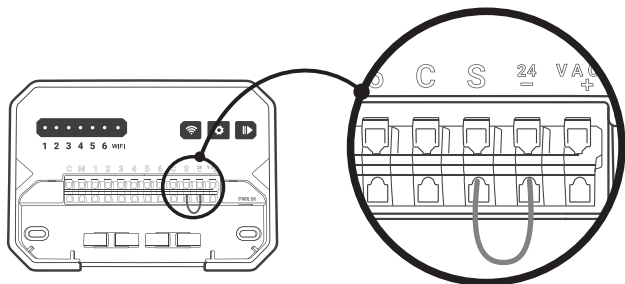
● Separately connect the line of the rain sensor to port 24 VAC- and port S.

Note:

● The 24 VAC- port is a common port.

● You must connect the S port with the 24 VAC- port if there is no rain sensor connected.

Connect Power Supply

- This controller adopts an adapter following local safety regulations' certification, which is convenient and safe.
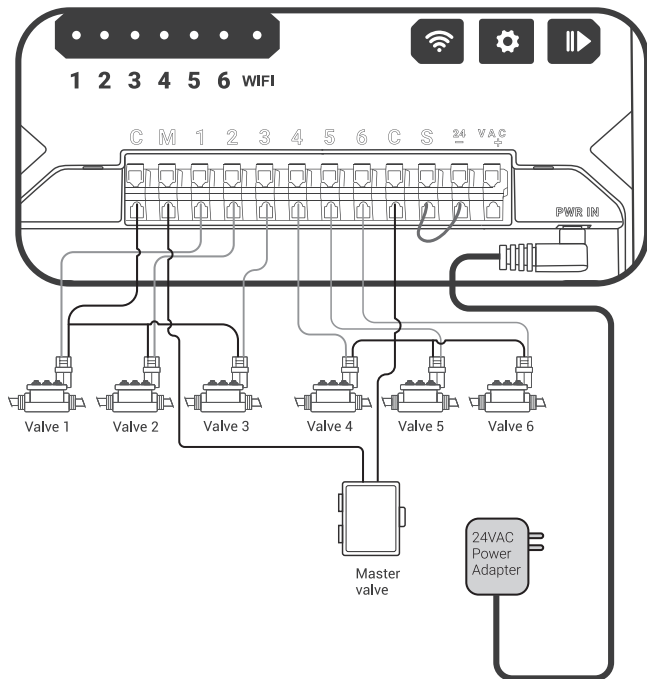- Insert the power output end into the PWR IN jack of the device.
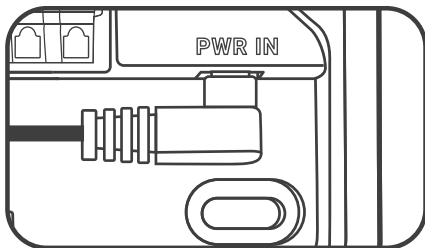
- Put power lines into the line slots of the device.
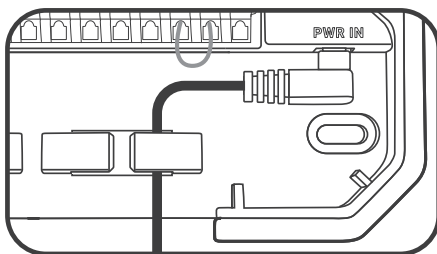
Note:
- **PLEASE DO NOT turn on the power before confirming all lines are well connected.**
- **Please cut off the power of the line if it's damaged. In that case, we suggest changing a replacement line to avoid danger.**

Wiring Diagram

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 they are helpful. For any further questions, please feel free to contact INKBIRD.

Q: The water supply is not available?

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

Q: Lines are loose or incorrectly connected?

A: Please confirm if the ground 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 S and 24- ports is missing or damaged?

A: Please replace it with any conductive wire.

07 PRODUCT WARRANTY

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

08 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. 24

09 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	DEFINI-TION	WATERING DURATION TIME	WATERING START TIMES	WATERING CYCLIC DAYS
1		min	1___:___ am/pm 2___:___ am/pm 3___:___ am/pm 4___:___ am/pm 5___:___ am/pm 6___:___ am/pm	☐ Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. ☐ odd days ☐ even days ☐ every ___ days
2		min	1___:___ am/pm 2___:___ am/pm 3___:___ am/pm 4___:___ am/pm 5___:___ am/pm 6___:___ am/pm	☐ Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. ☐ odd days ☐ even days ☐ every ___ days
3		min	1___:___ am/pm 2___:___ am/pm 3___:___ am/pm 4___:___ am/pm 5___:___ am/pm 6___:___ am/pm	☐ Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. ☐ odd days ☐ even days ☐ every ___ days
4		min	1___:___ am/pm 2___:___ am/pm 3___:___ am/pm 4___:___ am/pm 5___:___ am/pm 6___:___ am/pm	☐ Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. ☐ odd days ☐ even days ☐ every ___ days
5		min	1___:___ am/pm 2___:___ am/pm 3___:___ am/pm 4___:___ am/pm 5___:___ am/pm 6___:___ am/pm	☐ Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. ☐ odd days ☐ even days ☐ every ___ days

ZONE	DEFINI-TION	WATERING DURATION TIME	WATERING START TIMES		WATERING CYCLIC DAYS
6		min	1____:____ am/pm 3____:____ am/pm 5____:____ am/pm	2____:____ am/pm 4____:____ am/pm 6____:____ am/pm	☐ Days of the week: Mon. Tue. Wed. Thur. Fri. Sat. Sun. ☐ odd days ☐ even days ☐ every ____ days

V2.0