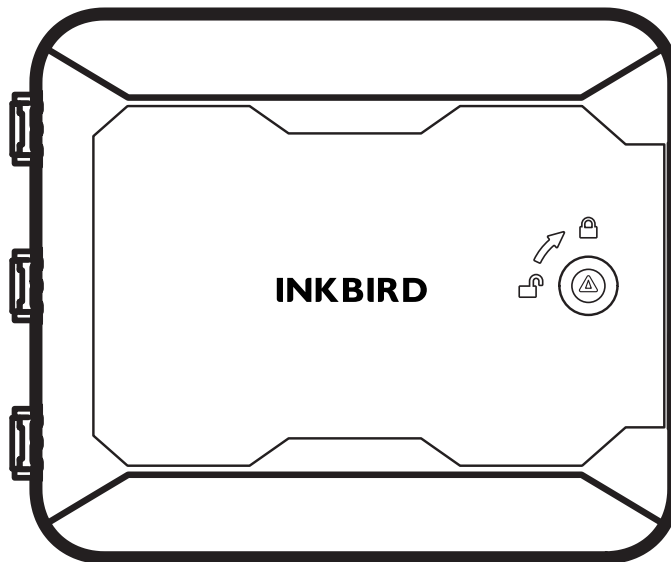


INKBIRD

OUTDOOR SMART IRRIGATION CONTROLLER



IICO Series(8&12&16 Zones)

USER MANUAL



Please keep this manual properly for reference. You can also scan the QR code to visit our official website for product usage videos. For any usage issues, please feel free to contact us at **support@inkbird.com**.

Wenn Sie eine Bedienungsanleitung in deutscher Sprache benötigen, scannen Sie bitte den QR-Code und besuchen Sie unsere Website, um sie zu erhalten und ein Video über die Verwendung des Produkts zu sehen.

Se avete bisogno di un manuale di istruzioni in italiano, scansionate il codice QR e visitate il nostro sito web per ottenerlo e vedere un video su come utilizzare il prodotto.

Si vous avez besoin d'un mode d'emploi en français, veuillez scanner le code QR pour visiter notre site officiel afin d'obtenir et de visionner la vidéo d'utilisation du produit !

Als je een Nederlandstalige handleiding nodig hebt, scan dan de QR-code om naar onze officiële website te gaan en bekijk de video over het gebruik van het product!

Si necesita el manual de instrucciones en español, escanee el código QR para ir a nuestro sitio web oficial y ver el vídeo sobre cómo utilizar el producto.



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.

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02 TOOLS YOU WILL NEED

2.4Ghz Wi-Fi Access



Smartphone or Tablet



Screwdriver



Hammer



Electric Drill

03 ELECTRICAL SPECIFICATIONS

● Electrical Specifications

<i>Input</i>	<i>AC120V 60Hz 180mA Max or AC230V 50Hz 180mA Max</i>	<i>Zone Output</i>	<i>Compatible with AC24V control valve</i>
<i>Output</i>	<i>AC24V 1000mA</i>	<i>Master/Pump Valve Output</i>	<i>AC24V</i>
<i>Controller Input</i>	<i>AC24V 1000mA</i>		

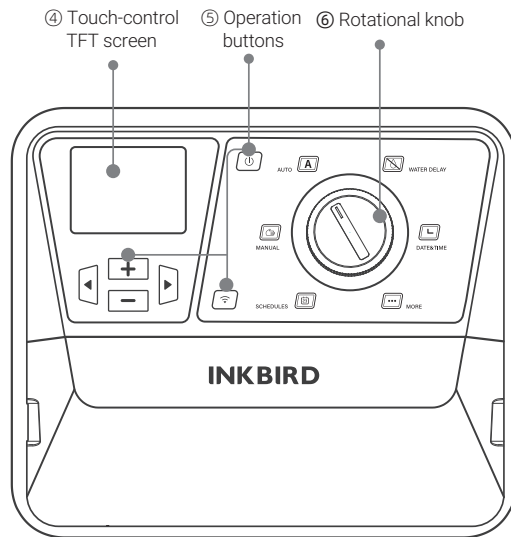
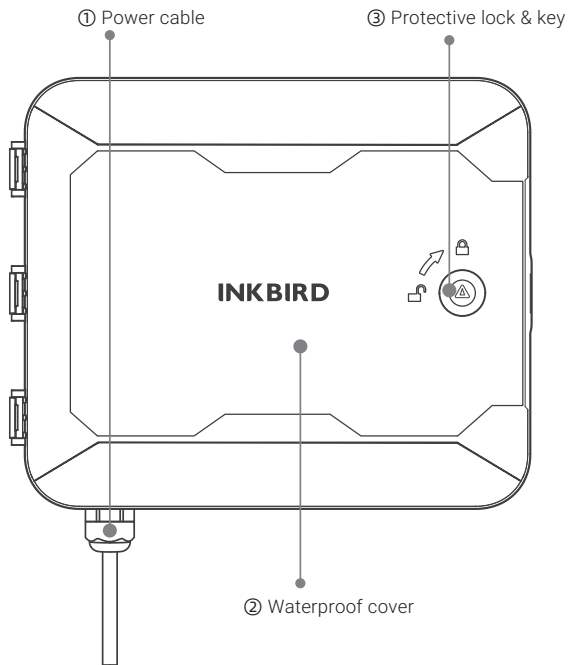
04 APP INSTALLATION REQUIREMENTS

● App Installation Requirements







- iOS or Android compatible device (iOS 13/Android 7.1 and later)
- 2.4GHz wireless network signal available at the installation location
- Support WEP/WPA/WPA2/WPA2 PSK(AES) security modes

05 PRODUCT SPECIFICATIONS

- **Controller Size:** 9.02"*7.91"*3.78"/229.2mm*201mm*96mm
- **Product Weight:** 48.68oz/1380g



⑤ Operation buttons




-  **Power button:** Press and hold it for 3 seconds to power on or off.
Shutdown state: When the device enters shutdown mode, no schedules will be executed.
-  **WiFi button:** Press and hold it for 2 seconds to reset the WiFi connection. Wait for the WiFi icon to flash, which indicates that pairing mode has been entered.
-  **Back button:** Press it to select the previous menu option.
-  **Next button:** Press it to select the next menu option.
-  **+ button:** Press it to select a menu or adjust a parameter.
-  **- button:** Press it to select a menu or adjust a parameter.

⑥ Rotational knob





 — Turn the rotational knob to the **AUTO** position to monitor the activated watering.

- In automatic mode, the screen displays the current date and time in the format HH:MM DD-MM-YY, and the date and time of the next watering schedule.

Note: If no schedule has been added, the screen will display 'No watering schedule'.


- When the  icon lights up on the screen, it means that the system is in Manual Skip mode. During this time, all schedules will not be executed.
- When the  icon lights up on the screen, it means that the system is in Rain Skip Mode. During this time, any schedules that obey the Rain Skip setting will not be executed.
- When the  icon lights up on the screen, it means that the system is in Freeze Skip Mode. During this time, any schedules that obey the Freeze Skip setting will not be executed.







 — Turn the rotational knob to the **MANUAL** position to enter the setting of Quick Run.


- Use the , ,  and  buttons to select one or more zones for Quick Run watering. You can also access the "Set time for all" interface to select all zones and set the watering time at once.


NOTE:


- No zone is selected by default and the screen displays the last set watering time and the 'Set time for all' character.
- When the watering time is set to 00 hrs 00 min, it means that the watering time is unlimited.

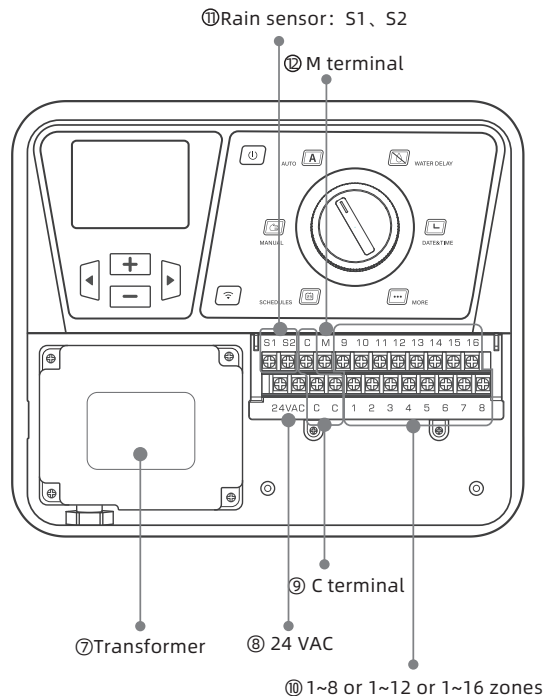
 --- Turn the rotational knob to the **SCHEDULE** position to access the interface for creating, modifying, or deleting watering schedules.

- If no schedules have been added, the screen displays 'No watering schedule'. Once a schedule has been added, the screen will show the watering type  or  and schedule name (e.g. 'Schedule X', where 'X' can be any number from 1 to 16), the start time of the schedule, the schedule edit icon , the schedule switch icon , the 'Delete' character (for deleting schedules) and the 'Add' character (for adding schedules). The watering type  means 'No cycle and soak', while  means 'Cycle and soak'.

 --- Turn the rotational knob to the **MORE** position to adjust various settings, including the zone switch menu, unit conversion, rain skip delay time, rain sensor switch, seasonal adjustment value, weather thresholds such as rainfall probability, precipitation, frost temperature and wind speed, zone delay time (for 'No cycle' and 'Soak' schedules only), main valve or pump relay switch, buzzer switch, zone flow setting and factory reset.

 --- Turn the rotational knob to the **DATE&TIME** position to set the current year, month, date and time in the following order: day, month, year, hour, minute, second.

 --- Turn the rotational knob to the **WATER DELAY** position to set the watering delay time. You can choose from the following options: 'Skip some days', 'Skip a period of time', 'Skip specific days' or 'Skip specific dates'.

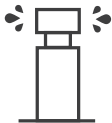


07 INSTALLATION STEPS

- Before installation, ensure that the device can connect to WiFi without any issues.

Step1: Remove your old controller

First, test your old controller to make sure it can work properly. Then use the included label stickers to mark all the lines you have connected. Finally, remove the old controller.



Check all sprinklers



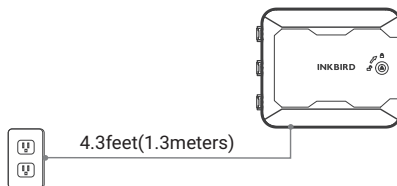
Mark all wires



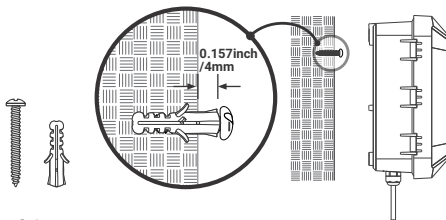
Remove old controller

Step 2: Mark Screw Locations

1. Please make sure the distance between the device and the power socket is under 4.3 feet (1.3 meters).

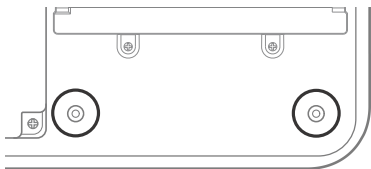


2. Refer to the '*Drawing of the Location of the Installation Holes*' and follow the operating steps. Then, secure the top screw. Pay attention to leave a proper distance between the nut and the wall for hanging the controller.



Step 3: Install Your New Controller

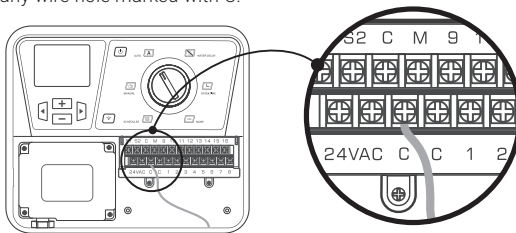
Align the electric drill with the hole in the rubber shell at the bottom, then punch through it. Then, hang the device up and tighten the screw through the newly punched hole into the marked expansion tube.

**Step 4: Wire Connection**

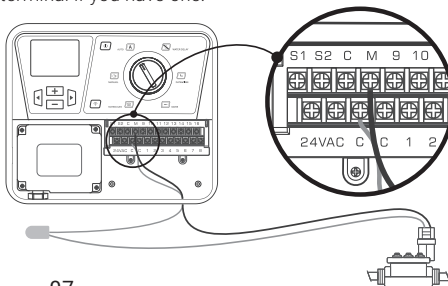
Attach the labels for the marked wires to your new device.

C Common Wires

Common port is usually marked with C. A common wire can be inserted into any wire hole marked with C.

**M Master valve /Pump start relay****1.Master valve (optional)**

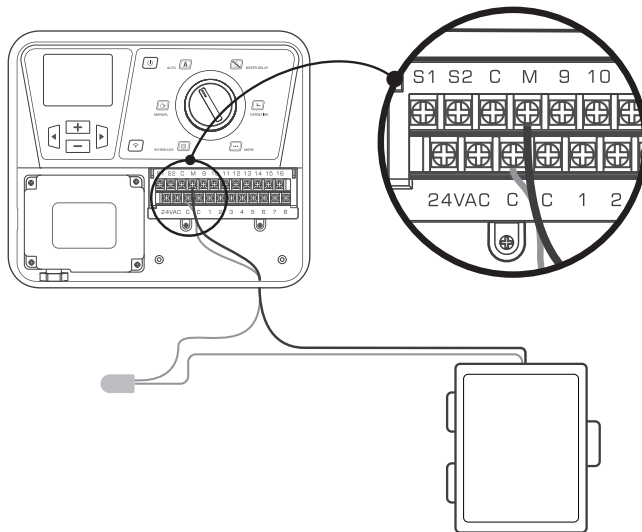
Master valve wires are usually labeled "M". Wire the master valve into the "M" terminal if you have one.



2. Water Pump Start Relay (optional)

Connect the water pump start relay to the controller. The water pump draws water from a well or another water source. To start the water pump via the controller, you will need a water pump start relay. The pump start relay is connected to the controller in the same way as the main valve, but it is connected to a different water source.

Note: Never connect the water pump directly to the controller. Doing so will damage your controller and invalidate your warranty.



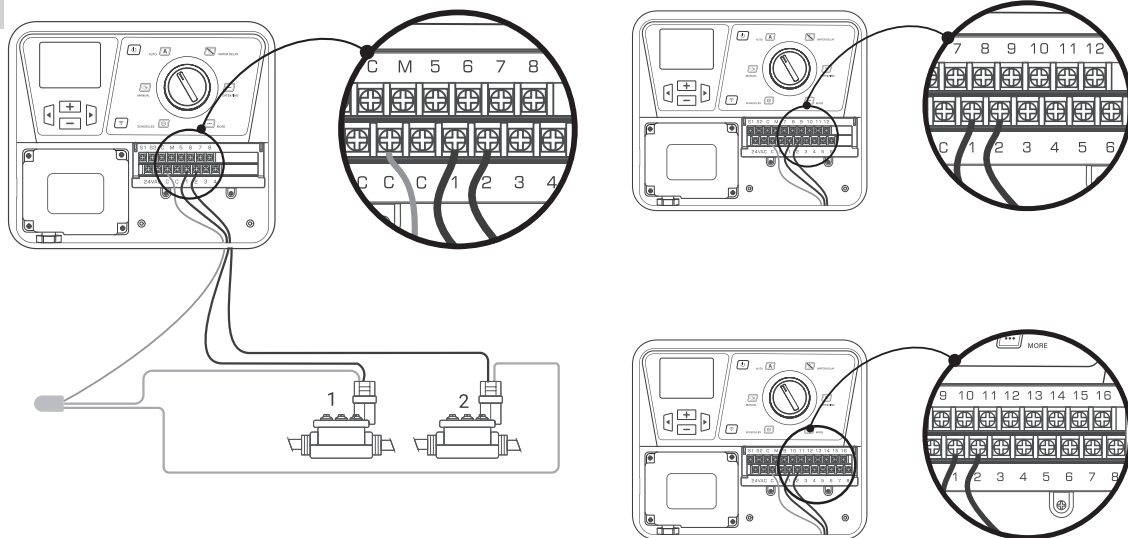
Pump Start Relay

1~8 or 1~12 or 1~16

Zone Wires

Zone wires correspond to the areas that are to be watered, and they should be inserted into the labeled numbers.

English



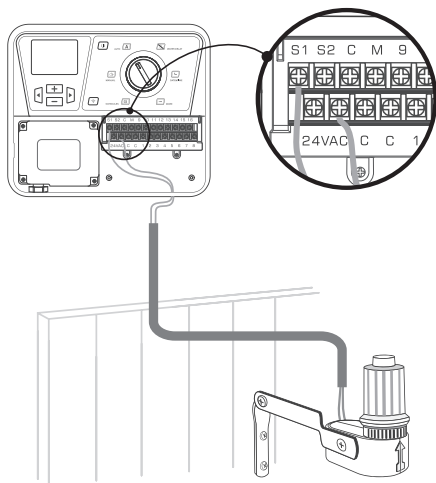
S1

S2

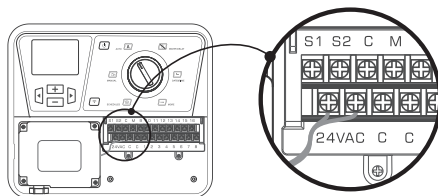
Rain sensor (optional)

Rain sensor wires are usually labeled "S1" "S2", wire it into the "S1" or "S2" and "VAC" terminals. You can connect up to 2 rain sensors.

Note: Please enable the rain sensor on the app if you are running a rain sensor.

**24VAC Input**

Connect the two output wires of the transformer to the "24" and "VAC" terminals. Color matching is not required. Then, plug into a power outlet.

**Note:**

1. Please do not turn on the power before all wires are well connected. Please cut off the power of the controller if any wire is damaged. In that case, we recommend replacing the damaged wire to avoid hazards.
2. To avoid the risk of high-voltage electricity, make sure you cut off the power before replacing the transformer.

Congratulations! You are now ready to use the new controller! Let's start a new irrigation journey!



Remotely control
your device



Create your smart
IoT home



Optimize your
watering schedule

8.1 Search for the INKBIRD App from Google Play or App Store to get it for free, or you can scan the QR code below to download it directly.

**Note:**

- Your iOS devices must be running iOS 12.0 or above to download the app smoothly.
- Your android devices must be running android 7.1 or above to download the app smoothly.
- The device supports a 2.4GHz Wi-Fi router only.
- APP Location Permission Requirement: We need to obtain your location information to discover and add nearby devices. INKBIRD promises to keep your location information strictly confidential. And your location information will only be used for the location function of the App and will not be collected, used, or disclosed to any third party. Your privacy is very important to us. We will abide by relevant laws and regulations and take reasonable security measures to protect your information security.

8.2 Registration

Step1: Registering an account is necessary before using the INKBIRD app for the first time.



Step2: Open the app, select your Country/Region, and a verification code will be sent to you.

Step3: Enter the verification code to confirm your identity, and the registration is complete.

8.3 How to connect?

Open the INKBIRD app and click "+" on the top right corner to add a device. Then, follow the app instructions to complete the Wi-Fi connection.

What should you do if your wireless network or irrigation system is not working properly? The potential causes and solutions are listed below for your reference. We hope you find this information helpful. If you require further assistance, please email us at support@ink-bird.com at any time.

<p>WiFi Connection Issue (What if the Wi-Fi connection breaks?)</p>	<ol style="list-style-type: none"> 1. Make sure that your router's WiFi band has been switched to 2.4 GHz. This product only supports routers operating at 2.4 GHz WiFi. 2. Make sure that the distance between the router and the controller stays within the connection range. Obstructions, such as walls, can affect wireless connections. 3. Make sure that the Bluetooth function is enabled on your smartphone. This will allow the controller to pair with your smartphone more quickly. 4. Make sure that the WiFi function on the controller remains in the connected state, with the WiFi icon flashing slowly. If not, press and hold the  button for 2 seconds to reset the WiFi connection.
<p>Equipment Issue (What if the controller fails to work properly?)</p>	<ol style="list-style-type: none"> 1. If the indicator light does not illuminate after you have plugged the device in, make sure that the power adapter is fully inserted into the power port and that the main power switch is turned on. 2. If the controller does not execute the watering action after enabling the automatic watering mode, check that all the wires are connected correctly and that the water valve is compatible with the 24 VAC control voltage.
<p>Setting Issue (How to reset WiFi or the device?)</p>	<p>Press and hold the  button for 2 seconds to rest WiFi.</p>
<p>Screen Issue (What if the indicator light doesn't light up?)</p>	<ol style="list-style-type: none"> 1. Make sure that the power adapter is functioning normally. 2. Make sure that the power is correctly connected to the power input port.

10 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.

11 CUSTOMER SERVICE

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. For any problems in use, please feel free to contact us at support@inkbird.com. We will do our best to help you.

Shenzhen Inkbird Technology Co.,Ltd.

support@inkbird.com

Consignor: Shenzhen Inkbird Technology Co., Ltd.

Office Address: Room 1803, Guowei Building, No.68 Guowei Road, Xianhu Community, Liantang, Luohu District, Shenzhen, China

Manufacturer: Shenzhen Inkbird Technology Co., Ltd.

Factory Address: 5th and 6th Floor, Building 138, No. 71, Yiqing Road, Xianhu Community, Liantang Street, Luohu District, Shenzhen, Guangdong, China



V1.0

MADE IN CHINA

DESIGNED BY INKBIRD