

Inkbird IIC-600-WIFI

INKBIRD IIC-600-WIFI Smart Sprinkler Controller User Manual

Model: IIC-600-WIFI | Brand: Inkbird

1. INTRODUCTION

The INKBIRD IIC-600-WIFI Smart Sprinkler Controller is designed to transform your traditional sprinkler system into an intelligent, automated watering solution. With its built-in 2.4G WiFi module, you can remotely manage and monitor your irrigation schedules via the INKBIRD app, ensuring efficient water usage and healthy landscapes.

Key Features:

- **WiFi Remote Control:** Set and monitor watering schedules from anywhere using the INKBIRD app (iOS 11.0+ and Android 5.0+ compatible).
- **Non-volatile Memory:** All settings are saved indefinitely, even during power outages.
- **Flexible Scheduling:** Choose from 4 cyclic options (days of the week, intervals, odd/even days) and set up to 6 start times per zone.
- **Home Management & Notifications:** Share control with family members and receive real-time notifications for offline status or watering completion.
- **Rain Sensor & Seasonal Adjust:** Supports external rain sensors to prevent overwatering and allows for manual seasonal adjustment of watering times.



Figure 1: The INKBIRD IIC-600-WIFI Smart Sprinkler Controller shown alongside its mobile application interface.

2. SAFETY INFORMATION

Please read all safety instructions carefully before installation and operation. Failure to follow these guidelines may result in property damage, injury, or electric shock.

- Ensure the power supply is disconnected before performing any wiring or maintenance.
- Install the controller in a location protected from direct weather exposure, unless specifically rated for outdoor use.
- Use only the provided power adapter or a compatible 24 Volts AC power source.
- Keep the device away from water sources and excessive humidity to prevent electrical hazards.
- Do not attempt to disassemble or repair the unit yourself. Refer to qualified service personnel.

3. SETUP

3.1 Unboxing and Package Contents

Upon opening the package, verify that all components are present:

- INKBIRD IIC-600-WIFI Smart Sprinkler Controller Unit

- Power Adapter (24V AC)
- Mounting Hardware (screws, wall anchors)
- Small Screwdriver (for wiring, if needed)
- Wire Connectors
- User Manual (this document)



Figure 2: Package contents of the INKBIRD IIC-600-WIFI Smart Sprinkler Controller.

3.2 Mounting the Controller

Select a suitable indoor location for mounting, ideally near your existing sprinkler wiring and a power outlet. Use the provided mounting hardware to securely attach the controller to the wall.

1. Remove the magnetic front cover of the controller to access the mounting holes.
2. Mark the desired drilling locations on the wall using the controller as a template.
3. Drill pilot holes and insert wall anchors if necessary.
4. Secure the controller to the wall using the provided screws.

3.3 Wiring Connections

The INKBIRD IIC-600-WIFI controller features push-in terminals for easy wiring. Before connecting, ensure the power to your existing sprinkler system is turned off.

1. Identify the common wire (usually labeled 'C' or 'COM') from your existing sprinkler system and connect it to the 'CM' terminal on the INKBIRD controller.
2. Connect each zone wire (labeled 1, 2, 3, etc.) from your sprinkler valves to the corresponding numbered terminals (1, 2, 3, etc.) on the INKBIRD controller.
3. If you have a rain sensor, connect its wires to the 'S1' and 'S2' terminals.
4. Connect the 24V AC power adapter to the '24VAC' input on the controller.
5. Once all wires are securely connected, replace the wiring cover and the magnetic front cover.

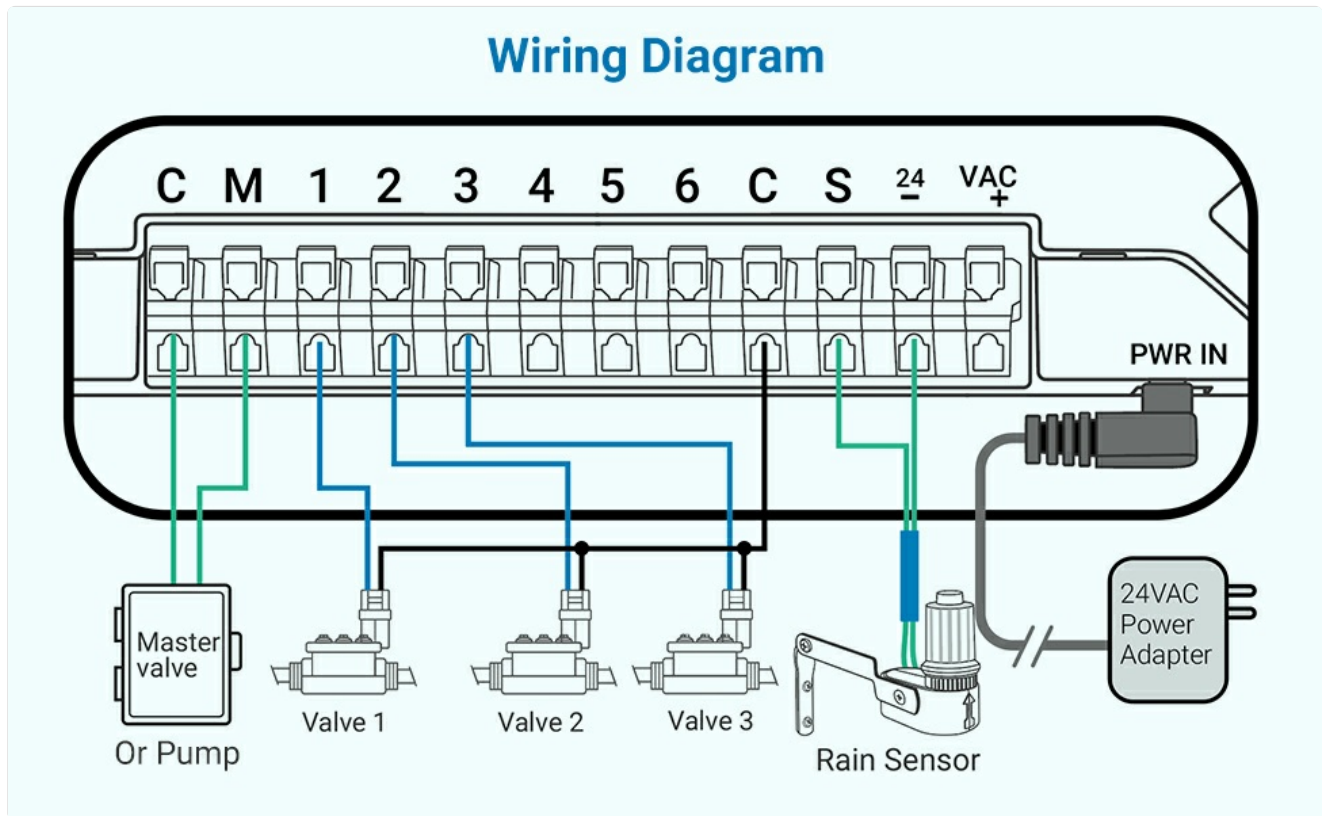


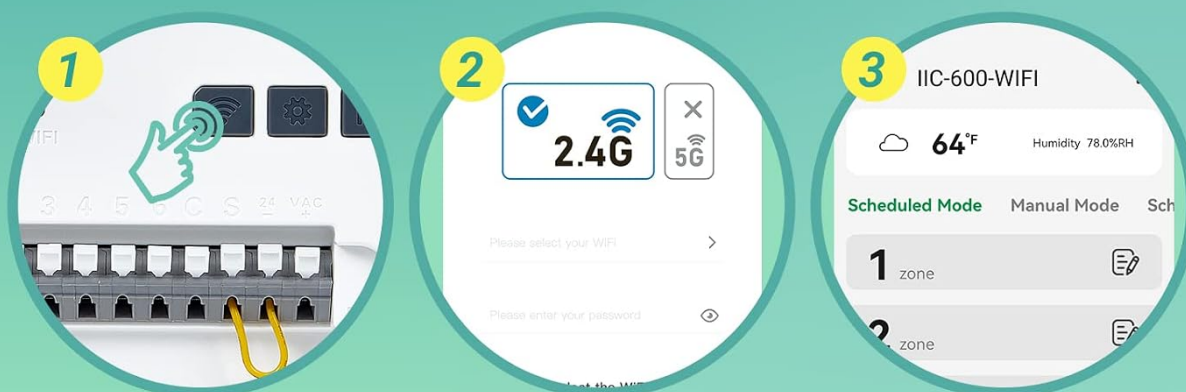
Figure 3: Wiring diagram for the INKBIRD IIC-600-WIFI controller.

3.4 App Installation and Wi-Fi Connection

The INKBIRD app is essential for remote control and advanced features. Ensure your router is configured to support a 2.4GHz WiFi band, as the controller is compatible with this frequency.

1. Download the **INKBIRD** app from the App Store (iOS) or Google Play Store (Android).
2. Open the app and create an account or log in.
3. Click the "+" icon in the upper right corner of the app to add a new device.
4. Select the IIC-600-WIFI controller from the device list.
5. Follow the on-screen instructions to connect the controller to your 2.4GHz Wi-Fi network. You may need to confirm the Wi-Fi icon status on the controller and enter your Wi-Fi password in the app.
6. Once successfully paired, the device will appear in your app, ready for configuration.

Easy to use



1 Download the INKBIRD app, click "+" in the upper right corner to add IIC-600-WIFI, and follow the APP operation instructions to connect the device.

2 Confirm the WiFi icon status and click the relevant icon on the app. Select 2.4GHz WiFi and enter the WiFi password.

3 Pairing is successful. Remote control via APP.

Figure 4: Easy steps for connecting the controller to the INKBIRD app.

4. OPERATING THE CONTROLLER

4.1 Manual Control (On-Device)

The controller features a display and buttons for basic manual operation, though app control is recommended for full functionality.



Figure 5: Manual control interface on the INKBIRD IIC-600-WIFI controller.

4.2 App Control and Scheduling

The INKBIRD app provides comprehensive control over your sprinkler system, allowing for detailed scheduling and real-time monitoring.

INKBIRD APP

Remotely monitors and optimizes your watering via **2.4GHz** Wi-Fi networks.

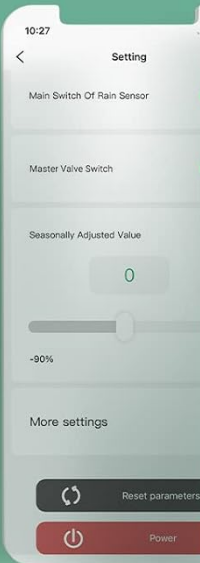
Monitoring
Interface

Schedules &
History

Seasonal
Adjustment

Manual
Watering

Set
Schedules



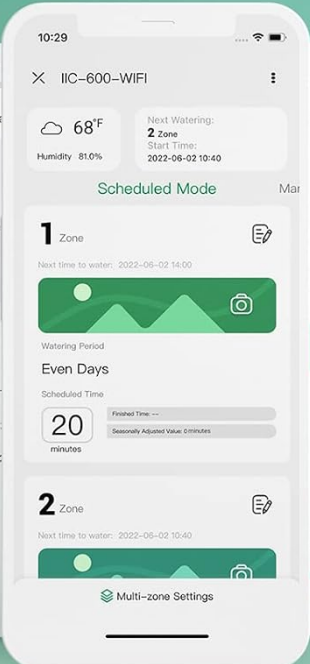
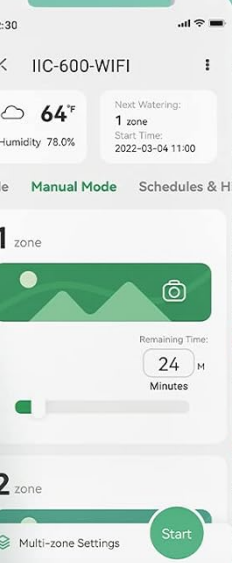
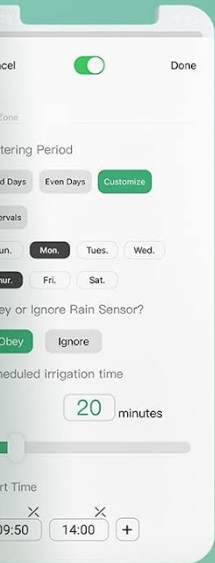




Figure 6: Overview of the INKBIRD mobile application interface.

4.2.1 Setting Watering Schedules

You can program individual watering schedules for each of the 6 zones.

- **Cyclic Options:** Choose how often watering occurs:
 - Days of the week (e.g., Mon, Wed, Fri)
 - Intervals (e.g., every 2 days)
 - Odd days
 - Even days
- **Start Times:** Each zone supports up to 6 independent start times per day.
- **Duration:** Set the watering duration for each start time.

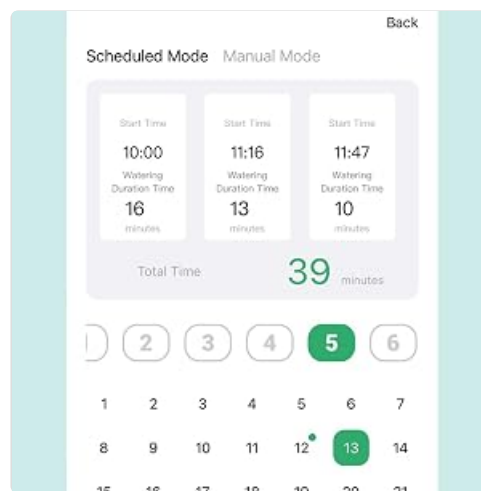


Figure 7: App interface for setting scheduled watering times.

4.2.2 Manual Watering

Initiate watering instantly for specific zones or multiple zones as needed.

- Navigate to the "Manual Mode" in the app.
- Select the desired zone(s) and set the manual watering duration.
- Tap "Start" to begin immediate watering.



Figure 8: App interface for manual watering.

4.2.3 Rain Sensor and Seasonal Adjustment

These features help optimize water usage and adapt to changing weather conditions.

- **Rain Sensor:** If a rain sensor is connected, the controller can automatically skip scheduled watering on rainy days. You can choose to "Obey" or "Ignore" the rain sensor in the app settings for each zone.
- **Seasonal Adjustment:** Manually adjust the watering time for all zones simultaneously to account for seasonal changes (e.g., reduce watering in cooler months, increase in hotter months).



Figure 9: App settings for rain sensor and seasonal adjustment.

4.2.4 Monitoring and History

The app provides detailed records of your watering activities.

- View total watering time and number of watering cycles for the last 3 months.
- Access history for the last 6 months to track water usage trends.

Watering schedule in 3 moths

History for last 6 moths

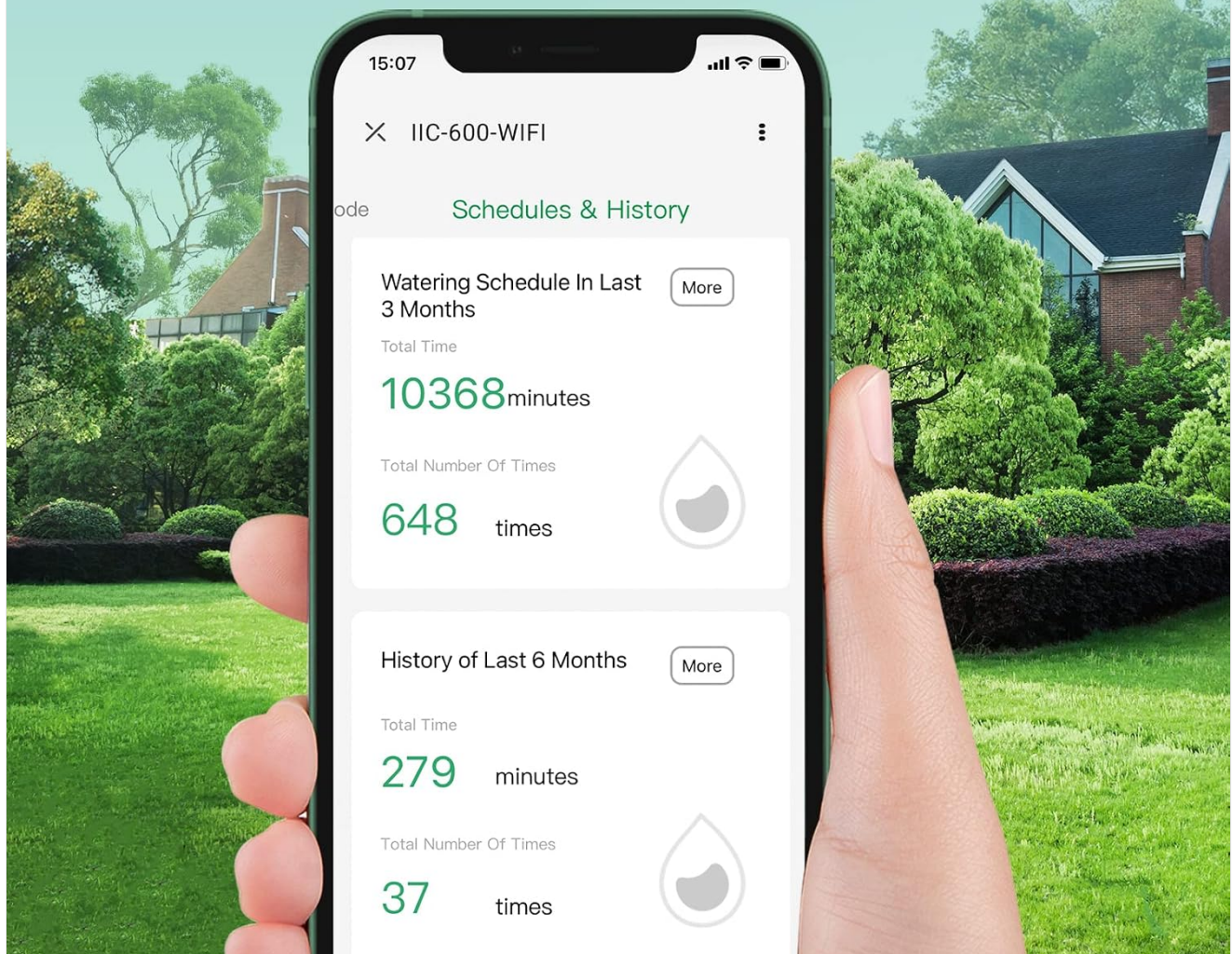


Figure 10: Watering schedule and history in the INKBIRD app.

4.3 Official Product Video

Watch this short video for a quick overview of the Smart 6 Zone Sprinkler Controller and its key features.

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Video 1: A 27-second overview of the Smart 6 Zone Sprinkler Controller, highlighting its main functionalities and design.

5. MAINTENANCE

- **Cleaning:** Wipe the controller's exterior with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- **Winterization:** In regions with freezing temperatures, it is recommended to disconnect the controller and drain your irrigation system to prevent damage from freezing water. Store the controller indoors during winter months.

- **Firmware Updates:** Periodically check the INKBIRD app for available firmware updates to ensure optimal performance and access to new features.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Controller not connecting to Wi-Fi.	Incorrect Wi-Fi band (5GHz instead of 2.4GHz), weak signal, incorrect password.	Ensure your router's 2.4GHz band is enabled and distinct. Move controller closer to router. Re-enter Wi-Fi password carefully.
Sprinklers not watering.	Power issue, incorrect wiring, rain sensor activated, schedule not set correctly, master valve off.	Check power supply. Verify wiring connections. Check rain sensor status in app. Review watering schedules. Ensure master valve is open.
App shows controller offline.	Wi-Fi disconnected, power outage, internet issue.	Check Wi-Fi router and internet connection. Verify controller has power. Reconnect controller to Wi-Fi via app if necessary.
Overwatering occurring.	Rain sensor ignored/faulty, incorrect schedule duration.	Ensure rain sensor is enabled and functioning. Adjust watering durations in the app. Utilize seasonal adjustment.

7. SPECIFICATIONS

- **Model:** IIC-600-WIFI
- **Brand:** Inkbird
- **Zones:** 6 Stations
- **Connectivity:** 2.4G WiFi
- **Voltage:** 24 Volts AC
- **Display Type:** LCD or LED
- **Operating Temperature:** 6E+1 Degrees Celsius
- **Memory:** Non-volatile
- **Item Weight:** 2.03 pounds
- **Package Dimensions:** 7.36 x 5.67 x 5 inches
- **Color:** Gray, White

8. WARRANTY AND SUPPORT

Inkbird products are designed for reliability and performance. For specific warranty details, please refer to the warranty card included with your product or visit the official Inkbird website. If you encounter any issues or require technical assistance, please contact Inkbird customer support through their official channels. Based on customer feedback, Inkbird is known for responsive customer service and standing behind their products.

- **Inkbird Store:** [Visit the Official Inkbird Store on Amazon](#)