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› Aqualin WiFi Professional Automatic Irrigation Computer System (11 Station) YL10475 User Manual

Aqualin YL10475

Aqualin WiFi Professional Automatic Irrigation Computer System (11 Station) - User Manual

Model: YL10475

1. INTRODUCTION

This manual provides comprehensive instructions for the setup, operation, and maintenance of the Aqualin WiFi Professional Automatic Irrigation Computer System (11 Station), Model YL10475. This professional-grade controller is designed for managing irrigation systems in large areas such as extensive gardens, farmlands, courtyards, and golf courses. It offers precise and flexible irrigation scheduling capabilities, controllable via WiFi and a dedicated mobile application.

The system allows for up to six distinct irrigation programs, each with customizable start times, run durations, and frequencies. Key features include manual irrigation, a rain sensor delay function, and various scheduling modes to optimize water usage and plant health.

2. SETUP AND INSTALLATION

2.1 Package Contents

- Aqualin 11-Station WiFi Irrigation Controller
- EU Standard Power Transformer
- Mounting Screws and Wall Anchors
- User Manual (this document)



Figure 2.1: Package contents including the controller, power adapter, and mounting accessories.

2.2 Physical Installation

The controller should be mounted in a location protected from direct weather exposure, yet accessible for wiring and operation. Ensure the mounting surface is stable.

1. **Mounting:** Use the provided screws and anchors to securely fasten the controller to a wall or suitable surface.
2. **Wiring Solenoid Valves:** Connect the wires from your solenoid valves to the corresponding station terminals on the controller. The controller supports up to 11 stations. Ensure proper common wire connection. *Note: Additional solenoid valves must be purchased separately.*
3. **Rain Sensor Connection:** If using a rain sensor, connect it to the designated rain sensor terminals. This system supports normally closed (NC) rain sensors.
4. **Power Connection:** Plug the EU standard power transformer into a suitable power outlet and connect it to the controller's power input.

11 Site-WIFI Multifunctional Irrigation Controller

WIFI APP remote control
Enjoy your smart life



Figure 2.2: Controller mounted with wiring connections visible for solenoid valves and power.

2.3 Initial Power-On and App Connection

Once powered, the controller's LCD screen will illuminate. To utilize the WiFi features, download the dedicated mobile application from your device's app store.

1. Download and install the Aqualin irrigation app on your smartphone.
2. Create an account or log in.
3. Follow the in-app instructions to add your new irrigation controller. This typically involves putting the controller into pairing mode and connecting it to your home or garden WiFi network.



Figure 2.3: The irrigation controller and its corresponding mobile application for remote control.

3. OPERATION

3.1 Programming Irrigation Schedules

The controller supports up to six independent irrigation programs (P1-P6). Each program can have different start times, run durations, and watering frequencies.

1. **Select Program:** In the mobile app, navigate to the 'Program' section and select the program you wish to configure (P1-P6).
2. **Set Watering Days:** Choose one of three frequency modes:
 - **Weekly Mode:** Select specific days of the week (e.g., Monday, Wednesday, Friday).
 - **Interval Mode:** Water every 1 to 15 days.
 - **Odd/Even Day Mode:** Water on odd or even calendar days.
3. **Set Start Times:** For each program, you can set multiple start times (up to 6). For example, 06:00, 09:00, 12:00, etc.
4. **Set Run Times:** Specify the duration for each station within the selected program. Run times can range from 1 minute to 12 hours and 59 minutes.
5. **Assign Stations:** Select which stations (valves) are active for the current program and their individual run times.

11 STATION IRRIGATION PROGRAM MODE

6 irrigation programs, up to 36 start time

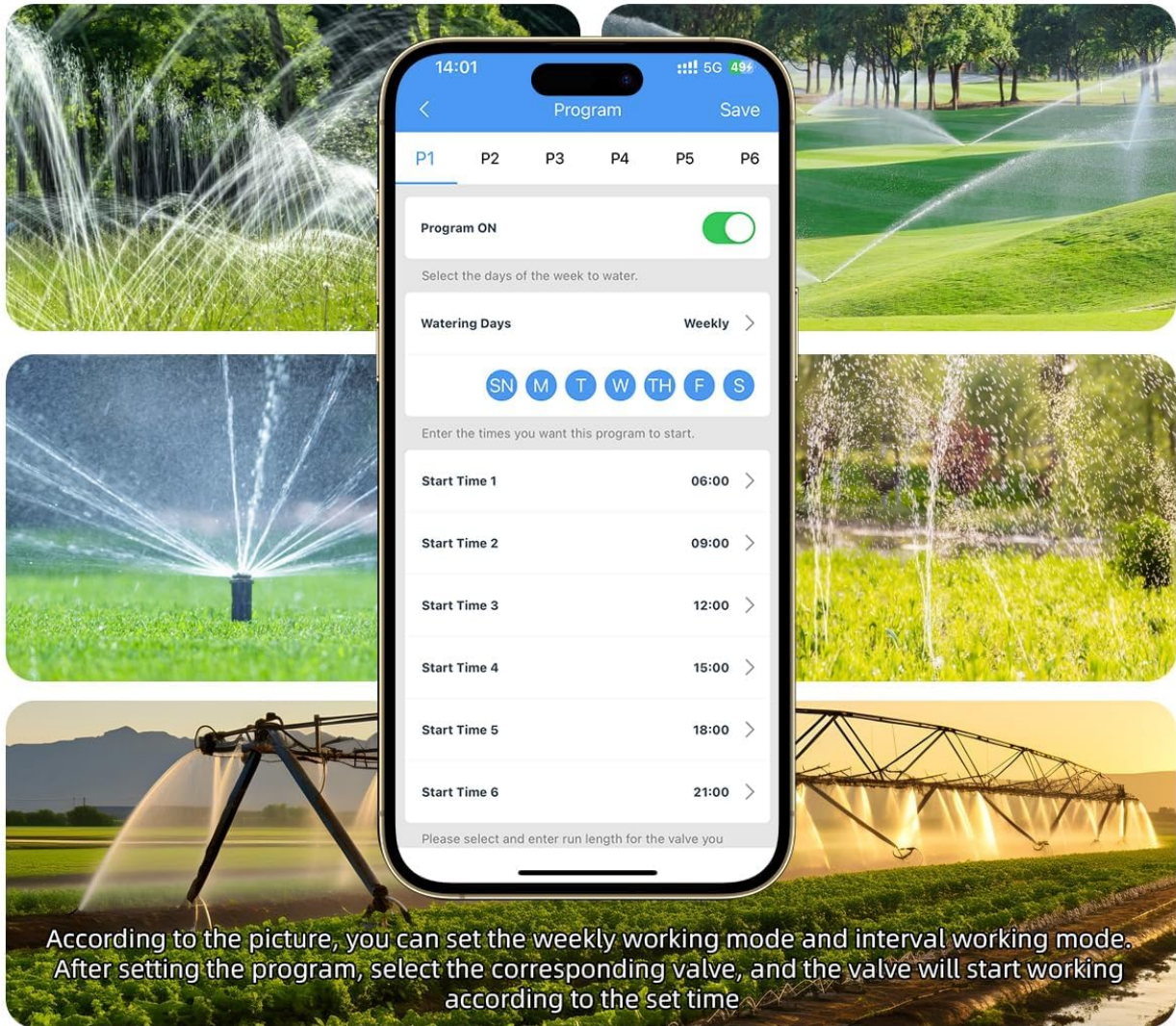


Figure 3.1: Mobile application interface for setting watering schedules.



Figure 3.2: Detailed program settings within the app, illustrating weekly watering days and multiple start times.

3.2 Manual Irrigation

The controller allows for manual operation of individual stations or all stations simultaneously, overriding the programmed schedule temporarily.

- From the controller's dial or the mobile app, select the 'Manual' mode.
- Choose the specific station(s) you wish to run.
- Set the desired run time for the manual cycle. The maximum manual run time for each station is 12 hours and 59 minutes.

3.3 Rain Sensor Functionality and Delay

The system can be connected to a normally closed (NC) rain sensor to automatically suspend irrigation during rainfall, conserving water.

- When a connected rain sensor detects sufficient rainfall, it will interrupt scheduled irrigation cycles.
- Additionally, a manual rain delay function is available, allowing you to pause irrigation for 0, 24, 48, or 72 hours, even without a physical rain sensor. This can be set via the controller or the mobile app.



Figure 3.3: Controller and app interface showing options for rain sensor delay.

3.4 Water Budget and Seasonal Adjustment

The controller includes a water budget feature, also known as seasonal adjustment, which allows you to easily increase or decrease watering times for all active programs by a percentage. This is useful for adapting to changing seasonal needs without reprogramming each station individually.

- Access the 'Water Budget' or 'Seasonal Adjust' setting in the mobile app.
- Adjust the percentage to modify all program run times. For example, setting it to 50% will halve all watering durations, while 150% will increase them by 50%.



Figure 3.4: Visual representation of water budget and seasonal adjustment capabilities.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your irrigation controller.

- **Cleaning:** Periodically wipe the exterior of the controller with a soft, damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Inspection:** Annually inspect all wiring connections for corrosion or damage. Ensure the power transformer is securely connected.
- **Winterization:** In regions with freezing temperatures, disconnect the controller and drain all water from the irrigation system to prevent freeze damage. Store the controller in a dry, protected area.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your Aqualin irrigation controller.

Problem	Possible Cause	Solution
Controller display is blank	No power supply	Check if the power transformer is securely plugged into both the outlet and the controller. Verify the power outlet is functional.
Stations not watering	<ul style="list-style-type: none"> • Program not set or active • Rain sensor activated • Solenoid valve issue • Water supply off 	<ul style="list-style-type: none"> • Verify program settings and ensure it's enabled. • Check rain sensor status; bypass if necessary for testing. • Inspect solenoid valve wiring and function. • Ensure main water supply to the irrigation system is open.

Problem	Possible Cause	Solution
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App cannot connect to controller	<ul style="list-style-type: none"> • WiFi signal weak or disconnected • Incorrect pairing process 	<ul style="list-style-type: none"> • Ensure the controller is within range of your WiFi router. • Restart the controller and attempt the app pairing process again. • Verify correct WiFi password entry.
Manual watering not working	Station not selected or run time not set	Ensure you have selected the desired station(s) and set a run time for the manual cycle.

6. SPECIFICATIONS

Feature	Detail
Model Number	YL10475
Brand	Aqualin
Number of Stations	11
Connectivity	WiFi
Power Source	AC/DC Transformer
Material	ABS
Product Dimensions	23 x 15 x 8 cm
Item Weight	1.5 Kilograms
Display Type	LCD
Irrigation Duration	1 min - 12 h 59 min
Irrigation Frequency	Weekly, 1-15 days, Odd/Even days
Rain Delay Function	0/24/48/72 hours
Rain Sensor Compatibility	Normally Closed (NC) type

7. WARRANTY AND SUPPORT

7.1 Warranty Information

The Aqualin WiFi Professional Automatic Irrigation Computer System (Model YL10475) comes with a 2-year availability period for EU spare parts, ensuring long-term support for your product.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Aqualin customer support through the retailer where the product was purchased or visit the official Aqualin website for contact information.