

## Orbit 27954

# Orbit 27954 Pocket Star 4-Station Plus Indoor Sprinkler Controller

User Manual

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## 1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of your Orbit 27954 Pocket Star 4-Station Plus Indoor Sprinkler Controller. This controller is designed to manage residential 24-volt sprinkler systems, offering dual programming capabilities and a rain delay feature.



Image 1.1: The Orbit 27954 Pocket Star 4-Station Plus Indoor Sprinkler Controller. This image displays the front panel of the controller, featuring its digital display and control buttons.

## 2. SAFETY INFORMATION

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Please read all instructions carefully before installation and operation. Failure to follow these instructions may result in property damage or personal injury.

- This controller is designed for indoor use only. Do not install outdoors or in areas exposed to water.
- Ensure the power supply is disconnected before performing any wiring or maintenance.
- All electrical wiring should comply with local codes and regulations. If you are unsure, consult a qualified electrician.
- Do not attempt to repair the unit yourself. Refer all servicing to qualified personnel.

## 3. SETUP

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### 3.1 Unpacking

Carefully remove the controller from its packaging. Verify that all components are present. Retain packaging for future use or disposal.

### 3.2 Mounting the Controller

1. Choose a suitable indoor location near a standard 120V AC outlet and away from direct sunlight or extreme temperatures.
2. Use the provided mounting template (if applicable) or mark the desired screw locations on the wall.
3. Install mounting screws into the wall, leaving the screw heads slightly extended.
4. Hang the controller onto the screws using the keyhole slots on the back of the unit.
5. Secure the controller by tightening the screws.

### 3.3 Wiring

**Important:** Disconnect power before wiring.

1. **Power Connection:** Plug the controller's power cord into a standard 120V AC outlet.
2. **Valve Wiring:** Connect one wire from each sprinkler valve to a numbered terminal (1, 2, 3, 4) on the controller. Connect the common wire from all valves to the terminal labeled 'C' (Common).
3. **Sensor Wiring (Optional):** If using a rain sensor, connect its wires to the designated sensor terminals. Refer to your sensor's manual for specific wiring instructions.

### 3.4 Initial Power-Up

Once all wiring is complete and secure, connect the power cord to the electrical outlet. The controller display should illuminate, indicating it is powered on.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Understanding the Display and Buttons

The controller features a digital display and several buttons for navigation and programming. Familiarize yourself with the 'Program', 'Set', 'Arrow' (up/down), and 'Rain Delay' buttons.

### 4.2 Setting Current Time and Date

1. Press the 'Set' button repeatedly until 'Set Time' appears on the display.
2. Use the 'Arrow' buttons to adjust the hour, then press 'Set' to move to minutes.

3. Repeat for minutes, AM/PM, year, month, and day.

## 4.3 Programming Watering Schedules

The controller supports dual programs (A and B) for flexible scheduling.

1. **Select Program:** Press the 'Program' button to select Program A or B.
2. **Set Start Times:** Press 'Set' until 'Start Time' appears. Use 'Arrow' buttons to set the desired start time for the first cycle. The controller supports multiple start times per program.
3. **Set Run Times:** Press 'Set' until 'Run Time' appears. Use 'Arrow' buttons to set the duration (in minutes) for each station (1-4).
4. **Set Watering Days:** Press 'Set' until 'Watering Days' appears. Use 'Arrow' buttons to select specific days of the week, odd/even days, or interval watering.

## 4.4 Manual Operation

To manually water a station or all stations:

1. Press the 'Manual' button (if available, or follow specific manual run instructions in the display menu).
2. Select the desired station or 'All Stations'.
3. Set the run time using the 'Arrow' buttons.
4. The selected station(s) will begin watering immediately.

## 4.5 Rain Delay Function

The rain delay feature allows you to pause watering for a set period without losing your programmed schedule.

1. Press the 'Rain Delay' button.
2. Use the 'Arrow' buttons to select the delay duration (e.g., 24, 48, or 72 hours).
3. The controller will pause watering for the selected period and resume the schedule automatically afterward.

# 5. MAINTENANCE

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## 5.1 Cleaning

Wipe the controller's exterior with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the display or casing.

## 5.2 Seasonal Considerations

As an indoor controller, the unit is not directly exposed to outdoor elements. However, ensure the indoor environment remains within recommended operating temperatures to prolong its lifespan.

# 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Controller display is blank.	No power.	Check power outlet, ensure power cord is securely plugged in. Verify circuit breaker.
Sprinklers do not turn on.	Incorrect programming, wiring issue, or rain sensor activated.	Verify watering schedule. Check valve wiring connections. Ensure rain sensor is not active or bypassed.

Problem	Possible Cause	Solution
Only some sprinklers turn on.	Faulty valve, wiring issue to specific station.	Check wiring for the non-working station. Test the valve manually.
Watering occurs at incorrect times.	Incorrect time/date setting or program schedule.	Verify current time and date. Review and adjust program start times and watering days.

## 7. SPECIFICATIONS

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- **Model:** Orbit 27954 Pocket Star 4-Station Plus Indoor Controller
- **Brand:** Orbit
- **Part Number:** 27954
- **Number of Stations:** 4
- **Voltage:** 24 Volts (AC)
- **Human Interface Input:** Buttons
- **Batteries Required:** No
- **Installation:** Indoor
- **Features:** Dual program, Rain delay
- **Package Dimensions:** 21.84 x 13.46 x 6.6 cm
- **Weight:** 226.8 g

## 8. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the official Orbit website or contact their customer service department. Keep your purchase receipt as proof of purchase.