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Galcon 61512 DC-1S

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1. INTRODUCTION

The Galcon 61512 DC-1S is a robust, battery-operated irrigation and propagation controller designed for reliable water management in isolated sites without electrical power. This single-station unit offers flexible programming for various watering needs, from short propagation cycles to extended irrigation schedules. Its durable, waterproof construction ensures performance in harsh environments, including installation inside valve boxes. This manual provides essential information for the proper installation, setup, operation, and maintenance of your controller.



Image: The Galcon 61512 DC-1S 1-Station Battery Operated Irrigation and Propagation Controller, showing its compact design and user interface.

2. SAFETY INFORMATION

- Read all instructions carefully before installation and operation.
- This product is designed for use only in the USA and Canada.
- Use only a 9V alkaline battery. Do not use rechargeable batteries or mix old and new batteries.
- Ensure the battery compartment is sealed properly to maintain waterproofing.
- Do not immerse the controller in water unless it is specifically designed for such installation (e.g., inside a valve box with proper sealing).
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- Galcon 61512 DC-1S Irrigation Controller
- Universal Mounting Bracket
- Wall Mounting Bracket
- Owner's Manual (this document)

4. PRODUCT FEATURES

The Galcon 61512 DC-1S controller offers the following key features:

- **Battery Operated:** Requires a single 9V battery for power throughout the season.
- **Versatile Operation:** Suitable for irrigation, misting, and propagation applications.
- **Flexible Programming:** Irrigation duration from 1 second up to 12 hours.
- **Cycle Frequency:** Programmable cycles from every minute to every 30 days.
- **Multiple Start Times:** Up to 4 start times per day for daily or weekly programming.
- **Programmable Irrigation Window:** Limit watering to desirable times of day.
- **User-Friendly Interface:** Easy-to-program LCD screen with four large buttons.
- **Waterproof Design:** Constructed for durability in harsh outdoor environments, including valve box installation.
- **Rain Sensor Connection:** Compatible with Normally Open (NO) rain sensors for water savings.
- **Mounting Options:** Includes universal bracket for solenoid mounting and a wall-mounted plate.

5. INSTALLATION

5.1 Battery Installation

1. Locate the battery compartment on the back of the controller.
2. Open the compartment cover carefully.
3. Insert one new 9V alkaline battery, ensuring correct polarity.
4. Securely close the battery compartment cover to maintain the waterproof seal.

5.2 Mounting the Controller

The controller offers two mounting options:

- **Solenoid Mounting:** Use the provided universal mounting bracket to attach the controller directly to a valve's solenoid. Ensure a secure fit.
- **Wall Mounting:** Use the wall-mounted plate to secure the controller to a flat surface. Use appropriate screws (not included) for the mounting surface.

Ensure the controller is mounted in a location that allows for easy access to the display and buttons, and where it is protected from direct impact.

5.3 Connecting a Rain Sensor (Optional)

The controller includes a sensor connection wire for a Normally Open (NO) rain sensor. Connecting a rain sensor can help conserve water by pausing irrigation during rainfall.

1. Locate the sensor connection wire on the controller.
2. Connect the two wires from your NO rain sensor to the controller's sensor connection wire.
3. Refer to your rain sensor's manual for specific installation and wiring instructions.

6. SETUP AND PROGRAMMING

The Galcon 61512 DC-1S features an intuitive LCD screen and four large buttons for programming. The programming steps generally involve setting the current time, start times, irrigation duration, and frequency.

6.1 Setting Current Time and Day

Follow the on-screen prompts to set the current time (hour and minute) and the current day of the week. This ensures that your irrigation schedules run at the correct times.

6.2 Programming Start Times

The controller allows for up to four independent start times per day. Navigate through the programming menu to set your desired start times for irrigation cycles.

6.3 Setting Irrigation Duration

Specify the length of each watering cycle. The duration can be set from as short as 1 second to as long as 12 hours, accommodating both propagation and standard irrigation needs.

6.4 Defining Cycle Frequency

Choose how often the irrigation program repeats. Options include daily, weekly, or custom intervals up to every 30 days. For propagation, cycles can be set to run every minute.

6.5 Setting Irrigation Window (Optional)

To optimize water usage and comply with local regulations, you can define a specific window of time during which irrigation is permitted. The controller will only run programs within this specified window.

7. OPERATING THE CONTROLLER

Once programmed, the Galcon 61512 DC-1S operates automatically according to your settings. The LCD screen displays current status and upcoming irrigation events.

- **Manual Operation:** Most controllers offer a manual override function to start or stop irrigation immediately, independent of the programmed schedule. Consult the on-screen menu for this option.

- **Program Review:** You can review your programmed settings at any time using the navigation buttons.
- **Rain Delay:** If a rain sensor is connected, the controller will automatically pause irrigation during rainfall. Some models also offer a manual rain delay feature.

8. MAINTENANCE

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

- **Battery Replacement:** Replace the 9V battery at the beginning of each irrigation season or when the low battery indicator appears on the LCD screen. Always use a new, high-quality alkaline battery.
- **Cleaning:** Periodically clean the exterior of the controller with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Winterization:** In regions with freezing temperatures, remove the controller from the valve and store it indoors during winter to prevent damage from freezing water. Remove the battery before storage.
- **Inspect Connections:** Periodically check all connections, especially the rain sensor wire, for corrosion or damage.

9. TROUBLESHOOTING

If you encounter issues with your Galcon 61512 DC-1S controller, refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|-------------------------------------|--|--|
| Controller display is blank or dim. | Dead or low battery. | Replace the 9V battery with a new alkaline battery. |
| Irrigation does not start. | Incorrect programming; Rain sensor activated; Valve issue. | Verify program settings (start times, duration, frequency). Check if the rain sensor is wet or faulty. Manually test the valve. |
| Irrigation runs continuously. | Stuck valve; Programming error. | Check the valve for debris or malfunction. Review programming for excessively long durations or incorrect frequency. |
| Water leaks from controller. | Improperly sealed battery compartment; Damaged casing. | Ensure battery compartment is securely closed. If casing is damaged, contact support. |

10. SPECIFICATIONS

- **Brand:** Galcon
- **Model:** 61512 DC-1S (Part Number: GAJBS0002P0)
- **Power Source:** 9 Volts (DC) - 1 x 9V alkaline battery
- **Display Type:** LCD
- **Item Weight:** 14.08 ounces

- **Irrigation Duration:** 1 second to 12 hours
- **Cycle Frequency:** Every minute to every 30 days
- **Start Times:** Up to 4 per day
- **Rain Sensor Input:** Normally Open (NO) type
- **Operating Environment:** Outdoor, waterproof construction
- **Designed For:** USA and Canada markets

11. WARRANTY AND SUPPORT

The Galcon 61512 DC-1S controller is covered by a **3-year manufacturer warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical assistance, or further support, please contact Galcon USA, LTD customer service. Keep your proof of purchase for warranty validation.

Manufacturer: Galcon USA, LTD