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› **Galcon 4-Station Expansion Module GAEC14203P0 AC-24 Modular Irrigation Controller User Manual**

Galcon GAEC14203P0

Galcon 4-Station Expansion Module GAEC14203P0 User Manual

For AC-24 Modular Irrigation Controller

1. INTRODUCTION

This manual provides essential instructions for the installation, operation, and maintenance of the Galcon 4-Station Expansion Module (Model GAEC14203P0). This module is designed to expand the zone capacity of your Galcon AC-24 Modular Irrigation Controller (Model GAECS900208). Please read this manual thoroughly before installation and use to ensure proper function and longevity of the product.

2. PRODUCT OVERVIEW

The Galcon 4-Station Expansion Module adds four additional watering zones to your compatible Galcon AC-24 Modular Irrigation Controller. This allows for increased flexibility in managing larger irrigation systems or adding new zones as your landscape needs evolve. Up to four such modules can be installed in the base AC-24 unit, providing a total of up to 24 zones (8 base zones + 4 modules x 4 zones/module).

Key Features:

- Adds four additional watering zones.
- Compatible exclusively with Galcon AC-24 Modular Irrigation Controller (Model GAECS900208).
- Allows for expansion up to a total of 24 zones with multiple modules.
- Designed for use in the USA and Canada.

Figure 1: Galcon 4-Station Expansion Module. This image displays the grey-colored module, approximately 2.16 x 2.36 x 3.35 inches in size, with connectors visible for integration into the main controller unit.

3. SETUP AND INSTALLATION

Follow these steps carefully to install your 4-Station Expansion Module into the Galcon AC-24 Modular

Irrigation Controller.

Pre-installation:

1. **Verify Compatibility:** Ensure your main controller is the Galcon AC-24 Modular Irrigation Controller (Model GAECS900208). This expansion module is not compatible with other models.
2. **Power Off:** Disconnect the main AC-24 controller from its power source before proceeding with any installation. This prevents electrical shock and damage to the unit.
3. **Open Controller:** Carefully open the housing of the AC-24 controller to access the internal module slots. Refer to your AC-24 controller's manual for specific instructions on opening its casing.

Installation Steps:

4. **Locate Expansion Slot:** Identify an available expansion slot within the AC-24 controller. These slots are typically designed for easy insertion of expansion modules.
5. **Insert Module:** Align the 4-Station Expansion Module with the chosen slot. Gently but firmly push the module into the slot until it is securely seated. Ensure all connectors are properly engaged. Do not force the module; if it does not slide in easily, re-check alignment.
6. **Close Controller:** Once the module is securely installed, carefully close the housing of the AC-24 controller. Ensure all latches or screws are fastened as per the main controller's instructions.

Post-installation:

7. **Restore Power:** Reconnect the AC-24 controller to its power source.
8. **Verify Recognition:** Power on the AC-24 controller. The controller should automatically detect the newly installed expansion module and display the additional zones. Refer to your AC-24 controller's display and programming instructions to confirm the new zones are available for scheduling.

4. OPERATING INSTRUCTIONS

The 4-Station Expansion Module integrates seamlessly with your Galcon AC-24 Modular Irrigation Controller. Once installed and recognized, the additional four zones will become available for programming through the main controller's interface.

Programming New Zones:

- Refer to the user manual of your Galcon AC-24 Modular Irrigation Controller (Model GAECS900208) for detailed instructions on how to program individual watering zones, set start times, run durations, and watering days.
- The newly added zones will function identically to the original zones of the AC-24 controller.
- Connect your irrigation valves to the corresponding terminals on the expansion module, ensuring correct wiring as per the AC-24 controller's wiring diagram.

5. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your expansion module.

- **Keep Dry:** Ensure the main AC-24 controller housing, where the module is installed, remains sealed and protected from moisture and direct water exposure.
- **Inspect Connections:** Periodically inspect the module's connection to the main controller for any signs

of corrosion or loose contact. Ensure the module is firmly seated.

- **Cleaning:** If necessary, gently clean the module and its connectors with a soft, dry cloth. Do not use harsh chemicals or abrasive materials.

- **Environmental Protection:** While the AC-24 controller is designed for outdoor use, ensure it is installed in a location that minimizes exposure to extreme temperatures, direct sunlight, and heavy precipitation, which can affect electronic components.

6. TROUBLESHOOTING

If you encounter issues with your 4-Station Expansion Module, consider the following troubleshooting steps:

Module Not Recognized:

- **Check Power:** Ensure the main AC-24 controller is powered on.

- **Reseat Module:** Disconnect power from the AC-24 controller, open the housing, and carefully remove and re-insert the expansion module to ensure it is fully seated in its slot. Restore power and check again.

- **Compatibility:** Double-check that your main controller is indeed the Galcon AC-24 (Model GAECS900208).

- **Inspect for Damage:** Visually inspect the module and the controller's expansion slot for any signs of physical damage or bent pins.

New Zones Not Activating:

- **Programming:** Verify that the new zones have been correctly programmed in the AC-24 controller with appropriate start times and run durations.

- **Wiring:** Ensure the irrigation valves for the new zones are correctly wired to the corresponding terminals on the expansion module. Check for loose or corroded connections.

- **Valve Functionality:** Test the irrigation valves directly to ensure they are operational.

General Issues:

- If the issue persists after performing these steps, consult the full user manual for your Galcon AC-24 Modular Irrigation Controller or contact Galcon customer support.

7. SPECIFICATIONS

Specification	Value
Model Number	GAEC14203P0
Brand	Galcon
Product Dimensions	2.16 x 2.36 x 3.35 inches
Item Weight	1.6 ounces (0.1 Pounds)
Color	Grey
Compatibility	Galcon AC-24 Modular Irrigation Controller (GAECS900208)

Display Type	LCD or LED (of main controller)
Manufacturer	Galcon USA, LTD
Global Trade Identification Number (GTIN)	07290003767762

8. WARRANTY INFORMATION

This Galcon 4-Station Expansion Module is covered by the manufacturer's standard warranty. Please refer to the warranty documentation provided with your original Galcon AC-24 Modular Irrigation Controller or visit the official Galcon website for detailed warranty terms and conditions. Keep your proof of purchase for warranty claims.

9. SUPPORT

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please contact Galcon customer support. You can typically find contact information on the official Galcon website or within the documentation provided with your main AC-24 controller.
Galcon Official Website: www.galcon.com