

Rain Bird NN105

Rain Bird 6-Station Expansion Module (Model NN105) Instruction Manual

For ESP-Me and ESP-SMTe Series Irrigation Controllers

[Introduction](#)

[Compatibility](#)

[Setup](#)

[Operating](#)

[Maintenance](#)

[Troubleshooting](#)

[Specifications](#)

[Warranty](#)

[& Support](#)

1. INTRODUCTION

This manual provides instructions for the installation and use of the Rain Bird 6-Station Expansion Module (Model NN105). This module is designed to increase the station capacity of compatible Rain Bird irrigation controllers, allowing for the management of additional watering zones.

Please read these instructions carefully before installation to ensure proper function and to avoid damage to the module or your irrigation controller.

2. COMPATIBILITY

The Rain Bird 6-Station Expansion Module (Model NN105) is compatible with the following Rain Bird residential modular controllers:

- Rain Bird ESP-Me Series Controllers
- Rain Bird ESP-SMTe Series Controllers

Important Note: This module is **not** compatible with older style Rain Bird ESP-Modular or ESP-SMT series controllers. Attempting to use this module with incompatible controllers may result in malfunction or damage.

3. SETUP AND INSTALLATION

The 6-station expansion module is designed for easy installation and is hot-swappable, meaning it can be installed without powering down the controller in most cases. However, for safety and optimal performance, it is recommended to follow these steps:

1. **Open the Controller Door:** Locate your Rain Bird ESP-Me or ESP-SMTe controller and open its

front door.

2. **Identify Available Slot:** Inside the controller, identify an empty expansion module slot. These slots are typically labeled.
3. **Insert the Module:** Align the 6-station expansion module with the chosen slot. Gently push the module firmly into the slot until it clicks into place. Ensure it is seated securely.
4. **Connect Zone Wires (Optional):** If you are immediately connecting new irrigation zone wires, strip approximately 1/2 inch (1.3 cm) of insulation from the end of each zone wire. Insert one wire into each terminal for the new stations (e.g., stations 5-10 if this is your first expansion module). Ensure a secure connection.
5. **Close the Controller Door:** Once the module is installed and any new wiring is complete, close the controller door.



Image 1: Rain Bird 6-Station Expansion Module (Model NN105) ready for installation. The module is designed to slide into an available slot within a compatible Rain Bird ESP-Me or ESP-SMTe controller.

The controller should automatically detect the new module and update its station count. You can verify this on the controller's display.

4. OPERATING WITH THE EXPANSION MODULE

Once the 6-station expansion module is installed, your Rain Bird ESP-Me or ESP-SMTe controller will

recognize the additional stations. These new stations function identically to the original stations on your controller.

- **Programming New Stations:** Refer to your main Rain Bird controller's instruction manual for detailed steps on how to program watering schedules, start times, and run times for the newly available stations.
- **Zone Assignment:** Ensure that each connected irrigation zone is correctly assigned to its corresponding station number in the controller's programming.
- **Testing:** After programming, perform a manual test of each new station to confirm that the connected valves operate correctly.

The expansion module itself does not require separate operation; it simply extends the capabilities of your existing controller.

5. MAINTENANCE

The Rain Bird 6-Station Expansion Module is designed for durability and requires minimal maintenance. To ensure its longevity and proper function:

- **Keep Dry:** Ensure the controller enclosure, where the module is housed, remains dry and free from moisture.
- **Cleanliness:** Periodically inspect the module and its connections for dust or debris. If necessary, gently clean with a soft, dry cloth. Do not use liquid cleaners.
- **Secure Connections:** Occasionally check that the module is securely seated in its slot and that all wiring connections are tight.
- **Environmental Protection:** If the controller is installed outdoors, ensure its enclosure is properly sealed to protect the internal components, including the expansion module, from weather elements.

6. TROUBLESHOOTING

If you encounter issues with your 6-station expansion module, consider the following troubleshooting steps:

- **Module Not Recognized:**
 - Ensure the module is fully seated in its slot. Remove and re-insert it firmly.
 - Verify that your controller is a compatible ESP-Me or ESP-SMTe series model.
 - Power cycle the controller (unplug and plug back in) to force it to re-detect modules.
- **New Stations Not Watering:**
 - Check the wiring connections for the new stations at both the module and the irrigation valve. Ensure they are secure and correct.
 - Verify that the new stations are properly programmed in the controller with appropriate start times and run times.
 - Test the individual valves manually to ensure they are functional.
- **Error Messages:**
 - Consult your main Rain Bird controller's instruction manual for specific error codes and their meanings.

If problems persist after attempting these steps, contact Rain Bird customer support or a qualified irrigation professional.

7. SPECIFICATIONS

Model Number	NN105
Product Dimensions	2 x 5 x 3 inches (5.08 x 12.7 x 7.62 cm)
Item Weight	2.39 ounces (67.75 grams)
Number of Stations	6 additional stations
Compatibility	Rain Bird ESP-Me and ESP-SMTe Series Controllers
Manufacturer	Rain Bird

8. WARRANTY & SUPPORT

8.1. Warranty Information

Rain Bird products are manufactured to high-quality standards. For specific warranty details regarding your 6-Station Expansion Module, please refer to the warranty information provided with your main Rain Bird controller or visit the official Rain Bird website. Warranty terms typically cover defects in materials and workmanship for a specified period from the date of purchase.

8.2. Customer Support

For technical assistance, troubleshooting, or further information about the Rain Bird 6-Station Expansion Module, please contact Rain Bird Customer Support:

- **Website:** Visit the official Rain Bird website for FAQs, support documents, and contact information.
- **Phone:** Refer to your main controller's manual or the Rain Bird website for regional customer service phone numbers.

When contacting support, please have your product model number (NN105) and controller model readily available.

9. PRODUCT VIDEOS

No official product videos from the seller were found for this specific module in the provided data. For general installation guides or product overviews related to Rain Bird controllers, please visit the official Rain Bird website or their authorized channels.