

Gavita HGC906120

Gavita Master Controller EL1 Gen 2 Instruction Manual

MODEL: HGC906120

Introduction

The Gavita Master Controller EL1 Gen 2 is an advanced system designed for centralized control of horticultural lighting fixtures. This second-generation controller offers enhanced functionality, including non-volatile memory, event logging, independent sunrise and sunset settings, and precise light cycle management. It is engineered to provide reliable and efficient control over your lighting environment.

What's Included

Carefully unpack the box and ensure all items listed below are present and in good condition. If any items are missing or damaged, please contact your retailer.



This image displays the Gavita Master Controller EL1 Gen 2 and all its accompanying accessories, including cables, sensors, and mounting hardware.

- Gavita Master Controller EL1 with Mounting Plate
- 1x RJ9 to RJ14 Controller Cable
- 1x Temperature Sensor with Cable (5m / 16ft)
- 120V Adapter
- Instruction Manual

- 1x Hood
- 2x Countersunk Screws
- 2x Plugs

Product Features

The Gavita Master Controller EL1 Gen 2 offers a range of features designed for precise and reliable lighting control:

This image illustrates the main features of the Gavita Master Controllers, emphasizing control capabilities and reliability.

- **Centralized Lighting Control:** Manage your e-series fixtures from a single point.
- **Non-Volatile Memory:** User settings are retained even during power outages.
- **Event Logging:** Records important events such as auto-dimming or shutdowns.
- **Independent Sunrise and Sunset Settings:** Customize gradual light transitions.
- **Independent Light Cycles:** Program specific on/off times for your lighting.
- **Auto-Dimming and Shut-off:** Automatically adjusts light output or shuts down fixtures if temperatures exceed set limits.
- **Capacity:** Controls up to 500 repeater bus fixtures or 40 single bus fixtures without a booster.



Detail of the controller's display, showcasing its advanced functionality and user interface.



The controller features a plug-and-play design for easy remote control setup.



An example setup showing multiple controllers for comprehensive lighting management.

Controls Overview

The Gavita Master Controller EL1 Gen 2 features an intuitive interface for easy operation. Refer to the diagram below for button functions:



Switch, Dim, and Boost Centrally

- Complete control over the light cycle and the output of your fixtures from one single point
- Automatically dim when your climate control is no longer able to maintain the correct temperature or shut down fixtures if maximum temperature is reached

Front panel of the Gavita Master Controller EL1 Gen 2, indicating button functions.

- A. Quick-key:** View output level.
- B. Down:** Navigate down in menu / decrease value. Press and hold to scroll / decrease smoothly.
- C. Enter:** Go to menu / confirm.
- D. Up:** Navigate up in menu / increase value. Press and hold to scroll / increase smoothly.
- E. Back:** Navigate back in menu / cancel / reset.

Connections

Proper connection of the power supply, temperature sensor, and lighting fixtures is crucial for optimal performance. Refer to the connection points below:

Compatibility



Compatible with Gavita® e-series fixtures

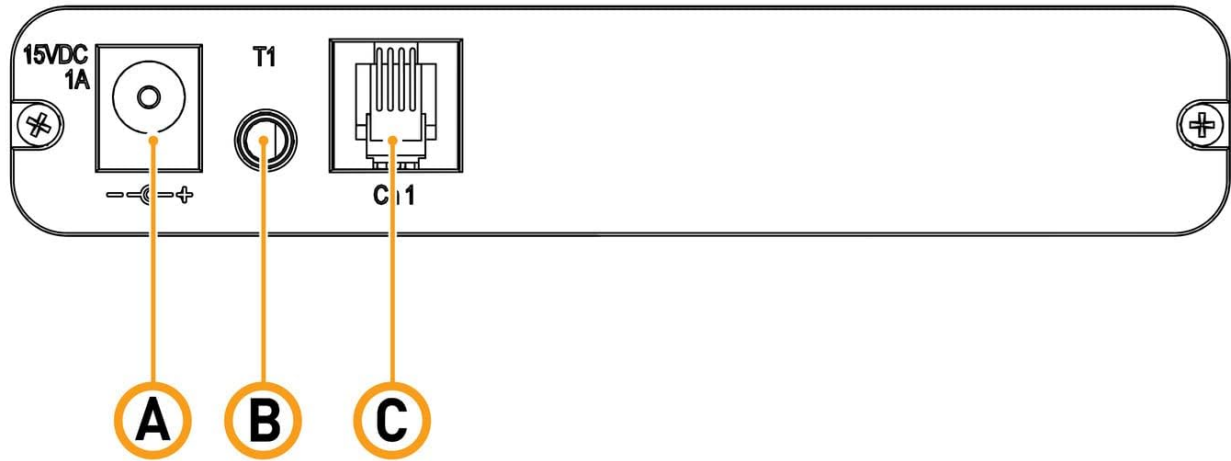
Rear panel connections for the Gavita Master Controller EL1 Gen 2.

- A. 15V DC input:** Connect the provided 120V adapter here.
- B. 3.5 mm jack main temperature sensor (T1):** Connect the temperature sensor to this port.
- C. RJ (4P4C) channel 1 port:** Connect to your lighting fixtures for control (up to 40 ballasts).

Compatibility

The Gavita Master Controller EL1 Gen 2 is compatible with Gavita e-series fixtures, providing seamless integration for your lighting setup.

Connections



A. 15V DC input

B. 3.5 mm jack main temperature sensor (T1)

C. RJ (4P4C) channel 1 port for controlling up to 40 ballasts

Examples of Gavita e-series fixtures compatible with the controller.

Setup

1. **Mounting:** Secure the controller to a wall or suitable surface using the provided mounting plate and screws. Ensure it is in a location with stable temperature and away from direct moisture.
2. **Connect Temperature Sensor:** Plug the temperature sensor into the 3.5mm jack labeled 'T1' on the rear of the controller. Position the sensor in the center of your growing area, away from direct light or airflow, to get an accurate temperature reading.
3. **Connect Lighting Fixtures:** Use the RJ9 to RJ14 controller cable to connect the controller to your Gavita e-series fixtures. Connect the RJ14 end to the controller's Channel 1 port and the RJ9 end to the first fixture. Daisy-chain additional fixtures using appropriate Gavita interconnect cables.
4. **Power Connection:** Connect the 120V adapter to the 15V DC input port on the controller, then plug the adapter into a power outlet. The controller display should illuminate.
5. **Initial Settings:** Upon first power-up, you may need to set the system time and preferred temperature units

(Fahrenheit or Celsius) via the menu.

Operating Instructions

Navigate the controller's menu using the 'Up', 'Down', 'Enter', and 'Back' buttons. The 'Quick-key' button allows for quick viewing of the output level.

Setting Output Mode and Level

- From the main screen, press 'Enter' to access the menu.
- Navigate to 'Output Mode' and press 'Enter'. Select 'Auto', 'On', or 'Off'. 'Auto' mode allows the controller to manage lights based on programmed cycles and temperature settings.
- Navigate to 'Output Level' and press 'Enter'. Adjust the desired light output percentage or wattage using the 'Up' and 'Down' buttons. The EL1 can control output up to 115% (e.g., 1150W for a 1000W fixture).

Configuring Light Cycle

- In the menu, select 'Light Cycle'.
- Set the 'On' and 'Off' times for your lighting cycle.

Setting Temperature Levels (Auto-Dim/Shutdown)

- From the menu, select 'Set Temp Levels'.
- You can set different temperature thresholds for 'Night' and 'Day'. If the room temperature exceeds these set points, the controller will automatically dim the lights to reduce heat or shut them off to prevent damage.

Sunrise/Sunset Ramp Settings

- In the menu, select 'Sunrise/Sunset'.
- Adjust 'Ramp Up' and 'Ramp Down' times. This feature allows the lights to gradually increase or decrease in intensity over a set period (e.g., 20 minutes), simulating natural sunrise and sunset conditions.

Viewing Logs

- Select 'Logs' from the main menu to view a history of events, such as auto-dimming or shutdowns, including the date and time.

Video Tutorial: Going Through The Features of The EL1

This video provides a detailed walkthrough of the features and menu navigation of the Gavita Master Controller EL1 Gen 2.

Maintenance

To ensure the longevity and optimal performance of your Gavita Master Controller EL1 Gen 2, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe the controller's exterior with a soft, dry cloth. Avoid using abrasive cleaners or solvents, as these can damage the display or casing.
- **Sensor Care:** Keep the temperature sensor clean and free from dust or debris. Ensure it is not obstructed, which could lead to inaccurate readings.
- **Cable Inspection:** Periodically check all cables for any signs of wear, fraying, or damage. Replace damaged cables immediately to prevent electrical hazards or system malfunctions.
- **Environmental Conditions:** Ensure the controller is operated within its specified environmental conditions (temperature and humidity) to prevent premature failure.

Troubleshooting

If you encounter issues with your Gavita Master Controller EL1 Gen 2, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
Controller not powering on	No power to the adapter; faulty adapter or power outlet.	Check power outlet and adapter connection. Try a different outlet or adapter.
Lights not turning on/off as programmed	Incorrect light cycle settings; 'Output Mode' not set to 'Auto'; faulty connection to fixtures.	Verify light cycle settings. Ensure 'Output Mode' is set to 'Auto'. Check RJ cable connections to fixtures.
Inaccurate temperature readings	Temperature sensor improperly placed or faulty.	Relocate sensor to a central, unobstructed area. Check sensor cable for damage.
Lights dimming unexpectedly	Room temperature exceeding set 'Temp Levels'.	Check 'Set Temp Levels' in the menu. Improve room ventilation or cooling if temperatures are consistently high.
Controller unresponsive	Temporary software glitch.	Perform a factory reset (refer to 'Controls Overview' for navigation) or power cycle the device.

Specifications

Specification	Detail
Product Dimensions	9.65 x 4.92 x 3.54 inches
Item Weight	1.45 pounds
Item Model Number	HGC906120
Manufacturer	Hawthorne Hydroponics, LLC
Control Channels	1
Max Fixtures (Repeater Bus)	500
Max Fixtures (Single Bus)	40
Output Control Range	50-115%
Features	Non-volatile memory, Event logging, Independent sunrise/sunset, Temperature calibration

Warranty and Support

The Gavita Master Controller EL1 Gen 2 comes with **a5-year limited warranty**, ensuring peace of mind regarding its quality and durability.

For technical support, warranty claims, or further assistance, please contact Gavita customer service or visit the official Gavita website. Keep your proof of purchase for warranty validation.

Online Resources: For additional information, FAQs, and product updates, please visit the [Gavita Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question