

Helios 239

Helios ESA 3 Surface-Mounted Fan Speed Controller User Manual

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the safe and efficient use of the **Helios ESA 3 Surface-Mounted Fan Speed Controller**, Model 239. This device is designed to regulate the speed of compatible ventilation fans, offering precise control over airflow. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INSTRUCTIONS

WARNING: Electrical shock hazard. Always disconnect power before installing, servicing, or cleaning this device. Installation should only be performed by a qualified electrician in accordance with all local and national electrical codes.

- Ensure the power supply matches the device's requirements (230 Volts).
- Do not exceed the maximum current rating of 2.5 Amperes or power rating of 575 Watts.
- Do not operate the device with damaged wiring or if it has been exposed to moisture.
- Keep children away from the device during operation and maintenance.
- This device is intended for indoor use only.

3. PACKAGE CONTENTS

Verify that all components are present before beginning installation:

- Helios ESA 3 Fan Speed Controller (Model 239)
- Installation material (screws, anchors, etc.)

4. SETUP AND INSTALLATION

The Helios ESA 3 is designed for surface mounting. Follow these steps for proper installation:

1. **Choose Location:** Select a suitable, dry, and easily accessible location for surface mounting. Ensure adequate space for wiring and operation.
2. **Disconnect Power:** Before making any electrical connections, ensure the main power supply to the installation area is completely disconnected at the circuit breaker.
3. **Mount the Device:** Use the provided installation material to securely mount the controller to the chosen surface. The device dimensions are approximately 16 x 7 x 27 cm.
4. **Wiring Connections:** This device uses screw terminals for wiring. Connect the power supply and the fan wiring according to the electrical diagram provided with the device (not included in this manual, refer to product packaging or manufacturer's website for specific wiring diagrams). Ensure all connections are tight and secure. The connector type is plug-in.
5. **Verify Installation:** Double-check all connections and mounting security before restoring power.



Figure 1: Front view of the Helios ESA 3 Fan Speed Controller. This image shows the general appearance of the device, which is designed for surface mounting and features control buttons.

5. OPERATING INSTRUCTIONS

The Helios ESA 3 Fan Speed Controller operates with a simple ON-OFF mode and allows for speed adjustment via button control or remote control.

- **Power ON/OFF:** Use the main push-button actuator to switch the connected fan ON or OFF.
- **Speed Adjustment:** Once the fan is ON, use the control buttons on the device or the remote control (if applicable and purchased separately) to adjust the fan speed. The transistor switch type allows for smooth regulation.
- **Control Method:** The device supports both direct button control and remote control functionality.

6. MAINTENANCE

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

- **Cleaning:** Disconnect power before cleaning. Wipe the exterior of the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring connections for any signs of wear or loosening.
- **Spare Parts:** Information regarding the availability of spare parts for this model is currently unavailable. Please contact Helios customer support for assistance if replacement parts are needed.

7. TROUBLESHOOTING

If you encounter issues with your Helios ESA 3 Fan Speed Controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Device does not power on.	No power supply; loose wiring; faulty circuit breaker.	Check power supply at the source. Verify all wiring connections are secure. Reset the circuit breaker.
Fan speed cannot be adjusted.	Incorrect wiring; incompatible fan; faulty control buttons/remote.	Ensure wiring is correct according to the diagram. Confirm the fan is compatible with speed control. Test control buttons or remote.
Fan operates erratically.	Loose connections; electrical interference; device malfunction.	Check all wiring connections. Ensure the device is not near sources of strong electrical interference. If problem persists, contact support.

If troubleshooting steps do not resolve the issue, please contact Helios customer support.

8. SPECIFICATIONS

Model Number	239
Brand	Helios
Dimensions (L x W x H)	16 x 7 x 27 cm
Weight	2 kilograms
Operating Voltage	230 Volts
Current Rating	2.5 Amperes

Power	575 Watts
Mode of Operation	ON-OFF
Mounting Type	Surface Mounting
Control Method	Button Control, Remote Control
Actuator Type	Push Button
Switch Type	Transistor
Terminal Type	Screw
Connector Type	Plug-in
Material	Plastic (housing), Copper (contact material)
Certifications	CE, ISO 9001, TÜV
Included Components	Installation material

9. WARRANTY AND SUPPORT

Helios products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation included with your purchase or visit the official Helios website. For technical support, service, or inquiries about spare parts, please contact your retailer or Helios customer service directly.