



**AKO-D14123-F0003**

# Electronic Temperature Controller User Manual

Model: AKO-D14123-F0003

## INTRODUCTION

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This manual provides essential information for the installation, operation, and maintenance of the AKO-D14123-F0003 Electronic Temperature Controller. This device is designed for use in thermal cabinets, specifically compatible with FABRISTEEL/KFC Vertical Insulated Cabinets, and can also be applied in disinfecting cabinets, ovens, and steamers. Please read this manual thoroughly before installation and use to ensure proper function and safety.

The AKO-D14123-F0003 is a reliable replacement part, designed to match original specifications for direct installation and to restore the functionality of your appliance.

## PRODUCT OVERVIEW

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Figure 1: The AKO-D14123-F003 Electronic Temperature Controller shown with its associated wiring and mounting clips. This image provides a comprehensive view of the main unit and its components.



Figure 2: A close-up front view of the temperature controller, highlighting the digital display and control buttons. The display shows "888" for testing purposes, and buttons for "SET" and power/function are visible.



Figure 3: An overhead perspective of the temperature controller, showing the compact design and the placement of the display and control interface. The "AKO" branding is visible on the front panel.



Figure 4: The rear of the controller, displaying the wiring terminals and the product label. The label indicates the model number AKO-D14123-F0003, electrical specifications (230V~, 50/60Hz, 3.5VA), and IP65 rating.

The AKO-D14123-F0003 is an electronic temperature controller designed for precise temperature management in various thermal applications. It features a digital display for easy reading of temperature values and intuitive buttons for setting parameters. The unit is compact and includes necessary mounting accessories for straightforward installation.

## SPECIFICATIONS

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Feature	Detail
Model Number	AKO-D14123-F0003 (also known as GMOTC-14123003, OCUWUCWBB)
Application	Thermal Cabinets, FABRISTEEL/KFC Vertical Insulated Cabinets, Disinfecting Cabinets, Ovens, Steamers
Material	Metal
Power Supply	230V~, 50/60Hz, 3.5VA (as per product label)
Protection Rating	IP65 (as per product label)
Temperature Range	-10T50 (as per product label, likely -10°C to 50°C)
Dimensions (Package)	7.87 x 7.87 x 3.94 inches
Weight	1.76 pounds
Assembly Required	No
Number of Pieces	1 (Controller unit)

## INSTALLATION AND SETUP

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**Important:** Before beginning installation, ensure the power supply to the appliance is completely disconnected to prevent electrical shock. This device is intended for replacement of existing AKO-D14123-F0003 models or compatible units. Verify the consistency of the damaged product with this replacement part before proceeding.

- Preparation:** Identify the location where the temperature controller will be installed. This is typically a panel cutout on the thermal cabinet or appliance.
- Mounting:** Insert the AKO-D14123-F0003 controller into the designated panel cutout. Use the provided mounting clips (as seen in Figure 1) to secure the controller firmly in place. Ensure a snug fit to maintain the IP65 protection rating.
- Wiring:** Refer to the wiring diagram on the back of the controller (Figure 4) for correct connections. Connect the power supply (230V~, 50/60Hz) to the appropriate terminals (typically terminals 1 and 2). Connect the load (e.g., heating element, cooling fan) to the output terminals (e.g., COOL L1, L2, C). Ensure all connections are secure and properly insulated. If unsure, consult a qualified electrician.
- Sensor Connection:** Connect the temperature sensor (if external and not integrated) to the designated sensor input terminals. Ensure the sensor is placed in the area where temperature measurement is required.
- Power On:** Once all connections are verified and secure, restore power to the appliance. The controller display should illuminate.

## OPERATING INSTRUCTIONS

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The AKO-D14123-F0003 controller is designed for straightforward operation. The digital display shows the current temperature, and the buttons allow for parameter adjustment.

- **Power Button:** Press the power button (usually marked with a circle and vertical line, as seen in Figure 2) to turn the unit on or off.
- **SET Button:** Press the "SET" button to enter the parameter setting mode. In this mode, you can adjust the desired temperature setpoint and other operational parameters.
- **Navigation Buttons:** Use the up/down arrow buttons (often integrated with the SET button or separate, as implied by typical controller interfaces) to navigate through parameters and adjust values.
- **Confirming Settings:** After adjusting a parameter, press the "SET" button again or wait for a few seconds for the controller to automatically save the new setting and return to the normal display mode.

Specific parameter settings (e.g., differential, alarm limits, calibration) may vary based on the application. Refer to the original appliance's manual or consult technical documentation for detailed programming instructions if advanced settings are required.

## MAINTENANCE

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The AKO-D14123-F0003 Electronic Temperature Controller is designed for durability and requires minimal maintenance. Regular checks can ensure its longevity and optimal performance.

- **Cleaning:** Periodically clean the front panel of the controller with a soft, damp cloth. Do not use abrasive cleaners or solvents, as these can damage the display or casing.
- **Connection Check:** Annually, or if issues arise, inspect the wiring connections at the rear of the controller to ensure they remain tight and free from corrosion. Ensure power is disconnected before performing this check.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and humidity ranges to prevent damage to the electronic components.

## TROUBLESHOOTING

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If you encounter issues with your AKO-D14123-F0003 Electronic Temperature Controller, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Controller display is off	No power supply; Loose wiring; Blown fuse in appliance	Check power connection to the appliance; Verify wiring to controller terminals; Check and replace appliance fuse if necessary.
Incorrect temperature reading	Faulty sensor; Sensor not properly connected; Sensor placed incorrectly	Check sensor wiring; Ensure sensor is securely connected; Verify sensor placement in the cabinet; Replace sensor if faulty.
Temperature not regulating	Incorrect setpoint; Faulty output relay; Wiring issue to load (heater/cooler)	Verify setpoint and differential settings; Check wiring to the load; If relay is suspected faulty, professional repair or replacement may be needed.
Error code displayed	Internal fault; Sensor error	Note the error code and consult the original appliance's technical manual or contact customer support for specific error code interpretations.

If the problem persists after attempting these solutions, it is recommended to contact a qualified technician or the product

supplier for further assistance.

## WARRANTY AND SUPPORT

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This product is a replacement part. Specific warranty terms are typically provided by the seller or the original equipment manufacturer (OEM) of the appliance it is installed in. Please refer to your purchase documentation for details regarding warranty coverage.

For technical support or inquiries regarding this AKO-D14123-F0003 Electronic Temperature Controller, please contact your point of purchase or the manufacturer, Generic.

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*Disclaimer: This manual is for informational purposes only. The manufacturer and seller are not responsible for any damage or injury caused by improper installation or use of this product.*