

## KHIRY AKO-D14123-F0003

# AKO-D14123-F0003 Electronic Thermostat Temperature Contactor

User Manual

## 1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and maintenance of the KHIRY AKO-D14123-F0003 Electronic Thermostat Temperature Contactor. Please read this manual thoroughly before using the device to ensure safe and efficient operation.

## 2. SAFETY INFORMATION

### **WARNING: Risk of Electric Shock!**

- Installation and maintenance should only be performed by qualified personnel.
- Disconnect power before performing any wiring or maintenance.
- Ensure proper grounding to prevent electric shock.
- Do not operate the device if it is damaged or wet.
- Adhere to all local and national electrical codes.

This device is designed for industrial and scientific applications. Use it only for its intended purpose as described in this manual.

## 3. PACKAGE CONTENTS

Verify that all items are present in the package:

- AKO-D14123-F0003 Electronic Thermostat Temperature Contactor
- User Manual (this document)

If any items are missing or damaged, contact your supplier immediately.

## 4. PRODUCT OVERVIEW

The AKO-D14123-F0003 is an electronic thermostat temperature contactor designed for precise temperature control in various industrial applications. It features a digital display for temperature readings and control buttons for easy configuration.

## 4.1 Front Panel and Display



Figure 1: Front view of the AKO-D14123-F0003 Electronic Thermostat. This image displays the digital temperature readout, the 'SET' button for configuration, and the power button. The compact design is evident, suitable for panel mounting.

- **Digital Display:** Shows current temperature and programming parameters.
- **SET Button:** Used to enter programming mode and confirm settings.
- **Up/Down Buttons:** Used to navigate menus and adjust values.
- **Power Button:** Turns the device on/off.

## 4.2 Rear Panel and Wiring Terminals



Figure 2: Rear view of the AKO-D14123-F0003 Electronic Thermostat, highlighting the wiring terminals and product specification labels. The labels indicate the model number (REF. AKO-D14123-F0003), IP65 rating, temperature range (-10T50), and electrical specifications (230V~, 50/60Hz, 3.5VA). The terminal block is clearly visible for electrical connections.

- **Power Input Terminals:** For connecting the main power supply (e.g., 230V~).
- **Sensor Input Terminals:** For connecting the temperature sensor.
- **Output Relay Terminals:** For connecting the controlled device (e.g., heater, cooler).

## 5. SETUP AND INSTALLATION

**IMPORTANT: Ensure power is disconnected before proceeding with installation.**

### 5.1 Mounting

The AKO-D14123-F0003 is designed for panel mounting. Cut an appropriate opening in the control panel according to the device dimensions. Secure the thermostat using the provided mounting clips or screws.

- Ensure adequate ventilation around the device.
- Avoid mounting near heat sources or in direct sunlight.

### 5.2 Wiring

Refer to the wiring diagram on the device label and the following general guidelines. Professional electrical installation is highly recommended.

1. Connect the main power supply (e.g., 230V~, 50/60Hz) to the designated power input terminals (L and N).
2. Connect the temperature sensor to the sensor input terminals. Ensure correct polarity if applicable.

3. Connect the load (e.g., heater, cooler) to the output relay terminals (NO, NC, COM) as required by your application.
4. Ensure all connections are secure and properly insulated.

**Verify all wiring connections before restoring power.**

## 6. OPERATING INSTRUCTIONS

### 6.1 Powering On/Off

Press the **Power Button** to turn the device on or off. When powered on, the display will show the current measured temperature.

### 6.2 Setting the Temperature Setpoint

1. Press the **SET Button** once. The display will show the current setpoint value.
2. Use the **Up/Down Buttons** to adjust the setpoint to your desired temperature.
3. Press the **SET Button** again to confirm the new setpoint and exit the setting mode.

### 6.3 Advanced Settings (Programming Mode)

To access advanced parameters (e.g., hysteresis, calibration, operating mode), press and hold the **SET Button** for several seconds until the first parameter code appears. Use the **Up/Down Buttons** to navigate through parameters and the **SET Button** to select and modify them. Refer to the specific parameter list (not provided in this general manual) for detailed descriptions of each setting.

**Caution: Incorrect advanced settings can lead to improper operation or damage. Only adjust if you understand the function of each parameter.**

## 7. MAINTENANCE

**Always disconnect power before performing any maintenance.**

- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically check wiring connections for tightness and signs of wear or damage.
- **Sensor Check:** Ensure the temperature sensor is clean and properly positioned for accurate readings.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Device does not power on.	No power supply; Loose wiring; Blown fuse.	Check power source; Verify wiring connections; Check and replace fuse if necessary.
Incorrect temperature reading.	Faulty sensor; Sensor not properly placed; Calibration error.	Check sensor connection; Reposition sensor; Refer to advanced settings for calibration.
Load not switching.	Incorrect setpoint; Wiring error to load; Faulty relay.	Verify setpoint and hysteresis; Check load wiring; Contact support if relay is suspected faulty.

Problem	Possible Cause	Solution
Display shows error code.	Sensor fault; Internal error.	Consult the specific error code list (if available in product documentation) or contact technical support.

If the problem persists after attempting these solutions, contact technical support.

## 9. SPECIFICATIONS

Feature	Specification
Brand	KHIRY
Model Name	AKO-D14123-F0003 (as per product title) / KHIRY (as per specifications)
Control Type	Button Control
Item Weight	50 Grams (1.76 ounces)
Package Dimensions	1.18 x 0.79 x 0.39 inches
ASIN	B0D2VLRRGG
Manufacturer	KHIRY
IP Rating	IP65 (from image label)
Operating Temperature Range	-10T50 (from image label, likely -10 to 50 degrees Celsius)
Voltage / Frequency	230V~, 50/60Hz (from image label)
Power Consumption	3.5VA (from image label)

## 10. WARRANTY AND SUPPORT

For warranty information and technical support, please contact the manufacturer, KHIRY, or your authorized distributor. Keep your purchase receipt as proof of purchase.

For the most up-to-date information and support resources, please visit the official KHIRY website (if available).