

Aoleaby UTH-170

Aoleaby UTH-170 Heating Film Thermostat User Manual

1. INTRODUCTION

Thank you for choosing the Aoleaby UTH-170 Heating Film Thermostat. This device is designed for precise temperature control in geothermal membrane and electric floor heating systems. It features a robust 4000W output, a 12-hour countdown automatic shutdown function, and a user-friendly interface. This manual provides essential information for the safe installation, operation, and maintenance of your thermostat.

Please read this manual thoroughly before installation and operation to ensure proper use and to prevent damage to the product or injury.

2. PRODUCT OVERVIEW AND FEATURES

The UTH-170 thermostat is a surface-mounted temperature controller with a slim design and front wiring for convenient installation. Its high-brightness LED lights provide clear status indication.



Figure 2.1: Aoleaby UTH-170 Thermostat unit and temperature sensor cable.

Key Features:

- **Easy Operation:** User-friendly interface for straightforward temperature adjustments.
- **Fast Response:** Quickly detects and reacts to temperature changes for optimal control.
- **High Stability:** Designed for stable and reliable performance during extended operation.
- **Data Recording and Analysis:** Capable of recording temperature data, with support for data export and analysis (specific functionality may require additional software or connection, refer to advanced settings).
- **Automatic Shutdown:** Features a 12-hour countdown automatic shutdown for energy efficiency and safety.
- **High Output Power:** Supports up to 4000W (4KW) heating systems.

3. SAFETY INFORMATION

Please observe the following safety precautions to prevent electric shock, fire, or damage to the thermostat and heating system:

- **Professional Installation:** Installation should only be performed by a qualified electrician in accordance with local electrical codes and regulations.
- **Power Disconnection:** Always disconnect power to the heating system at the main circuit breaker before installing, servicing, or removing the thermostat.
- **Voltage Compatibility:** Ensure the thermostat's voltage rating matches your electrical supply.
- **Proper Wiring:** Use appropriate wire gauges for the load and ensure all connections are secure and insulated.
- **Avoid Moisture:** Do not install the thermostat in areas where it may be exposed to water or excessive humidity.
- **Do Not Tamper:** Do not attempt to open or repair the thermostat yourself. Refer all servicing to qualified personnel.

4. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation:

- Aoleaby UTH-170 Heating Film Thermostat Unit
- Temperature Sensor Cable (red wire)
- User Manual (this document)



Figure 4.1: Contents of the UTH-170 package, including the thermostat, sensor, and manual.

5. INSTALLATION

The UTH-170 thermostat is designed for surface mounting with front wiring. It is crucial that installation is performed by a qualified electrician.

Installation Steps:

1. **Power Off:** Before beginning any electrical work, ensure the main power supply to the heating circuit is completely disconnected at the circuit breaker. Verify with a voltage tester.
2. **Mounting Location:** Choose a suitable indoor location for the thermostat, away from direct sunlight, drafts, or heat sources that could affect temperature readings. The thermostat is surface-mounted.
3. **Wiring:** Connect the heating film wires and power supply wires to the designated terminals on the thermostat. The UTH-170 features front wiring for ease of connection. Ensure all connections are tight and correctly polarized. Refer to the wiring diagram provided with the product packaging for specific terminal assignments.
4. **Sensor Connection:** Connect the temperature sensor cable to the dedicated sensor terminals on the thermostat. Position the sensor in the floor or heating area according to the heating system manufacturer's recommendations to ensure accurate temperature measurement.
5. **Secure Thermostat:** Mount the thermostat securely to the wall using appropriate screws and anchors.
6. **Power On:** Once all connections are secure and the thermostat is mounted, restore power to the circuit at the main breaker.

6. OPERATION

After successful installation and power-up, the thermostat is ready for operation.

Basic Functions:

- **Power On/Off:** Use the designated button or switch to turn the thermostat on or off.
- **Temperature Setting:** Adjust the desired temperature using the up/down buttons or rotary dial. The current temperature and set temperature will be displayed on the LED screen.
- **12-Hour Countdown Automatic Shutdown:** This feature automatically turns off the heating system after a 12-hour period. This is a safety and energy-saving function. To reactivate heating, the thermostat will need to be manually turned on again or reset. Consult the specific product interface for details on how to activate or reset this function.
- **LED Indicators:** Observe the high-brightness LED lights for operational status, such as heating active, power on, or error codes.

7. MAINTENANCE

The UTH-170 thermostat requires minimal maintenance to ensure optimal performance.

- **Cleaning:** Periodically wipe the thermostat's exterior with a soft, dry cloth. Do not use abrasive cleaners, solvents, or excessive moisture.
- **Inspection:** Annually, have a qualified electrician inspect the wiring connections to ensure they remain secure and free from corrosion.
- **Avoid Obstruction:** Ensure the thermostat is not covered or obstructed, as this can affect its temperature sensing capabilities.

8. TROUBLESHOOTING

If you encounter issues with your UTH-170 thermostat, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Thermostat has no power/display is off.	No power from circuit breaker; loose wiring connection.	Check circuit breaker and ensure it is ON. Verify wiring connections (power off first).
Heating system not turning on.	Temperature set too low; 12-hour shutdown active; faulty heating element; loose heating wire connection.	Increase set temperature. Reset thermostat if 12-hour shutdown is active. Check heating element and wiring (power off first).
Inaccurate temperature reading.	Sensor improperly placed or damaged; thermostat exposed to drafts/heat sources.	Ensure sensor is correctly installed and undamaged. Relocate thermostat if necessary.
Thermostat turns off after 12 hours unexpectedly.	Automatic shutdown feature is active.	This is a normal function. Manually reactivate the thermostat to resume heating.

If the problem persists after attempting these solutions, please contact customer support or a qualified electrician.

9. SPECIFICATIONS

Specification	Detail
Model	UTH-170
Brand	Aoleaby
Output Power	Max 4000W (4KW)
Mounting Type	Surface Mounted
Wiring Method	Front Wiring
Automatic Shutdown	12-hour countdown
Display	High brightness LED lights
Item Weight	1200 Grams (approx. 2.65 pounds)
Package Dimensions	Approx. 1.18 x 0.79 x 0.39 inches

10. WARRANTY AND SUPPORT

Aoleaby products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact details provided with your purchase documentation or visit the official Aoleaby website. Keep your proof of purchase for warranty claims.

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