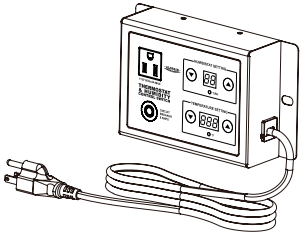
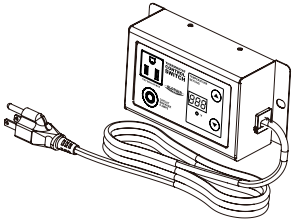
THCS-10 / TCS-10

Installation and Operations Manual

READ AND SAVE THESE INSTRUCTIONS



THCS-10



TCS-10

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Specifications subject to change without notice.

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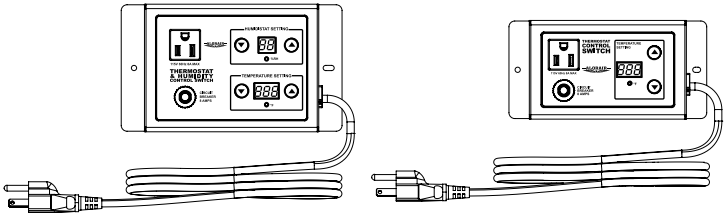
Important: Please read this user manual thoroughly before installation. Keep the manual safe for future reference.



About the THCS-10 / TCS-10

The THCS-10 / TCS-10 is a versatile temperature and humidity control switch. It includes a power socket and a manual reset overload protection switch. This device allows users to set desired temperature and humidity levels.

Model Number	THCS-10	TCS-10
Power Supply Voltage	115 V ~ 60 Hz	115 V ~ 60 Hz
Maximum Current Limit	8 Amps	8 Amps
Control Method	Temperature / Humidity	Temperature
Humidity Setting Range	20% - 90%	/
Temperature Setting Range	60°F - 120°F	60°F - 120°F
Product Dimensions	5.9" × 4.33" × 1.9"	5.31" × 3.35" × 2"

Note: The temperature detection has a deviation of ±3°F, and the humidity detection has a deviation of ± 3% RH.

Parts Description

The following parts are included with the THCS-10 and TCS-10:

- User Manual × 1
- Plastic Expansion Tubes × 3
- M4×35 Screws × 3

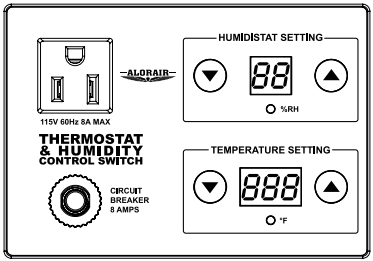
Please verify that all listed items are included. If any items are missing, contact us promptly.

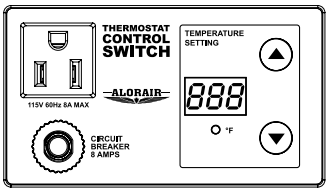
Installation Instructions

1. Select the desired installation location and use the provided screws to secure the THCS-10 / TCS-10. (Tools required: electric screwdriver, drilling tool)
2. Plug the power cord into a standard power outlet.

Note: During installation, maintenance, or servicing, disconnect the power supply of the THCS-10 / TCS-10 to avoid potential hazards.

Operation and Functions Guide





1. HUMIDISTAT SETTING Functions

- ▲ **Up Key**: Press to increase the humidity setting by one unit.
- ▼ **Down Key**: Press to decrease the humidity setting by one unit.
- **Rapid Adjustment**: Hold either key ▲ ▼ for rapid adjustment of humidity values.
- **Humidity Setting Range**: OFF, 20-90% (Factory default is 50%).

  When set to OFF, the indicator light

below the window will turn off, disabling humidity control.

- When setting the humidity, the %RH window

will blink to display the set value. After 3 seconds, it will switch to display the detected humidity value. The default display shows the detected humidity value.

2. TEMPERATURE SETTING Functions

- ▲ **Up Key**: Press to increase the temperature setting by one unit.
- ▼ **Down Key**: Press to decrease the temperature setting by one unit.
- **Rapid Adjustment**: Hold either key ▲ ▼ for fast adjustment of temperature values. **Temperature Setting Range**: OFF, 60-120°F (Factory default is 77°F).
- When set to OFF, the indicator light

below the window will turn off, disabling temperature control.
- When setting the temperature, the window

will flash to show the set value. After 3 seconds, it will switch to display the detected

temperature value.

- The default display shows the detected temperature value.

Note: When the detected temperature/humidity falls below the set value, the THCS-10 /TCS-10 will automatically cut off the socket power supply. If the detected temperature/humidity remains above the set value continuously for 3 minutes, the socket power supply will automatically be restored.

3. Control Modes

- **THCS-10**: Offers two control modes: temperature control and humidity control. It can independently control temperature or humidity, as well as combined temperature and humidity control. In combined control mode, if either condition is met, the THCS-10 will automatically cut off the socket power supply.
- **TCS-10**: Provides temperature control only.

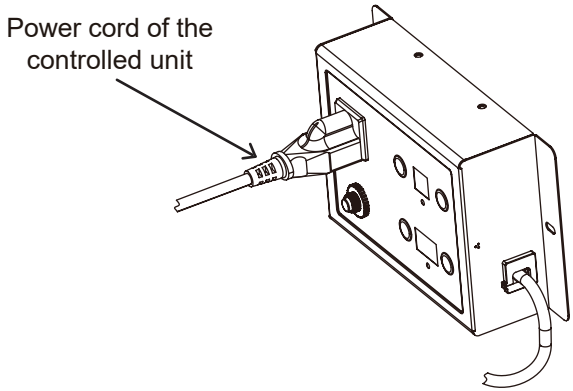
4. Overload Protection Function

- When the current drawn by devices connected to the THCS-10 / TCS-10 exceeds 8 amperes, the THCS-10 / TCS-10 will automatically activate protection mode, causing the overload protection switch to trip. After protection activates, troubleshooting is required to identify and resolve the issue. Once resolved, manually reset the overload protection switch by pressing it to restore power.

5. Power-off Memory Function

- **TCS-10**: Features temperature memory.
- **THCS-10**: Features humidity and temperature memory.

Usage Scenarios



This device can be used with multiple products by plugging their power cords into the sockets of the THCS-10 / TCS-10. When the set temperature or humidity levels are reached, the THCS-10 / TCS-10 controls its relay to cut off the power supply. Conversely, when the ambient temperature or humidity exceeds the set values, the THCS-10 / TCS-10 controls its relay to restore the power supply.

The THCS-10 / TCS-10 is versatile and can be used with exhaust fans.

Limited Warranty

This limited warranty becomes effective from the date of purchase. ALORAIR assures the original purchaser that this product is free from defects in materials or workmanship for 5 years. ALORAIR will, at its discretion, repair or replace any defective parts free of charge (excluding shipping costs).

Customer Responsibilities:

1. The customer must provide regular maintenance and upkeep.
2. The dismantling and reinstallation of the equipment are the full responsibility of the owner.
3. If the customer is unable to return the equipment to an authorized repair center, all shipping expenses are the customer's responsibility. Additionally, all associated costs related to shipping, including but not limited to palletizing, packaging, labeling, and pickup, are the customer's responsibility.
4. If shipped, the customer is responsible for all risks of loss or damage.

Exclusions from Limited Warranty

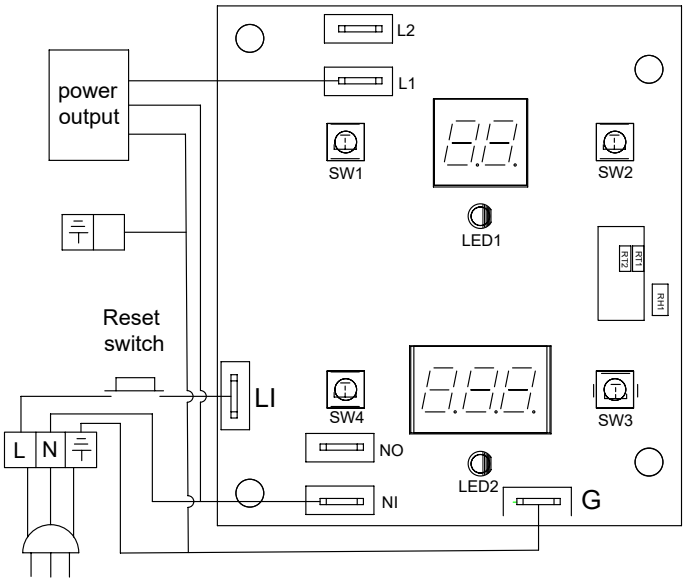
This limited warranty covers material or manufacturing defects encountered during standard residential, commercial, or non-commercial use, but does not include the following:

- Damage occurring from misuse or unintended use of this product.
- Damage caused by unauthorized modification or alteration of the product.
- Cosmetic damage including scratches, dents, fractures, and other surface damage to the product.
- Damage resulting from misuse, abuse, insect infestation, accidents, fire, flood, or other acts of nature.

- Damage resulting from improper line current, voltage, fluctuations, or surges.
- Damage caused by failure to maintain the product.
- Damage from using this product in rooms with spas or outdoor swimming pools will invalidate the limited warranty.

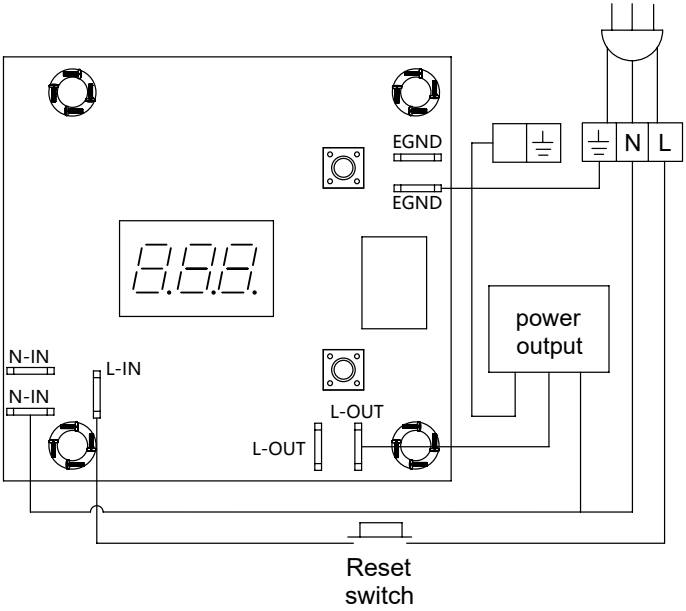
Circuit Diagram

THCS-10



Circuit Diagram

TCS-10



ALORAIR

WARRANTY REGISTRATION CARD

Return To:
AlorAir Solutions, Inc.

ORDER NUMBER: _____

MODEL: _____ **SERIAL #:** _____

INSTALLER: _____ **INSTALLATION DATE:** _____

NAME: _____

ADDRESS: _____

CITY: _____ **STATE:** _____ **ZIP:** _____

PHONE #: _____ **EMAIL:** _____

- If you have any questions, please feel free to contact us at (888) 990-7469 or visit *www.alorair.com*
- Register your unit for warranty using this link: *www.alorair.com/page/Warranty--Warranty-registration*
- Warranty Registration *https:/www.alorair.com* or scan this QR code to direct you to the waranty registration website.

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