

STC- 3028 Dual Digital Temperature Controller Hygrometer  
C/F Thermostat Two Relay Output AC 110V 220V DC 12V  
24V 10A

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## STC-3028



0~110°C



0~100%RH



**DC12V/DC24V/110-220VAC**

**Feature:**

Be able to control temperature and humidity at the same time.

Be able to connect with humidifier and dehumidifier equipment at the same time.

Be able to connect with refrigeration/ heating and humidifier/dehumidifier equipment at the same time.

Heating/Cooling function could be set separately for refrigeration and heating to protect temperature controller from violent change. Same as humidity Control.

Supporting Temp and Humidity Calibration

[Dual Display Window] Be able to display measured temperature/humidity and set temp/humidity at the same time

**Specification:**

Model: STC-3028

Input voltage: AC110~220V± 10%, DC24V, DC12V

Measuring temperature range: -0° ~ +110°

Measuring humidity range: 0%RH ~ +100%RH

Accuracy: ±1°, 0.1%RH

Relay output contact capacity: 10A/240VAC

Sensor length: 1m

Set startup temperature(humidity):

Press the "up" button once to display the starting temperature(humidity). Long press the "up" button for about 3 seconds, The required temperature(humidity) can be set by the up and down keys

Set stop temperature(humidity):

Press the "down" button once to display the stop temperature(humidity). Long press the button for about 3 seconds and the stop temperature(humidity) number flashes. The required temperature(humidity) can be set by the up and down keys

Temperature/humidity correction:

Press "up" and "down" button at the same time.

# STC-3028



Temperature

0~110°C



Humidity

0~100%RH



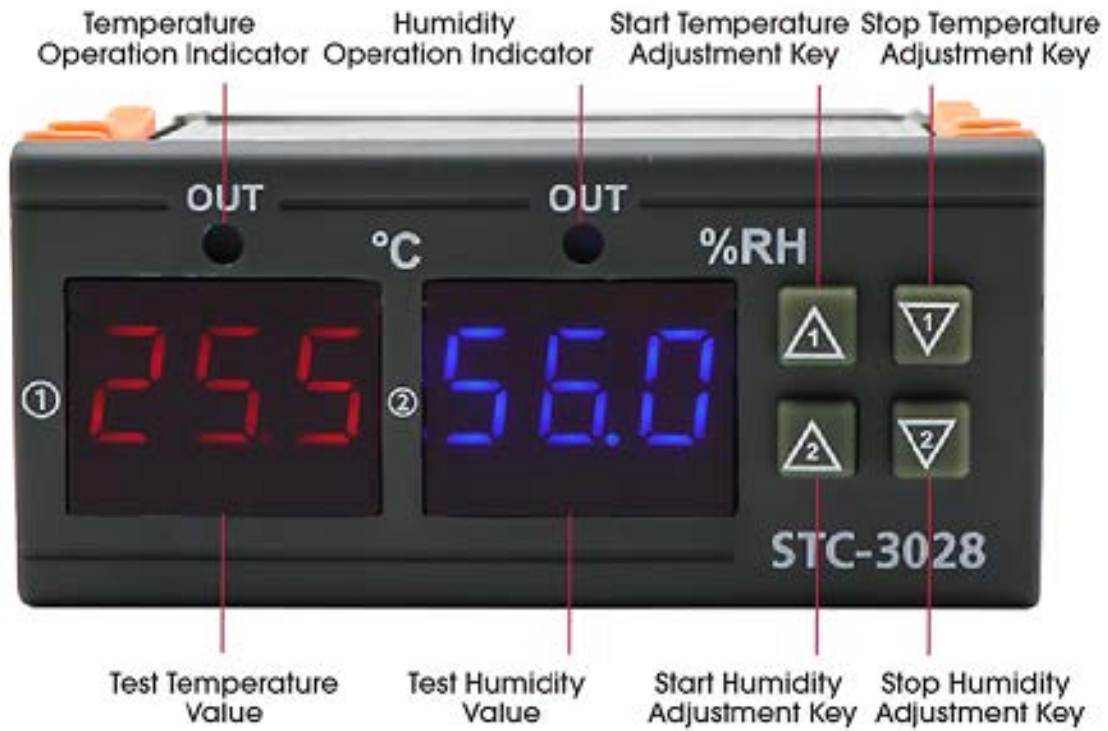
**DC12V/DC24V/110-220VAC**



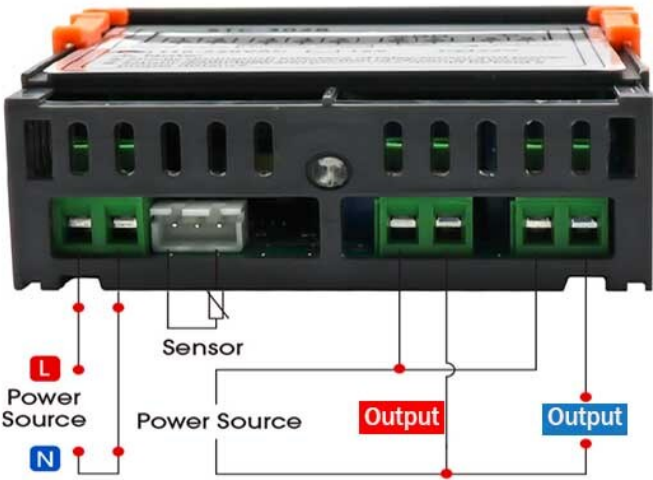
Temperature Measurement Range: 0~110°C
Control Accuracy: 0.1°C 0.1%RH
Load Power: 120/240/2200W
Output Capacity: 10A (Direct Output)
Detection Probe: Integrated Sensor (1m)
Humidity Range: 0-100% RH
Working Voltage: 12V/24V/110-220V
Opening Size: 70mm*28mm
Net Weight: 127G
Shell Material: Abs Flame Retardant Plastic Shell

# STC-3028 Control Panel

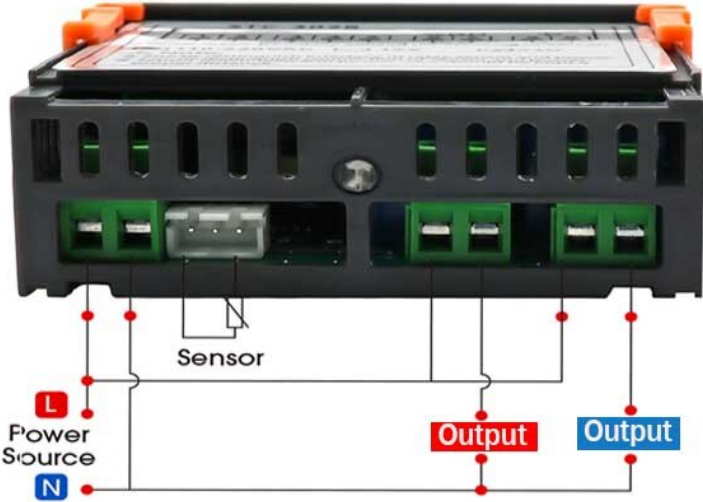
Temperature Control / Humidity Control



# Connection 1 : Independent Power Supply For Load



# Connection 2: Same Power Supply For Load



## Setting Example

Temperature Refrigeration Setting  
Description

Start Temperature < Stop Temperature  
= Heating

Start Temperature > Stop Temperature  
= Cooling

Press The  $\Delta$  1 Key Once To Display The Starting Temperature. Press And Hold The  $\Delta$  1 Key For About 3 Seconds To Flash The Starting Temperature. You Can Set The Required Temperature Value With The  $\nabla$  1 Key  $\nabla$  1

Press The  $\nabla$  1 Key Once To Display The Stop Temperature. Press And Hold The  $\nabla$  1 Key For About 3 Seconds To Stop The Temperature Flashing. The Required Stop Temperature Can Be Set Through The  $\Delta$  1  $\nabla$  1 Key

Temperature Refrigeration Setting  
Description

Start Humidity < Stop Humidity  
= Humidification

Start Humidity > Stop Humidity  
= Dehumidification

Press The  $\Delta$  2 Key Once To Display The Startup Humidity. Press And Hold The  $\Delta$  1 Key For About 3 Seconds To Start The Humidity Flashing. You Can Set The Required Humidity Value By Pressing The  $\nabla$  1 Key  $\nabla$  1

Press The  $\nabla$  1 Key Once To Display The Stop Humidity. Press And Hold The  $\nabla$  1 Key For About 3 Seconds To Stop The Humidity Flashing. The Required Stop Humidity Can Be Set Through The  $\Delta$  1  $\nabla$  1 Key

### Temperature And Humidity Correction:

This Function Is Used For Temperature And Humidity Correction. If The Detected Temperature Deviates From The Actual Temperature, This Function Can Be Used To Correct The Corrected Value = Detected Value + Corrected Value. At The Same Time, Press And Hold  $\Delta$  1 And  $\nabla$  1 For 3 Seconds To Display 0.0, Then You Can Adjust The Addition And Subtraction. After Adjusting The Correction Value, Wait For 5 Seconds, And Automatically Jump Back To Display The Actual Temperature. (The Temperature And Humidity Adjustment Method Is The Same, The Keys Are Different, And The Humidity Key Is  $\nabla$  2  $\Delta$  2)

### How To Restore Factory Settings?

Press And Hold The  $\nabla$  1  $\nabla$  2 Key For 3 Seconds When The Power Is On, The Nixie Tube Displays 88, And Then Jumps Back To The Detection Temperature, Which Means That The Factory Value Has Been Restored