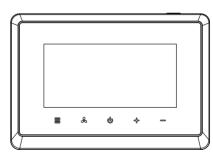
T29UTW-7-WIFI(TY)

OPERATING INSTRUCTION

OPERATING INSTRUCTION

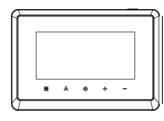


<u>T29UTW-7-WIFI(TY)</u>

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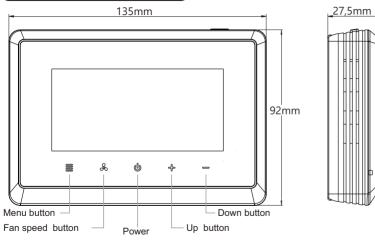
Specifications



T29UTW-7-WIFI(TY)
thermostat

- Power source: 18-30VAC 50/60Hz
- IP Rating: IP21
- Temperature setting range: 41°F~95°F
- Temperature setting accuracy: 1°F
- Temperature display range :32°F~122°F
- Temperature accuracy: 0.1°F
- Operation temperature range: 32°F~122°F
- Shipping & storage temperature : 14°F ~ 140°F
- Output: Fan Relay Load Imax 24V/(0.5A)
 Compressor/Valve Relay Load Imax 24V/(0.5A)

Thermostat's appearance



Mode button

- Under power on status, short press

 button to switch the mode, long press

 button to enter
 the programming settings. Under programming setting status, short press

 button to enter the
 next item.
- 2. Under power off status, long press ≡ button to enter the menu setting. Short press ≡ button under menu setting state to enter the next item.

4 Fan speed button

- 1. Under power-on status, short press & button to switch the wind speed mode. Long press button to enter time query. Under time query or setting status, short press button to enter the next time setting.
- 2.Under power off status, short press ≡ button in menu setting state to enter the previous item.

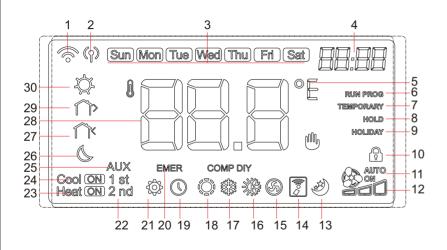
(Power button

- 2.In power off, short press to power on.

+ Increase button

Decrease button

- * In power on, press increase button and decease button simultaneously to activate key lock.
- * Without holiday mode and hold mode



1: WIFI icon: Flashing indicates the WIFI in connection, static indicates successful connection 2: Fast flash indicates the network configuration status, Slow flash indicates AP connect network status. 3: Week 4: Temperature setting, Time setting, Parameter setting 5: Temperature unit 6: Program run 7: Temporary mode 8: Permanent mode 9: Holiday mode 10: Key lock 11: Indicate Fan AUTO/ON 12: Indicate Filter alarm 22: 1 stage or 2 stage output 13: Indicates leave home mode 23: Heating Output 14: Indicate UV light alarm 24: Cooling Output 15: Indicate fresh air output 25: Assistant Heating Output 16: Indicate Auto mode 26: Sleep 17: Indicate cooling mode

18: Indicate heating mode

20: Indicate Emergency and Auxiliary Heat mode

19: Indicate clock

21: Setting

27: Return

29: Leave

30: Wake

28: Temperature Sampling

Thermostat Installation

1.Unscrew terminal protective jacket then wiring.



3.Install and fasten foundation, embed in display module.



After wiredlid the terminal protective jacketinstall the screw.

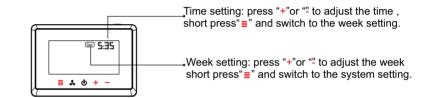


4.Installation finished.



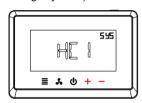
First Time Setting

Set the current actual time and week.



System Setting

(Multistage system)



1.press "+"or "- to select the primary system .

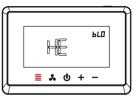
Parameter options:(CO1,CO2,HE1,HE2,HC1,HC2,HP1,HP2,HPA)

CO1:1 cool conventional CO2: 2 cool conventional HE1: 1 heat conventional HE2: 2 heat conventional

HC1: 1 heat/1 cool conventional HC2: 2 heat/2 cool conventional

HP1: 1 compressor heat pump,1-AUX

HP2: 2 compressors or 2 speed compressor heat pump,1-AUX HPA: 2 compressors or 2 speed compressor heat pump, 2-AUX



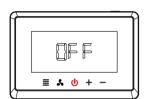
2.press"

"to confirm the selection system

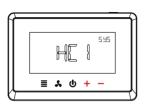
HE: Electric backup heat HA:Fossil fuel backup heat



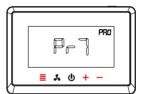
3. System setup completed, press "≣"to return to the main interface



1.Short press the power button "o", and then the screen shows "OFF".



2.Long press the menu button
"≡"for 5s until the system
selection interface is displayed
and select the system set up
previously.



3.After system selection, select programming mode: press "+" or "- "for switch the programming mode(Pr0/Pr2/Pr7),and press "≡"to confirm and save the options. Pr0:Non-programmable Pr2:Work days+Friday&Saturday Pr7:7 days individually programming



4.Short press the power button "o",and the screen shows "OFF",then short press the power button"o"again to enter the programming main interface



5.Long press the menu button
"≣"for 5s to enter the programming setting.
please Keep all the buttons lights on before performing this operation,if not, please press "o"

7 days programming-Time/temperature setting

Separate programming settings for each day (Pr7) (the programming setting are different from Sunday to Monday)

The are 4 periods each day by default week setting time setting Sun Mon Tue Wed Thu Fri temperature setting Four periods for a day Heating/ cooling mode

- 1.Week setting
- 2.Time setting
 3.Temperature setting
- press "+"" to adjust the week / time / temperature, short short press" ≡" to save the setting and switch to next period setting.



long press "≣" for 5s to switch the heating mode or cooling mode

Default setting (heating)

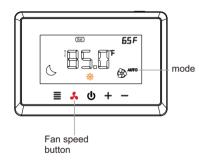
| periods Week | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|--------------------|------|------|------|------|------|------|------|
| 6:00 Morning | 72°F |
| 8:00 Out door | 61°F |
| 18:00 Back home | 72°F |
| 22:00 Night | 61°F |

* Exit programming settings : short press power button "o"
Return to the previous step : short press fan speed button ".*"

Default setting (cooling)

| periods week | Sun | Mon | Tue | Wed | Thu | Fri | Sat |
|--------------------|------|------|------|------|------|------|------|
| 6:00 Morning | 77°F |
| 8:00 Out door | 82°F |
| 18:00 Back home | 77°F |
| 22:00 Night | 82°F |

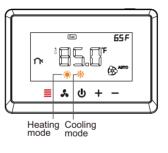
Restore default setting: long press "+"and "- "for more than 5s until the screen shows "dEF" and the "dEF" flash 3times.



Fan speed mode setting : short press "♣" for switching "AUTO" or "ON"mode.

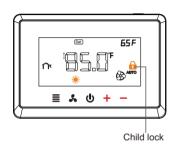
AUTO:Automatic mode ON:FAN ON mode

Cooling and Heating Modes



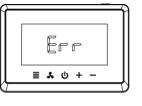
Short press the menu button
"≡"for switching cooling mode
"*"or heating mode "*" or
single speed fan mode "€"





Press the "+" and "-" buttons for 5s at the same time to open / close the child lock "a".

Errod Warning



Room Temp(inside room sensor) broken or short cut,the thermostat will have "Err"

- 1.In the state of shutdown,long press menu button
 "≡"for 5s to enter the configuration parameter
 programming setting.
- 2.Press "+"or "-"to select the configuration parameter setting,then press "■"to save and switch to the next item setting.
- 3.After all the parameters are set up, press power button "op"exit the setting and return to the OFF stage.



- 1.The thermostat will exit the configuration parameter setting automatically and return to the shutdown state if there is no any operation whin 30s.
- 2.Restore default setting: during setup, long press "+"and "-"for more than 5s until the screen shows "dFF"and the "dEF"flash 3times.

Parameter options:(CO1,CO2,HE1,HE2,HC1,HC2,HP1,HP2,HPA)

CO1:1 cool conventional CO2: 2 cool conventional

HE1: 1 heat conventional HE2: 2 heat conventional

HC1: 1 heat/1 cool conventional HC2: 2 heat/2 cool conventional

HP1: 1 compressor heat pump,1-AUX

HP2: 2 compressors or 2 speed compressor heat pump,1-AUX

HPA: 2 compressors or 2 speed compressor heat pump, 2-AUX

Factory default: HC1

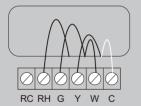
1. The thermostat will display the "all" after a set time of operation. Factory default:0 2. Selection of 00 will cancel the function.

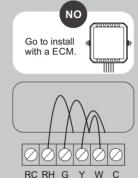
If the option is 1.2.please choose NTC-10 sensor.

✓ CHECKPOINT:C WIRE

Do your have a C wire connected to you old thermostat?





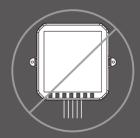


∹∯: TIPS:

The wiring on your old thermostat may look different, just check to see if there's a C wire.

Install your thermostat with a C wire

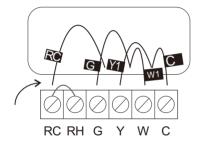
If you have a C wire, it will power your thermostat. you won't need the Electric Control Module included in the box.



TIPS:

TO install accessories(humidifier, dehumidifier or ventilator)please refer to the wiring diagrams at wiring.

Carefully disconnect and label the wires from your old thermostat one at a time, using the labels provided.

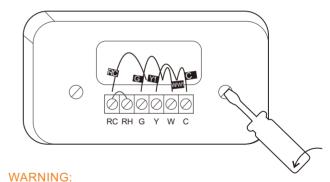


∹∭: TIPS:

If you have a jumper between RC,RH,OR R, leave it alone. Only label the wires that run from your wall into a terminal block.

STEP2

Unscrew the mounting plate of your old thermostat to remove it from the wall.



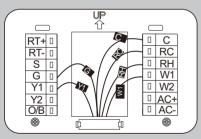
Be careful, as some thermostat may contain mercury. Recycle your old thermostat safely with your local hazardous waste facility.

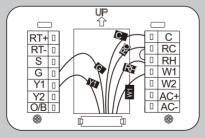
◯ CHECKPOINT: INSERT YOUR R WIRE(S)

Do your have more than one R wire? (That includes R,RC,and RH)









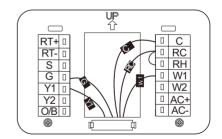
Note: Do not jumper RC or RH

STEP3

Insert your remaining wires into the side (not the front) of their corresponding terminal blocks.

STEP4

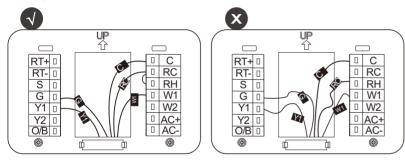
Tug on the wire gently to ensure they are securely connected.



TIPS:

- 1.Press the terminal block levers to insert the wires more easily.
 2.When a wire has been connected correctly, the level on the block will lower.

Carefully push any excess wires back into the hole and ensure there are no drafts coming from the hole(s) in the wall.



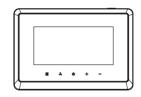
-\(\tilde{\pi}\): TIPS:

Large holes behind your thermostat will affect temperature readings. Prevent drafts by covering the holes.

Turn the power to your HVAC system back on using the master switch or at the circuit breaker box.

Congratulations, you did it!

Say hi to your new thermostat! To complete your setup and registrations, follow the instructions on your thermostat screen.



Install your thermostat without a C wire

If you don't have a C wire, you will need to use the Electric Control Module included to reliable power your thermostat.

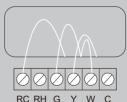
(Optional 4 to 5 wires)



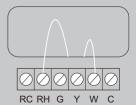
◯ CHECKPOINT: 3 OR 4 WIRES

The Electric Control Module requires your system to have either of the following:4 wires W/W1,Y/Y1,G,and R(or RC or RH) Do you have these wires?

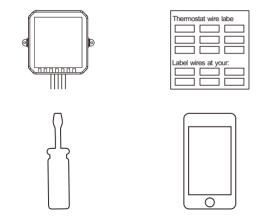






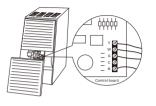


Take your Electric Control Module ,wire labels, tools, your smart-phone, and go to your HVAC system.



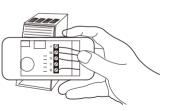
STEP2

Open your HAVC system's cover to reveal at control board.



STEP3

Take a picture of the wires connected to your control board. You may need to reference this photo later on.

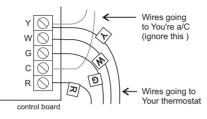


MARNING:

HVAC system contain high voltage wires. Use caution when working with the control board. If you'd rather leave it up to a professional.

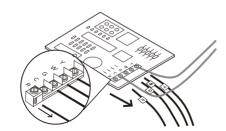
Label only the R,Y,or Y1,G,and W or W1 wires with the matching labels provided.

If you have more than one wire going into these terminals, only label those going to your thermostat.



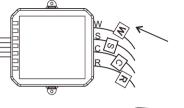
STEP5

Disconnect the wires labeled R,Y,G,and W from the control board.



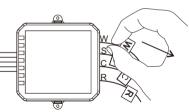
STEP6

Connect the wires you disconnected from the control board into their matching gray terminal blocks on the Electric Control Module.



STEP7

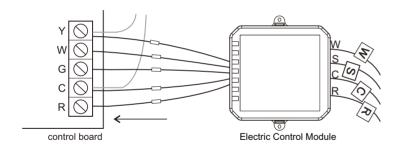
Tug on the wires gently to ensure they are securely connected.



∹∭: TIPS:

- 1.Press the buttons to insert the wires more easily.2.When a wire has been connected correctly, the button on that block will lower.

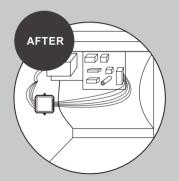
Connect the five white wires coming out of your Electric Control Module to their correspending terminals on the control board .



◯ CHECKPOINT: Electric Control Module

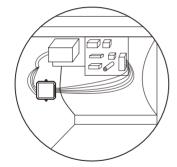
Check that you have installed the Electric Control Module correctly. It should be installed between your thermostat wiring and your control board.





Mount the Electric Control Module inside your HAVC system,taking care not to strain the wires.

Close the HVAC cover panel securely return to your thermostat.



∹Ç⊤ TIPS:

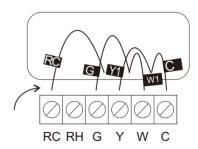
Make sure your HVAC panel is fully closed. Some systems will not turn on if the cover panel has not been closed properly.

STEP10

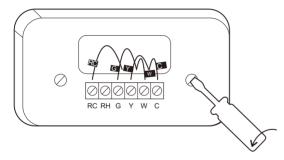
Back at your thermostat:

Carefully disconnect and label the wires from your old thermostat one at a time, using the labels provided.

If you have a jumper between RC,RH,or R leave it alone. Only label the wires that run from your wall into a terminal block.



Unscrew the mounting plate of your old thermostat to remove it from the wall.





Be careful, as some thermostat may contain mercury. Recycle your old thermostat safely with your local hazardous waste facility.

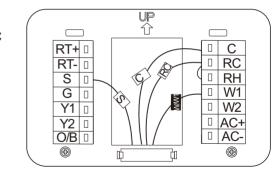
STEP12

Remove the RC,C and S labels from the label sheet and attach them to the wires as shown below:

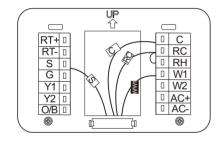
R/RC/RH→RC

 $\mathbf{G}{
ightarrow}\mathbf{C}$

Y→S



First, connect these 3 wires as show: RC,C,S. Then connect any remaining wires to their corresponding terminal.

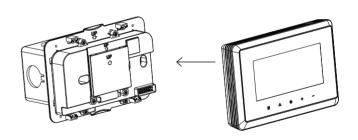


TIPS:

1.Press the terminal block levers to insert the wires more easily.
2.When a wire has been connected correctly, the level on the block will lower.

STEP14

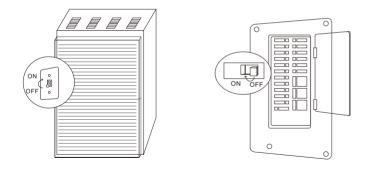
Gently press your thermostat into the backplate until it "clicks" into place.



TIPS:

If the thermostat "rocks" or is not flush with the wall, be sure the excess wires are pushed all the way into the wall.

Turn the power to your HVAC system back on using the master switch or at the circuit breaker box.



Boiler or radiant system with air handler and conventional cooling or heat pump. RT+ RT-RC G W1 W2 AC+ O/B AC-Air handler

Air conditioner or

Heat pump

Note:

Do not jumper RC or RH

W2 R W1

Boiler

---- Stage 2 heat and

····· *Reversing valve for heat pumps only

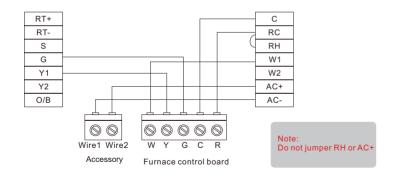
cool if applicable

Accessory devices

The T29 can control an accessory HVAV device like a humidifier, dehumidifier, or ventilation device from its AC terminals

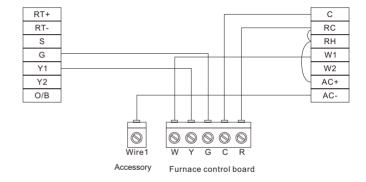
Note: You will need to configure the accessory device when you first power on your T29.

2-wire accessory (ventilator)



1-wire accesory

(ventilator)



T29 automatically connects Rc to AC- when 1-wire configuration is selected during accessory setup.



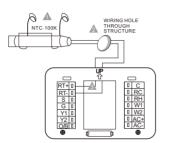
Warning: Damage may occur if accessory is connected to AC-

Wiring must comply with applicable codes, ordinances and regulations.

- 1. Wire the NTK100 Outdoor Sensor to the RT+/RT- terminals on the thermostat. If the lead wire provided with the NTC-100K is not long enough, run cable to a hole at the selected NTC-10K location. Color-coded,18-gauge thermostat wire is recom-mended. For an example of general wiring of the NTC-100K, see Fig. 2. Pigtail wiring can be used.
- 2. Mount the NTC-100K in its mounting clip.
- 3. Plug wiring hole using nonhardening caulk or putty.



Fig.1. Typical locations for outdoor sensor.



▲ Use appropriate mounting means for the type of structure.
▲ Plug wiring hole with non-hardening caulk or putty.
▲ RT+/RT- terminal location varies with model.

Fig. 2. Wiring diagram for the NTC-100K Outdoor Sensor to the thermostat.

Optional sensor

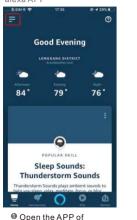
SASWELL NTC 100K Room Sensor With 3 Meter Wiring
*Used for outdoor temperature detection when there is water pump
protection.



Link Alexa

Required: The account of Tuya smart and AmazonAlexa must be the same.

Long press the reset button for 6s, Alexa said "Now in setup mode, follow the instructions on your alexa APP"



Amazon Alexa











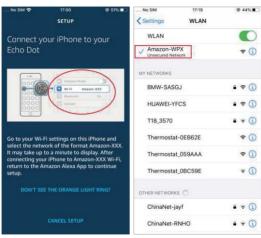
Add Device

Amazon Echo

@ Echo Dot Select your Echo Dot

@ 47% I





@ 47% I 17.12 SETUP Continue Echo Dot setup





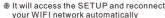
17:13

Find Amazon Device

"Your Echo Dot is ready"

Ocntinue





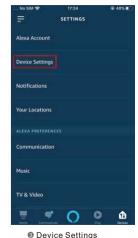


Link to Alexa successfully.

How to change Fahrenheit and Celsius





















No SIM 🖘

Lighting

Large

Small

Home Ap...

Home Ap.

Kitchen Appliance

Security

& Sensor

Exercise & Health

Others

17:29

Add Manually Auto Scan

117

(!)

@ 36% ■

411



Confirm indicator rapidly blink

a nlyoudian's Echo Dot Measurement Unit

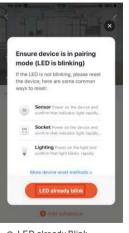












Only 2.4G Wi-Fi networks are supported, Confirm

Connecting

© Connecting successfully

O Done

Add Subdevice

• LED already Blink

66





Open to the contract of the

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

FCC Warning

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (1) This device must accept any interference received, including interference that may cause undesired operation.

NOTE 1: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.