WTS2000 User Manual
Programmable Wireless Thermostat

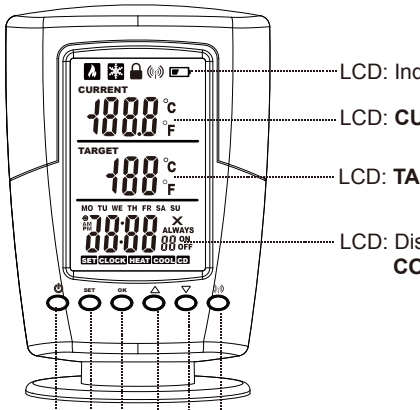
This new innovation Programmable Wireless Thermostat is intended for automatic control elctrical heating in winter/cold area or control electrical cooling devices in summer/hot area.

It consisted of 2 componets: a Remote Control unit with integrated tempreature sensor and a Plug in Socket unit.
(One remote thermostat control can be with multiple plug in sockets)

It will automatically turn on/off heating devices as your preset target temperature or preset time range,to maintain a stable room temperature in order to provide confort and save energy.

1.Product description

Remote thermostat control



LCD: Indicate working status

LCD: **CURRENT** temperature

LCD: **TARGET** temperature

LCD: Display **CLOCK**/**HEAT**/ **COOL** programs

Pairing button(((•)))

Down button(▽)

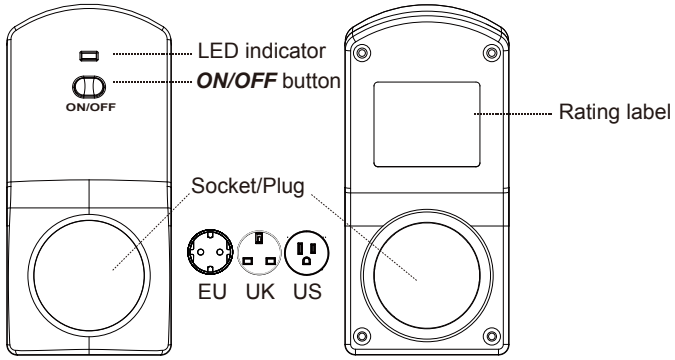
UP button(△)

OK button(**OK**)

SET button(**SET**)

Power button(⏻)

Plug in Socket



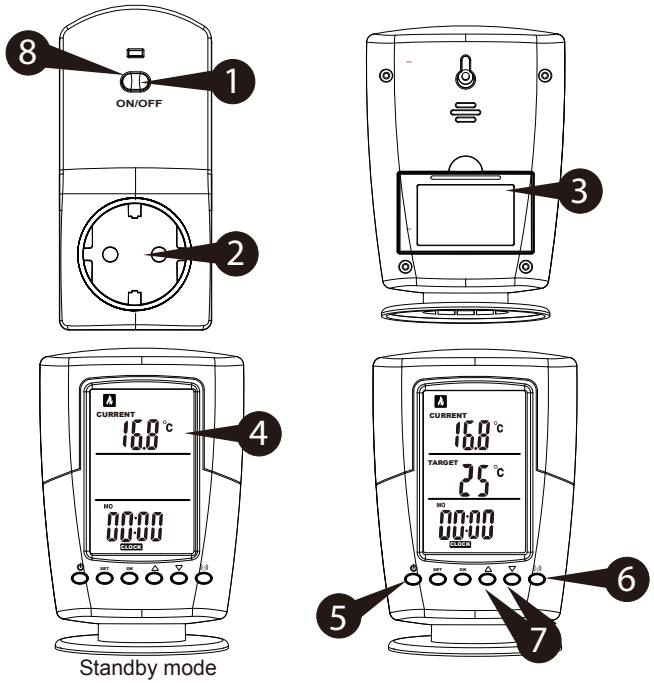
LED indicator

ON/OFF button

Rating label

Socket/Plug

2. Pairing code



Standby mode

1. Connect the plug in socket into home socket, and press ***ON/OFF*** button for 3 seconds. the LED indicator will be flashing, it is in pairing mode now.
2. Plug in your heating devices or cooling devices.
3. Remove the battery cover, and load into 2pcs*AA batteries observing the battery polarity, replace cover.
4. Now, the remote thermostat control is in standby mode. Only dispaly current temperature and CLOCK.
5. Press ***Power*** button to turn on this device, enter into standard heating mode.
6. Press ***Pairing*** button to send the pairing code at once. The LED indicator will be stop flash and firm lighting. It means the pairing is successful.
7. Press ***UP/DOWN b***utton to adjust the TARGET temperature
8. Press ***ON/OFF*** button to turn off plug in socket,then the remote thermosat control can't control it, you have to manually turn on plug in socket once again when you want to use it next time, then remote thermostat can control it.

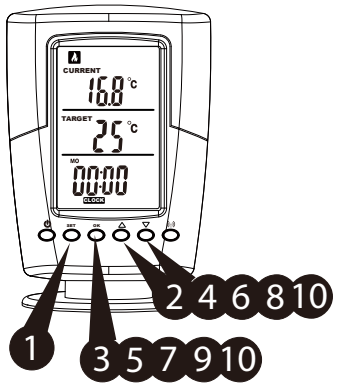
Remark:

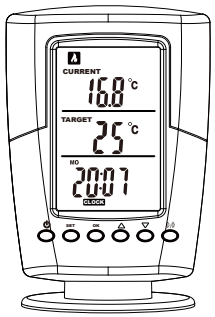
** After pairing successfully, don't need to do this pairing when you connect power next time or even the mains is cut off. The plug in socket will memorize the pairing code.*

** If you want to change new remote thermostat control, repeat the above steps using other remote thermostat control.*

** If need to add more plug in sockets in this system,repeat the above steps, one remote thermostat control can control unlimited plug in sockets.*

3. CLOCK Setting





Pic.1

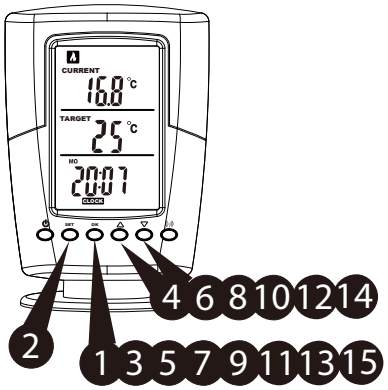
1. Press **SET** for 3 seconds,enter into setting mode
2. Press ***UP/DOWN***,set weekday (**MO-SU**)
3. Press ***OK***
4. Press ***UP/DOWN***,choose 12/24HR
5. Press ***OK***
6. Press ***UP/DOWN***,set the hour
7. Press ***OK***
8. Press ***UP/DOWN***,set the minute
9. Press ***OK***,second set to 0
10. Press ***UP/DOWN***,set temperature unit °C/°F
11. Press ***OK***

For example, we set **CLOCK** as 20:07 at Monday(see Pic.1).

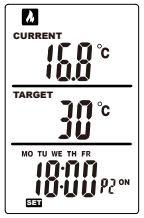
4. Specification

- Temperature range..... 0~60 °C/32~140 °F
- Temperature accuracy.....± 1 °C/±1.8 °F
- Current Temp. Resolution.....0.1 °C/°F
- TARGET Temp. Resolution.....1 °C/°F
- Power supply.....3V(2pcs* AA 1.5V)
- Max.Range.....20 meters in open land
- Transmission Frequency.....433.92Mhz
- Remote unit demension.....124x82x42mm
- Remote unit Net weight.....121g
- New design.....Wall mount holder & Table stand
- Max.current/Load.....230V/16A/3680W (EU)
.....230V/13A/3250W (UK)
.....120V/15A/1800W (US)
- Plug in socket dimension.....132x62x76mm
- Plug in socket Net weight.....127g

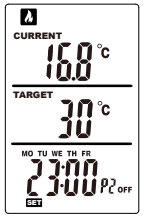
5. Program setting



1. Press **OK** for 3 seconds,enter into P1~P8 program setting
2. Press ***SET***,switch between P1~P8, for example we choose P2
3. Press ***OK*** ,TARGET is flashing
4. Press ***UP/DOWN***,set the TARGET value
5. Press ***OK***
6. Press ***UP/DOWN***,choose(**MO,TU,WE,TH,FR,SA,SU,MO-FR, MO-SA, SA-SU, MO-SU**)
7. Press ***OK***
8. Press ***UP/DOWN***,set hour of **P2 ON**
9. Press ***OK***
10. Press ***UP/DOWN***,set minute of **P2 ON**
11. Press ***OK***
12. Press ***UP/DOWN***,set hour of **P2 OFF**
13. Press ***OK***
14. Press ***UP/DOWN***,set minute of **P2 ON**
15. Press ***OK,*** back to program switching interface, at this time, you can press ***SET*** button switch to P1, P3,P4,P5,P6,P7,P8, repeat above steps to set other programs.



Pic.2



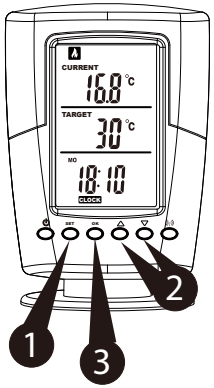
Pic.3

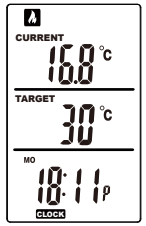
For example, we set as **30°C,MO-FR,18:00~23:00,**show in Pic.2 and Pic.3 It means, from Monday to Friday, 18:00 to 23:00, **TARGET** temperature change to 32°C,in other time, keep in 25°C(**Standard heating mode,see Pic.1**)

Remark:

- ***P1~P4****, it is period for* ***HEATING, P5~P8****, it is period for* ***COOLING***
- *During setting, if you don't want to set, press* ***POWER*** *button to exit.*
- *During setting, if no operation for 10 seconds,automatically save and exit.*

6. Turn on/Turn off P1~P8 programs





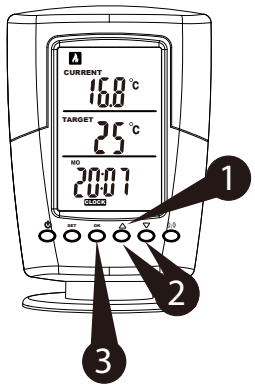
Pic.4

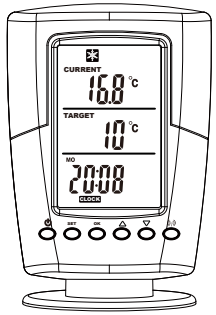
1. Press **SET**, enter programming ON/OFF selection, ON or OFF(default) symbol is flashing.
2. Press ***UP/DOWN*** to select the ON,or OFF.

   ON: turn on all programming at once,**P** display next to the time,the P1~P8 program is working(see Pic.4).

   OFF: turn off all programming at once,**P** disappear, only standard heating or cooling is working.
3. Press ***OK***

7. How to switch Heating/Cooling mode





Cooling mode

1. Press ***UP*** for 3 seconds,enter selection between heating (default) and cooling mode
2. Press ***UP/DOWN***,select Flame( ) or Snow symbol( ) Flame represents HEATING mode Snow represents COOLING mode
3. Press ***OK***

8. Working principle

Heating Mode:

1. When **CURRENT< TARGET**, it will be in ON status,the flame symbol ( )will display in LCD,turn on connected heaters,start to warm the room, so the room temperature is rising.
2. As current temp. rising, **CURRENT=TARGET**, it will be in OFF status, the flame symbol( )will disappear,remote thermostat will send OFF commands to turn off all connected heaters.
3. The current temperature will be decreasing, when current temp. decreased **1°C/1.8°F**, it will turn on all connected heaters once again, then infinite loop.

So in the **HEATING** mode, remote thermostat control will automatically keep the room temp. in below range:

Target Temp.-1°C/**1.8°F** ≥ ***Room Temp.*** ≥***Target Temp.***

Cooling Mode:

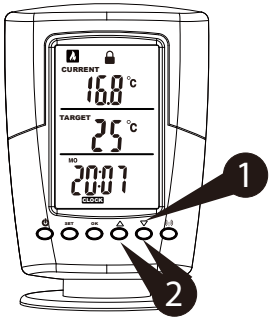
1. When **CURRENT> TARGET**, it will be in ON status,the snow symbol ( )will display in LCD display,turn on connected cooling devices, start to cool down the room, so the room temperature is decreasing.
2. As current temp. rising, **CURRENT=TARGET**, it will be in OFF status, snow symbol( )will disappear from LCD display,remote thermostat will send OFF commands to turn off all connected cooling devices
3. The current temperature will be rising, when current temp. increased **1°C/1.8°F**, it will turn on all connected cooling devices once again, then infinite loop.

So in the **COOLING** mode, remote thermostat control will automatically keep the room temp. in below range:

Target Temp. ≤ ***Room Temp.*** ≤ ***Target Temp.+1***°C/**1.8°F**

9. Other functions

1. **Children Lock**
   In any mode(except standby mode), child lock will be activated if no activity for 10 minutes, the child lock symbol( ) will appear in the top of LCD display. Press ***DOWN*** button for 3 seconds to disengaged child lock.
2. **Reset**
   During heating/cooling mode, Press ***UP&DOWN*** button at the same time for 3 seconds. The green backlight will flash 3 times, all setting will be deleted, and back to factory setting.



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FCC Warning:
FCC ID: 2AQQ7-WTS2000
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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.

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter