

TS-2000 User Manual Programmable Wireless Thermostat

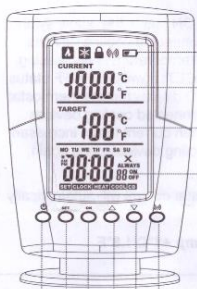
This new innovation Programmable Wireless Thermostat is intended for automatic control electrical heating in winter/cold area or control electrical cooling devices in summer/hot area.

It consisted of 2 components: a Remote Control unit with integrated temperature 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 comfort and save energy.

1. Product description

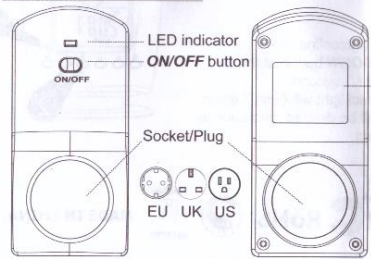
Remote thermostat control



- LCD: Indicate working status
- LCD: CURRENT temperature
- LCD: TARGET temperature
- LCD: Display CLOCK/HEAT/COOL programs

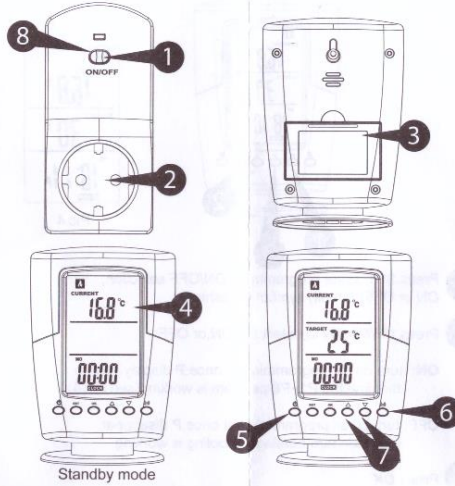
- Pairing button ()
- Down button (▾)
- UP button (▴)
- OK button (OK)
- SET button (SET)
- Power button ()

Plug in Socket



- LED indicator
- ON/OFF button
- Rating label
- Socket/Plug
- EU UK US

2. Pairing code

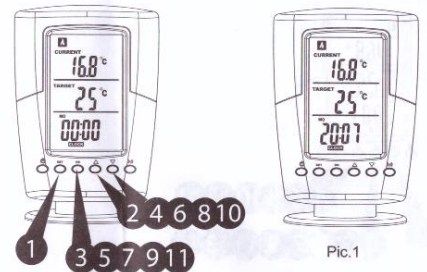


- 1 Connect the plug in socket into home socket, and press **ON/OFF** button for 3 seconds, the LED indicator will be flashing, it is in pairing mode now.
- 2 Plug in your heating devices or cooling devices.
- 3 Remove the battery cover, and load into 2pcs*AA batteries observing the battery polarity, replace cover.
- 4 Now, the remote thermostat control is in standby mode. Only display 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 stop flash and firm lighting. It means the pairing is successful.
- 7 Press **UP/DOWN** button to adjust the TARGET temperature
- 8 Press **ON/OFF** button to turn off plug in socket, then the remote thermostat 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



- 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).

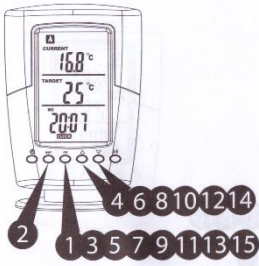
4. Specification

- 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 dimension..... 124x82x42mm
- Remote unit Net weight..... 121g
- New design..... Wall mount holder & Table stand
- Max. Rating 230V/16A/3680W (EU)
- 250V/13A/3250W (UK)
- 120V/15A/1800W (US)

Danger!!!
Please don't exceed max rating.

- 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 OFF
- 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



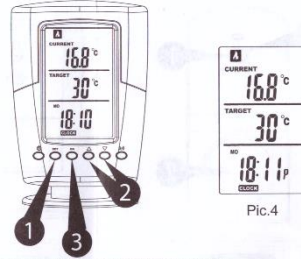
Pic.3

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).

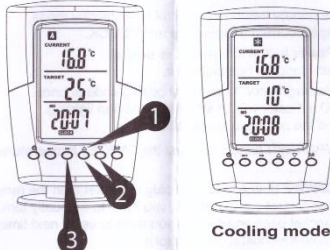
OFF: turn off all programming at once, P disappear, only standard heating or cooling is working.

- 3 Press **OK**

Remark:

When P1~P8 program is working, you can't change the TARGET temperature in that time range, because it is your preset value in P1~P8 programs. Only can change the TARGET temperature when it is not in P1~P8 time range or P1~P8 is not working.

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, 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.

