DIGITEN

# USER MANUAL


## Wireless Thermostat

## WTC100 WTC200

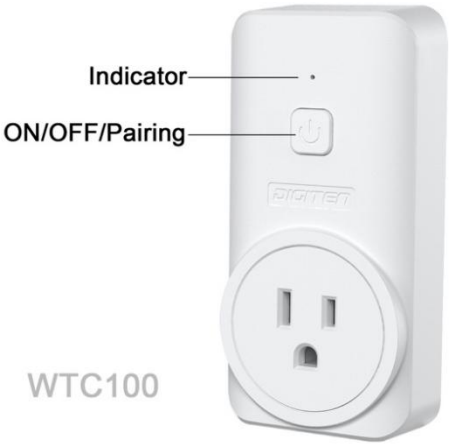
www.digit-en.com service@digit-en.com

## FEATURES

• Easy to set with memory function
• Plug and play, work with 100-240V AC
• Display current temperature
• Display set temperature (run temperature and stop temperature)
• Automatic cooling or heating
• Manually turn on / off function
• °C / °F can be switched
• High/low temperature alarm
• Memorize all the setting value
• Low battery warning
• Cooling delay protection
• Portable design, held in the hand / wall mounted
**More than two sets of equipment will not interfere each other!**

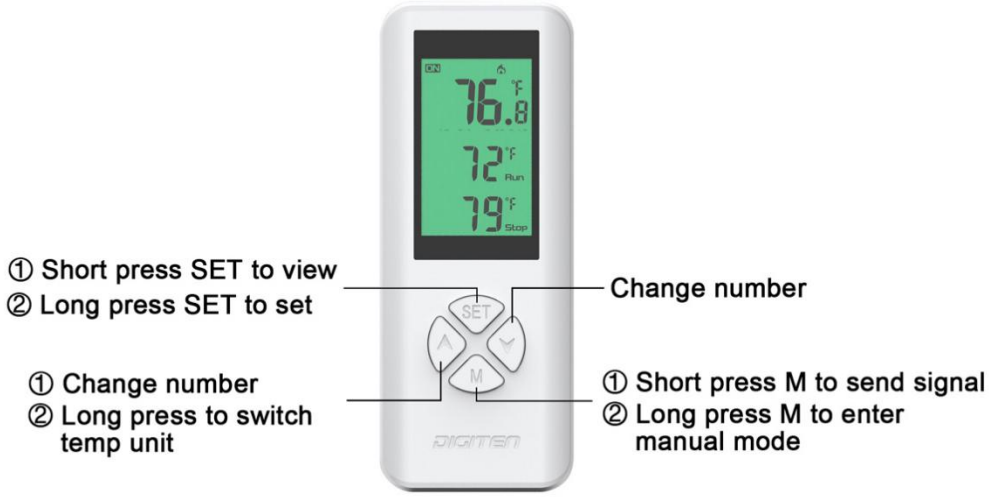
## Get to know this device

### Receiver

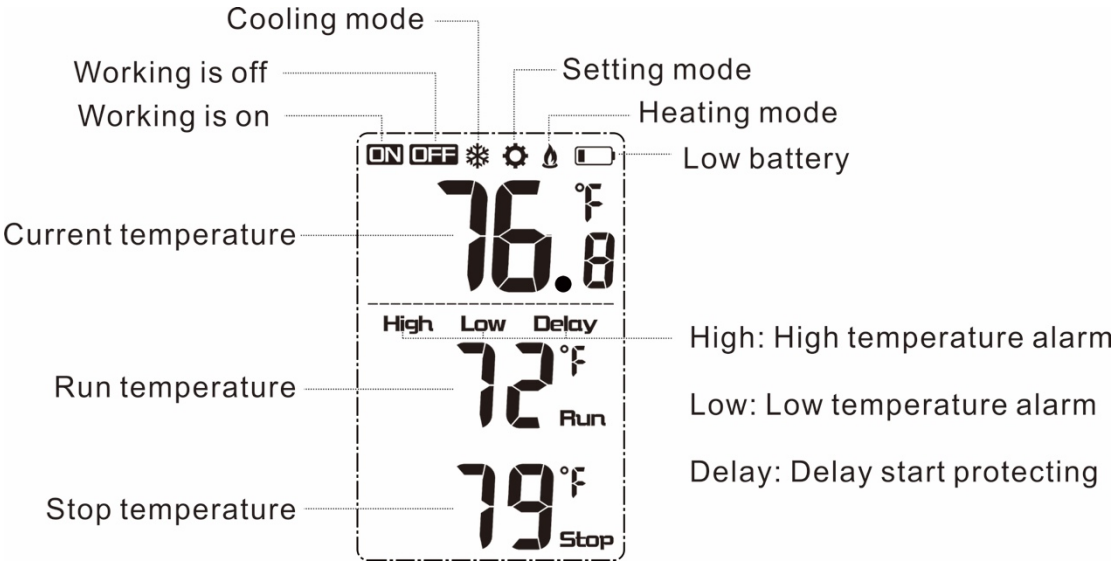




### Remote controller




## LCD display




## Specifications

| | WTC100 | WTC200 |
|---|---|---|
| Receiver voltage requirement | 100-240V AC | |
| Load capacity | 100-240VAC 13A,<br>1500W@110VAC, 2500W@220VAC | |
| Remote batteries requirement | 2PCS 1.5V AAA, standby for 6 months | |
| Transmission distance | 100m（open space） | |
| Measuring temperature range | -10.0 ° C ~ 80 ° C, 14 ° F ~ 176.0 ° F | |
| Control temperature range | 0°C~70°C, 32°F~158.0°F | |

| | | |
|---|---|---|
| Measure temp Resolution | ±0.1°C /°F | |
| Control Precision | ±1°C /°F | |
| High and low temperature alarm | 0-80°C | |
| Remote control refresh frequency | 20 Seconds | |
| Temperature probe | Built in remote | Receiver with 2m/6ft NTC probe |
| | | |

## Put in or replace the Battery

1.2 AAA size batteries are needed for the remote. Make sure they are put in right direction

2.When the low battery  warning appears, please change batteries.

## Pair/remove with the remote

In generally, we have already paired the remote it come with. If the remote can't connect controller, please repair according to the method below:

1, Press and hold  button until the LED flashes, release the button, then press M button on the remote control to pair the receiver.

2, Press and hold  button, the LED flashes 5 times, then flash 2 times quickly before release the button. All remotes will be unpaired. If you repair the remote, please repeat the step 1.

Note： A remote can control multiple receivers.

## Change the temperature unit

Press the  button for 3 seconds to switch the temperature unit.

##  Cooling mode

Set the temperature value RUN>STOP, the controller is in cooling mode, and the LCD displays the COOLING symbol

1.1 When the CURRENT  temperature value is higher than the RUN value, the cooling operation starts, the relay outputs, the LCD displays  , and the green light on the receiver is on. When the CURRENT value drop to the STOP value, the cooling operation stops, and the LCD displays  . The green light on the receiver is off.

1.2 When the CURRENT temperature value is less than the RUN value, the

cooling operation stops, the relay has no output, the LCD displays OFF, the green light on the receiver is off. When the CURRENT value rises to the RUN value, the cooling operation starts, the LCD displays ON , the green light on the receiver is on.

## Heating mode

Set the temperature value RUN<STOP, the controller is in heating mode, and the LCD displays the HEATING symbol

2.1 When the CURRENT temperature is less than or equal to the RUN value, the heating operation starts, the relay outputs, the LCD displays ON, the green light on the receiver is on, when the CURRENT rises to the STOP value, the heating operation stops, the LCD displays OFF, the green light on the receiver is off.

2.2 When the CURRENT temperature value is greater than the STOP value, the heating operation stops, the LCD displays OFF, the green light on the receiver is off, when the CURRENT temperature drop to the RUN value, the heating work starts, the LCD displays ON, the green light on the receiver is on.

## High and low temperature alarm

When the CURRENT temperature is greater than the HIGH value or less than the LOW value, the remote controller will alarm and the symbol on the LCD will flash. Press any key to stop the sound, and the symbol continues to flash until the setting value is changed or CURRENT temperature value returns to the alarm range.

If the transmitter High Low is not powered, the receiver will continue to work according to the High Low previous setting value until 5 minutes.

## Delay function

Damage can occur if the compressor restarted too soon after shutdown. This feature forces the compressor to wait for a few minutes before restarting.

During the waiting time, the display will flash Delay, When the safe waiting time has elapsed, the display stop flashing and the compressor turns on

## How to set

1. Press and hold the SET button until the corresponding value flashes. At the same time, the ⚙ is displayed on the LCD. Press the or ▼ button to change the number. Short press SET button to set next valve, or ▲ long press the SET button to exit and save. use this method to set the RUN /STOP /Delay/ HIGH /LOW value respectively. Or after setting all the parameters, press and hold the SET button to exit and save. When no operation time is greater than 30 seconds in the setting state, the exit setting mode is not saved.

NOTE, in the setting state, long press the UP or DOWN button to continuously to change the setting value

2. Example

   In cooling mode, you want to keep room temperature at 77F， High alarm at 88F, Low alarm at 70F

   1) Long press SET button until the display appears on ⚙, and the setting value flash.
   2) Press ▲ or ▼ set the RUN at 77F, STOP is 75F.
   3) Short press SET button to set High and Low value.
   4) Long press SET to save and exit.

## Restore factory settings

In the case of POWER OFF, press and hold the SET button to power on at the same time. After a long beep, all values are restored to the factory settings.

## Default settings

| Setting | Function | Setting range | Default value |
|---|---|---|---|
| Temp unit | Temperature unit | C/F | F |
| Run | Run temperature value | 0-70C | 20C |
| | | 32-158 | 68F |
| Stop | Stop temperature value | 0-70C | 28C |
| | | 32-158F | 82F |
| High | High alarm value | 0-70C | 70C |
| | | 32-158F | 158F |
| Low | Low alarm value | 0-70C | 0C |
| | | 32-158F | 32F |
| Delay | Delay protecting time | 0-10 minutes | 0 |

## Manual turn on/off function

Press and hold the M button for 3 seconds, the controller switches to the manual mode, Always on or Always off will appear on the display. Short press the M key to turn on/off the device. Long press the M key to exit the manual control function.

Note: Short press  on the receiver to turn on/off loading until it receive command from transmitter.

## Troubleshoot

1, Current temperature is incorrect.
The remote update measuring value with 20 second a time. And if you use it for the first time, please wait for about 5 minutes before the measurement is stable.

2, Current temperature reach to the RUN value, but the controller don‘t work。

The remote send data to the receiver per 20 seconds, so please wait for more than 20 seconds
3, Heating/cooling device is started too frequent
Please increase the difference between RUN and STOP

4, others
4.1, probe open circuit prompt: LCD current value shows Err
4.2, the measured temperature exceeds the measurement range, the current value shows HH (high temperature), LL (low temperature)

WARRANTY
The DIGITEN products are guaranteed to the original owner for one year against defects in workmanship and materials. Please contact us:
service@digit-en.com
www.digit-en.com/support

**WARNING**
☆Do Not Overload
This unit works with load up to 14A. If load is larger than 14A, it would become very hot even burn the thermostat. That is very dangerous.
☆ The probe is waterproof, but controller is not waterproof, so don’t get water into the controller and outlet.

**§ 15.19 Labelling requirements.**
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.

**§ 15.21 Information to user.**
Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**§ 15.105 Information to the user.**
**Note:** 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.