DIGITEN

USER MANUAL

Wireless Thermostat
WTC100
WTC200
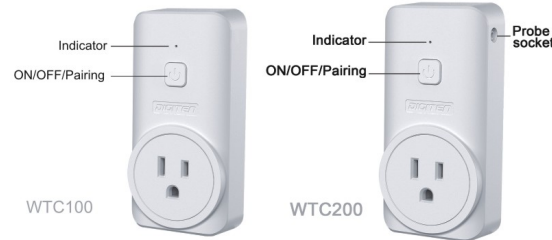
www.digit-en.com   service@digit-en.com

FEATURES

• Easy to set memory function
• Plug and play, work at 100-240V AC
• Displays current temperature
• Displays stop and start temperature settings
• Automatic cooling or heating
• Manual on / off function
• Switch between °C / °F
• High/low temperature alarm
• Memorize all the setting value
• Low battery warning
• Cooling delay protection
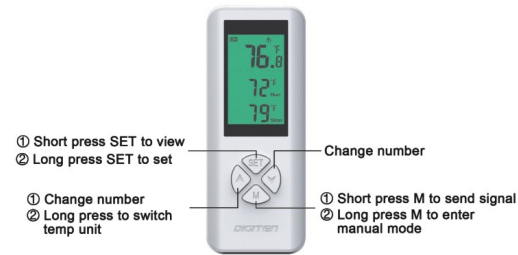• Portable design, handheld / wall mounted
Multiple sets of equipment will not interfere with each other!
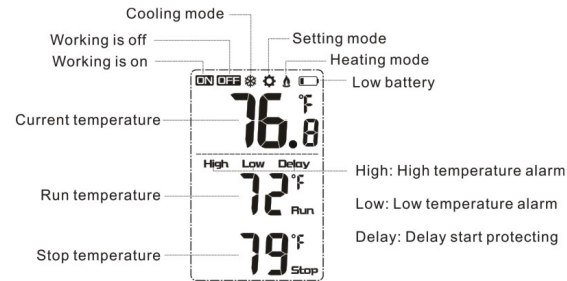
Get to know this device

Receiver

Indicator
ON/OFF/Pairing

WTC100

Indicator
ON/OFF/Pairing
Probe socket

WTC200

Remote controller

① Short press SET to view
② Long press SET to set

Change number

① Change number
② Long press to switch temp unit

① Short press M to send signal
② Long press M to enter manual mode

LCD display

Cooling mode
Working is off
Working is on
Setting mode
Heating mode
Low battery

Current temperature

76.8 °F

High   Low   Delay

Run temperature

72 °F Run

High: High temperature alarm

Low: Low temperature alarm

Delay: Delay start protecting

Stop temperature

79 °F Stop

Specifications

	WTC100	WTC200
Operating voltage	100-240V AC	
Load capacity	100-240VAC 15A, 1650W@110VAC, 3300W@220VAC	
Remote batteries required	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	
Activation temperature range	0°C~70°C, 32°F~158.0°F	
Temperature accuracy	±0.1°C /°F	
Control Precision	±1°C /°F	
High and low temperature alarm	0-80°C/32°F-176°F	
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 inserted in the right direction
2.When the low battery warning appears, please change batteries.

Pair/un-pair with the remote

We paired the remote with the receiver. If the remote can't connect to the receiver, please repair according to the method below:

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

2, Press and hold ⏻ button on the receiver until 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： One remote can control multiple receivers(WTC100).

Change the temperature unit

Press the ⋀ button for 3 seconds to switch the temperature units.

Cooling mode ❄

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

1. When the CURRENT temperature is higher than the RUN value, the cooling operation starts, the relay outputs, the LCD displays ON, and the green light on the receiver turns on. When the CURRENT value drops below to the STOP value, the cooling operation stops, and the LCD displays OFF. The green light on the receiver turns off.

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

Heating mode ♨

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

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

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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 turns off, when the CURRENT temperature drops to the RUN value, the heating work starts, the LCD displays ON, the green light on the receiver turns on.

High and Low temperature alarm

When the current temperature is higher than the High alarm value or lower than the Low alarm value, the remote control will alarm and the HIGH LOW symbol on the LCD will flash. Press any key to stop the sound, the HIGH LOW symbol continues to flash until the set value is changed or the Current temperature value returns to the alarm range.

●If the remote control is powered off, the receiver will continue working at the previous setting for 5 minutes.
●The Low alarm and High alarm are not equal to the Run temperature and Stop temperature.
●The High alarm and Low alarm are turned off by default.
1.To turn on the alarms when the alarms are off:
●Press the SET button to the High/Low page
●Press and hold the SET button for about 3s
●Press the DOWN/UP button to set the High/Low alarm velue you desire on the High/Low page.
2.To turn off the alarms when the alarms are on:
●Press the SET button to the High/Low page
●Press and hold the SET button for about 3s
●Keep pressing the UP/DOWN button until the OF is displayed, the High/Low alarm will be turn off.

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 stops 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 value, or long press the SET button to exit and save. Use this method to set the RUN/STOP/Delay/HIGH/LOW value respectively. After setting all the parameters, press and hold the SET button to exit and save. If there is no action taken for 30 seconds, setting mode will be exited and any change will not be 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 77℉, High alarm at 88℉, Low alarm at 70℉.
1) Long press SET button until ✿ appears on the display and the setting value flashes.
2) Press ⋀ or ⋁ to set the RUN at 77℉, STOP is 75℉.
3) Short press SET button to toggle between High and Low value.
4) Long press SET to save and exit.

Restore factory settings

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	℃/℉	℉
Run	Run temperature value	0-70℃	20℃
		32-158℉	68℉
Stop	Stop temperature value	0-70℃	28℃
		32-158℉	82℉
High	High alarm value	0-70℃	70℃
		32-158℉	158℉
Low	Low alarm value	0-70℃	0℃
		32-158℉	32℉
Delay	Delay protecting time	0-10 minutes	0

Manual 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 button to turn on/off the device. Long press the M button 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 updates the temperature value every 20 seconds. If you are using it for the first time, please wait for about 5 minutes before the measurement is stable.

2.If the current temperature reaches the RUN value, but the power does not turn on, re-pair the remote with the device.

3.If the heating/cooling device is starting and stopping too frequently, please increase the difference between RUN and STOP.

4.Others
4.1 If the probe socket is open: LCD current value shows Err
4.2 If 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