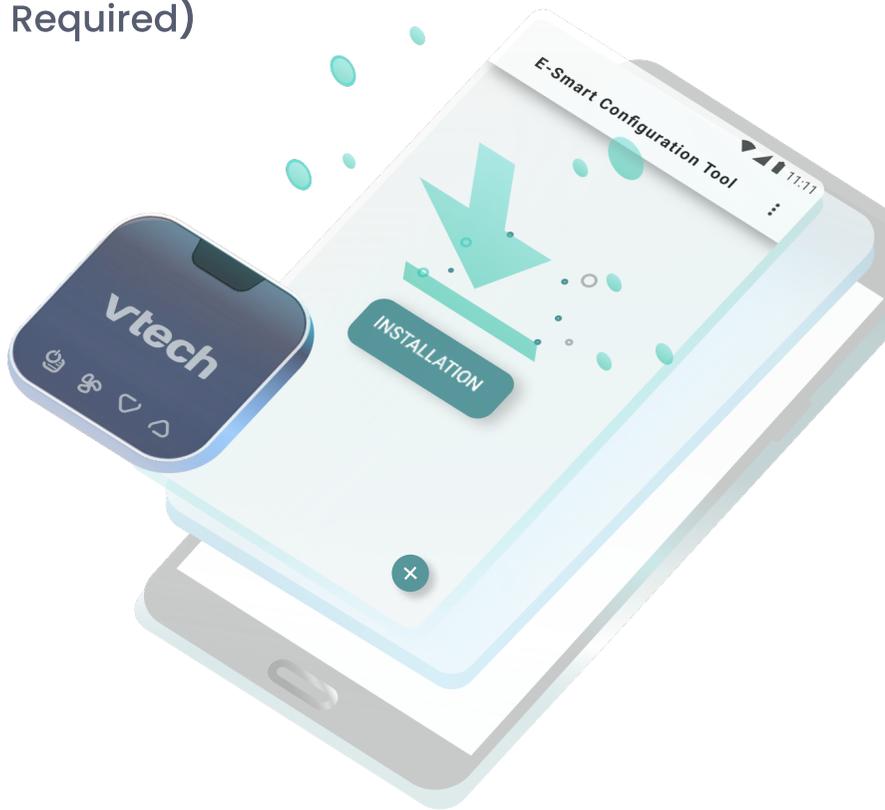


# vtech®

## E-SMART THERMOSTAT W960

### E-SMART Configuration Tool

(Android Required)





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# 1. Ready your thermostat to do configuration...

You will see the menu options of **thermostat** in the Engineering mode:



Enter "System Setting" by pressing  button.

You can always access the engineering mode by pressing and holding , , , for 10s.



Then select "System Configuration" by pressing  button.



Then select "Adv. Config via App" by pressing  button.



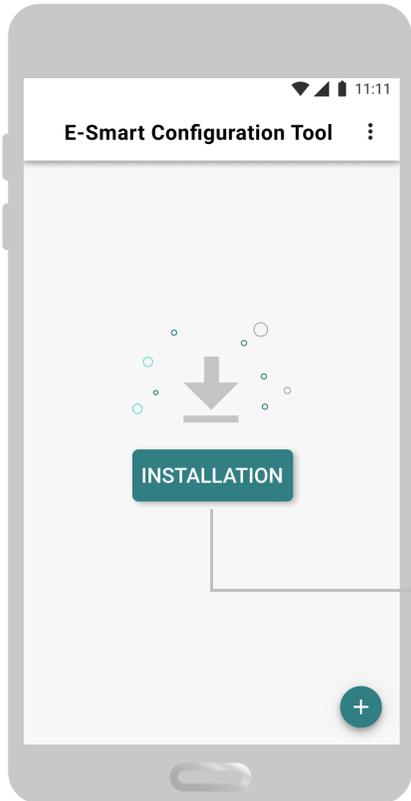
Thermostat will display "Plug cable for setup".



**NOTE:**

You should plug cable to connect both thermostat and your phone when you this app page to do the configuration.

## 2. Start configuration with EC Tool...

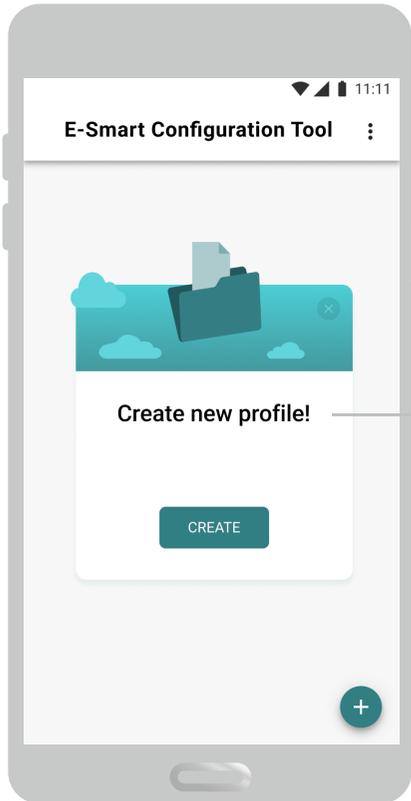


1. Download E-Smart Configuration Tool to your Android.

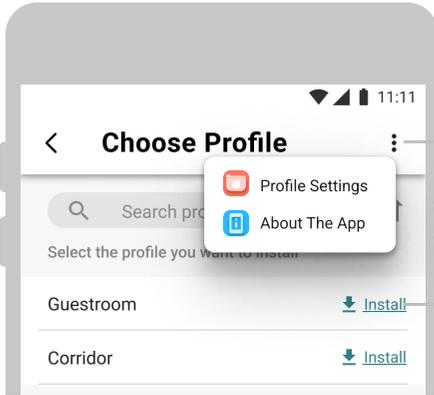
**NOTE:**

Make sure your phone setting is set to the right location that synchronized with atomic clock time before you do configuration.

2. Click the Installation button after open the app.

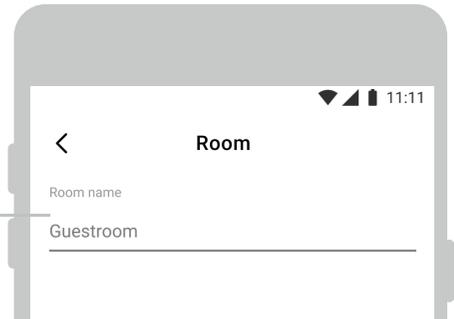


3. Pop up "Creat new profile"  
in first page when 1st launch  
to EC tool

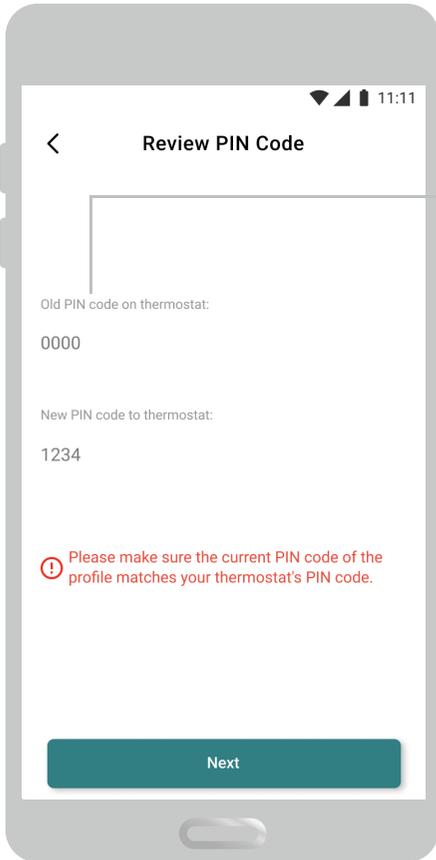


Optional: You can click "Profile settings" to edit or review the profile before installation.

4. Choose a profile to be installed for the room.

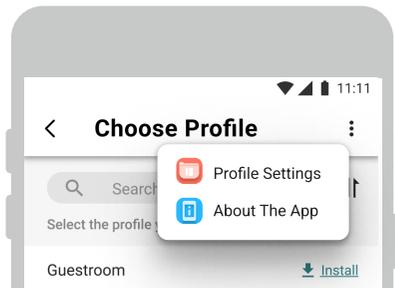


Input the room name is optional.



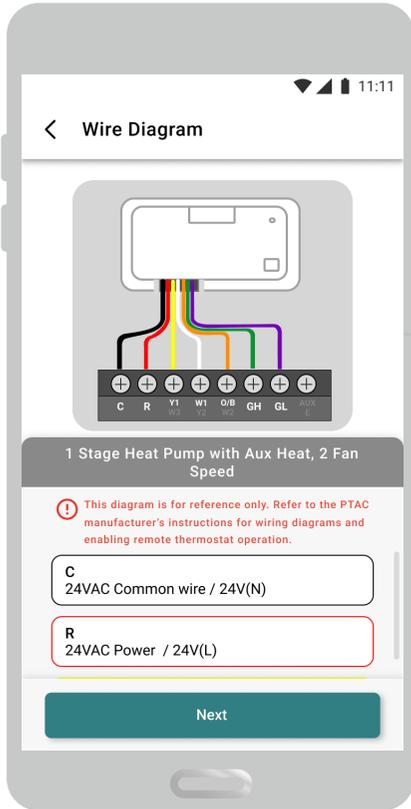
5. Review the current PIN code of the profile you have chosen and make sure it matches your thermostat's PIN code.

If you want to reset PIN code, go to “Profile setting”. Then select the profile you want to edit.



**NOTE:**

You should change the default PIN code to avoid unwanted users from accessing your thermostat management system.



6. Follow the wire diagram of the chosen profile to do wire configuration with the controller.



7. Click  on the page of showing “The room thermostat you select”.

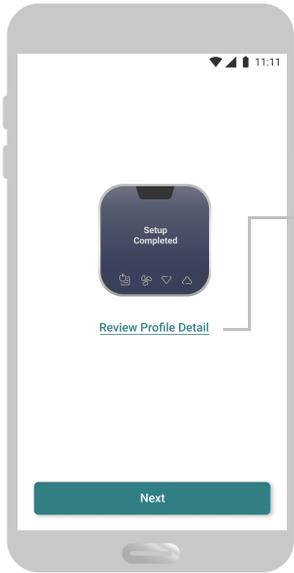
8. Connect your smart phone and your thermostat by inserting USB Type-C



9. Wait until you see “Ready to setup” on the display of thermostat

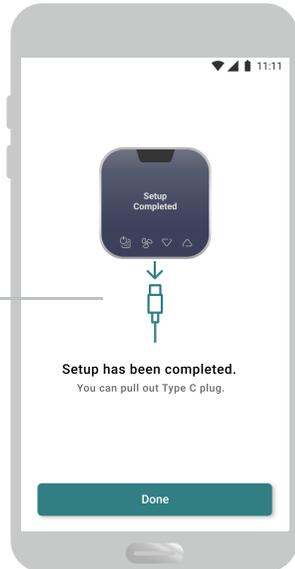
10. Setting up system. Please wait.



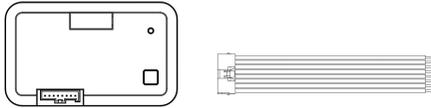


11. Press Review Profile Detail to review details of the profile you have chosen to install.

12. When you see "Set up Completed", you can pull out Type C cable.



## Wire Support Table of Profile Setting



Wire Colour	Conventional System	Heat Pump System
Black	C      24VAC Common wire / 24V(N)	C      24VAC Common wire / 24V(N)
Red	R      24VAC Power / 24V(L)	R      24VAC Power / 24V(L)
Yellow	Y1 or W3      First stage of compressor relay/ Third stage of heat relay	Y1      First stage of compressor relay
White	W1      First stage of heat relay/Aux heat relay	W1 or Y2      Aux heat/First stage of heat/ Second stage of compressor relay
Orange	O/B or W2      Not used / Second stage of heat relay	O/B      Changeover valve relay
Green	GH      Fan relay, high	GH      Fan relay, high
Purple	GL      Fan relay, low	GI      Fan relay, low
Brown	AUX      Occupancy out	AUX or E      Occupancy out / Emergency heat

## Technical Set up Table of Profile Setting

Option	Default	
Wire Diagram	The system are "conventional system" and "heatpump system". For different wire combination, refer to the manual "Controller Wiring Set Up".	/
Conventional / Heat pump system	/	/
Changeover valve	Will show it when O/B Changeover valve relay has been used. O = Energized in cooling B = Energized in heating	B
Compressor short cycle	ON = Turns 3 minute delay on OF (OFF) = Removes the delay	ON
Scale	F = Fahrenheit C = Celsius	F
Room temp. calibration	This feature allows the installer to change the calibration of the ambient room temperature display. For example, if the thermostat reads 72 degrees and you would like it to read 74 then select +2 °F.  (options: 4 °F to -4 °F)	0 °F

## Technical Set up Table of Profile Setting

Option	Default
1st Stage Differential (Heat)	Select the difference between temperature setpoint and room temperature before 1st STAGE heating is initiated.  (options: 0.5°F, 1°F, 1.5°F)
2nd Stage Differential (Heat)	Select the difference between 1st STAGE heating and 2nd STAGE heating initiation.  (options: 1°F, 2°F)
3rd Stage Differential (Heat)	Select the difference between 2nd STAGE heating, and 3rd STAGE heating initiation.  (options: 1°F, 2°F)
1st Stage Differential (Cool)	Select the difference between temperature setpoint and room temperature before 1st STAGE cooling is initiated.  (options: 0.5°F, 1°F, 1.5°F)
2nd Stage Differential (Cool)	Select the difference between 1st STAGE cooling, and 2nd STAGE cooling initiation.  (options: 1°F, 2°F)
Comfort setpoint	Comfort setpoint is the comfortable temperature that you want to set for the room (options: 55°F to 82°F)

## Technical Set up Table of Profile Setting

Option	Default
Auto mode deadband	A thermostat deadband is a temperature range in which neither heating nor cooling system turns on.  (options: 4°F, 6°F, 8°F, 10°F)
Auto mode setpoint (Max)	Select the maximum setpoint that a guest can adjust on thermostat during auto mode  (options: 75°F to 89°F)
Auto mode setpoint (Min)	Select the minimum setpoint that a guest can adjust on thermostat during auto mode  (options: 49°F to 73°F)
Heating mode setpoint (Max)	Select the maximum heating setpoint that a guest can adjust on thermostat.  (options: 75°F to 89°F)
Heating mode setpoint (Min)	Select the minimum heating setpoint that a guest can adjust on thermostat.  ( options: 49°F to 73°F)

## Technical Set up Table of Profile Setting

Option	Default
Cooling mode setpoint (Max)	<p>Select the maximum cooling setpoint that a guest can adjust on thermostat.</p> <p>(options: 75°F to 89 °F)</p>
Cooling mode setpoint (Min)	<p>Select the minimum cooling setpoint that a uest can adjust on thermostat.</p> <p>(options: 49°F to 73 °F)</p>
Override mode	<p>The default setting of override mode is ON, it allows the guest to override the temperature setpoint if they do not satisfied with the maximum/minimum setpoint you have set.</p>
Override time out	<p>Once your hotel guest press the special key controls on the thermostat to override the room temperature setpoint, the override mode will be time out base on this selection.</p> <p>In mins (options: 30mins, 45mins, 60mins, 75mins, 90mins, 105 mins, 120 mins.)</p>

## Technical Set up Table of Profile Setting

Option		Default
Protection setpoint	<p>The protection setpoint can help to protect your property during extreme hot or cold weather. Setting to ON, will allow you to set a minimum or maximum temperature limit preventing the room from freezing or overheating even if the thermostat is set to OFF.</p> <p>(Option: ON, OFF)</p>	OFF
Protection heating setpoint	Range: 41-48°F	45°F
Protection cooling setpoint	Range: 90-95°F	90°F
Operation	<p>Electric = Electric for thermostat control            Gas = Gas for system control</p>	Electric
Speed	<p>1 speed: On, Auto            2 speed: Auto, Low, High</p>	/
Key tone	ON, OFF	ON
Confirmation tone	ON, OFF	OFF
Error tone	ON, OFF	ON
Reset tone	ON, OFF	ON

## Technical Set up Table of Profile Setting

Option	Default	
Local occupancy sensor(PIR)	<p>You can choose to utilize the occupancy sensor to set back the room temperature while it is not being occupied.</p> <p>(Option: ON, OFF)</p>	ON
Incidental occupancy threshold	<p>Thermostat will enter occupied mode for a duration of this threshold selected here once the occupancy is detected. It allows ignoring incidental room visits.</p> <p>In mins (options: 0 mins to 30 mins)</p>	0 min(s)
Occupancy threshold	<p>Thermostat will enter unoccupied mode from occupied mode with this threshold selected.</p> <p>In mins (options: 30mins, 45mins, 60mins, 75mins, 90mins, 105 mins, 120 mins.)</p>	60 min(s)

## Technical Set up Table of Profile Setting

<b>Option</b>		<b>Default</b>
Night occupancy threshold	In mins (options: 0 mins to 30 mins)	0 min(s)
Night occupancy begin	In hours - 24-hour clock	21:00
Night occupancy end	In hours - 24-hour clock	9:00
Cycle minimizer	ON, OFF	ON
Unoccupied heating setpoint	/	62 °F
Unoccupied cooling setpoint	/	83 °F
Current PIN code on thermostat	/	0000
Reset PIN code to thermostat	/	/



[support@vtechhotelphones.com](mailto:support@vtechhotelphones.com)



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