

## Installing E-Smart W960 Thermostat - No APP

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# Amana

## PTAC or Heat Pump with Electric Heat



## BEFORE YOU BEGIN

If your Heat Pump configuration is something other than 1HP AuxH,2F or 1HP,2F you will need to utilize the EC Tool app to create a custom profile, then select "Adv. Config via App" in the TSTAT menu for the configuration.

## LET'S GET STARTED

### 1

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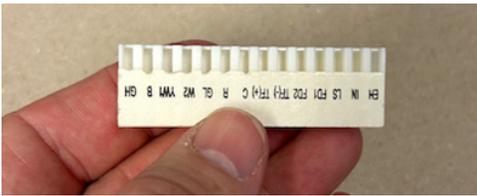
Power down the PTAC and remove the cover.



### 2

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Remove the 14-pin or 18-pin female housing from the control board.

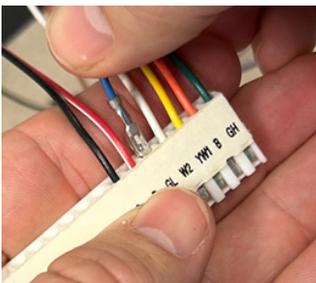


### 3

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Using Amana's remote thermostat wiring harness kit (Part: PWHK01C), insert the jumper wires into the appropriate slot on the female housing to support remote wired thermostat functionality.

Remote Wired Thermostat Pins: C, R, GL, W2, Y/W1, B, and GH



## 4

Using wire-nuts, attach the VTech Wiring Harness to the corresponding jumper wires for each pin on the Amana connector, then securely re-attach the wire housing to the control board.

### CONVENTIONAL 1H / 1C / 2Fan

VTech Controller Wire	Amana Terminal
Red (24VAC)	R
Black (Common)	C
Purple (Fan Low)	GL
Green (Fan High)	GH
White (W2 - Elec Heat)	W2 + B (Jump)*
Orange (4-Way/Rev)	N/A
Yellow (Y1-Compressor)	Y/W1
Brown (Occ Out)	N/A

### HEAT PUMP + Elec Heat / 2Fan

VTech Controller Wire	Amana Terminal
Red (24VAC)	R
Black (Common)	C
Purple (Fan Low)	GL
Green (Fan High)	GH
White (W2 - Elec Heat)	W2
Orange (4-Way/Rev)	B
Yellow (Y1-Compressor)	Y/W1
Brown (Occ Out)	N/A

\* Conventional unit with electric heat → VTech White wire should connect to both W2 and B/O wire terminals for heat to engage.

## 5

Plug the VTech Wiring Harness into the Controller module and press the connector firmly to ensure it snaps into place. Restore power to the PTAC/PTHP.



## 6

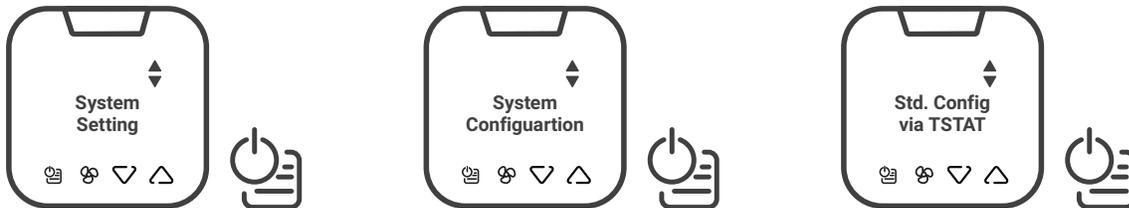
Modify the PTAC configuration settings to enable “Wired Thermostat” functionality:

1. Follow the installation instructions for your specific Amana model for accessing and modifying the configurations settings menu.
2. Modify setting for Configuration Code – C1 (Interface) to option L5 (Wired Thermostat).
3. Exit configuration mode.

## 7

How to provision the W960 Thermostat using a standard on-board configuration (without the EC Tool app):

1. Install the 4 AAA batteries into the thermostat, you will see “System Setting” in the display, tap the Power/Menu key to select “System Configuration”, then tap Power/Menu again to select “Std. Config via TSTAT”:



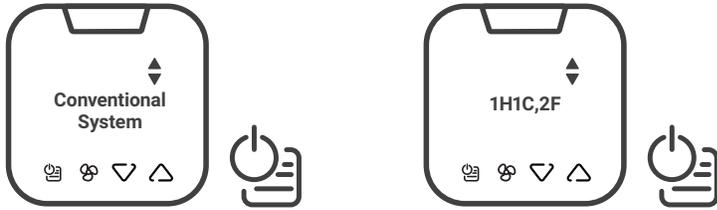
2. Use the Up/Dn arrows to select the type of PTAC you will be controlling. You can choose between “Conventional System” and “Heat Pump System”, then tap the Power/Menu key to select.



### Note

If you have a conventional system, continue to step 3. For Heat Pump systems, please move to step 5.

3. **Conventional System** - Select the on-board profile for a Conventional single stage heat and single stage cool system with 2 fan speeds.



**Note**

If your conventional PTAC is not a 1 stage heat and 1 stage cool system, you will need to utilize the EC Tool app to create a custom profile, then select "Adv. Config via App" in the TSTAT menu for the configuration.

4. Select "Start Configuration" to install the default settings profile.



Once setup complete is displayed, continue to step 8 to set up Occupancy and the System Clock.

5. **Heat Pump System** – Select the on-board profile for your Heat Pump System, then select between the 2 supported heat pump configurations:

1 stage heat pump with auxiliary heat and 2 fan speeds

or

1 stage heat pump with 2 fan speeds



**Note**

If your Heat Pump configuration is something other than what is selectable above, you will need to utilize the EC Tool app to create a custom profile, then select "Adv. Config via App" in the TSTAT menu for the configuration.

6. Select the proper Reverse/4-way Valve setting for your heat pump system. Typically, the setting for Amana Heat Pumps will be Energize in Heat (B). You should verify this setting in your PTAC manual.

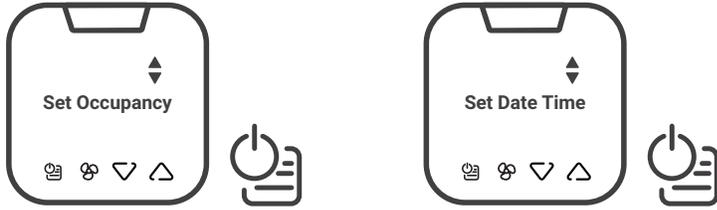


7. Select "Start Configuration" to install the default settings profile.

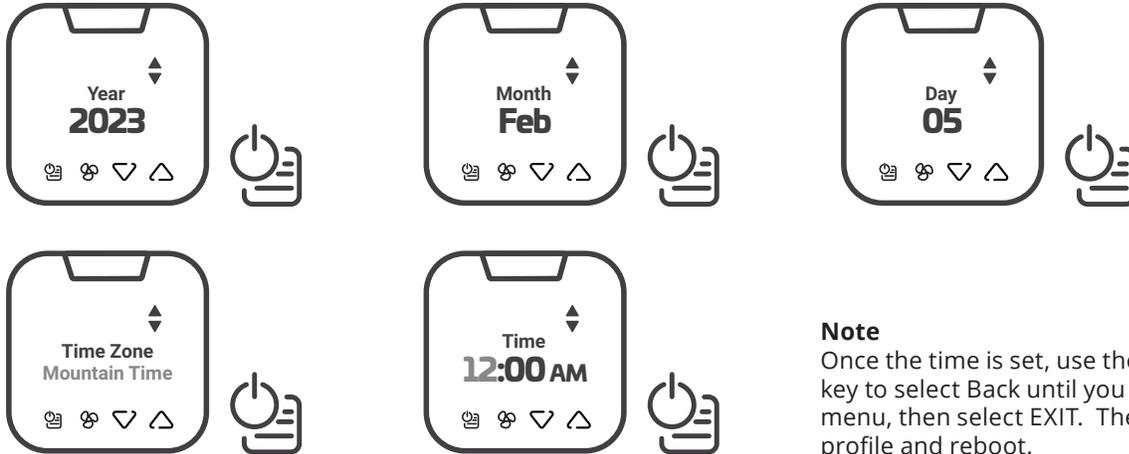


## 8

**Set Occupancy Detection and System Clock** - Once the profile is installed and "Setup Completed" has been displayed, you will set occupancy detection and the system clock:



Use Up/Dn arrows to change the selection, then Power/Menu to confirm. You will do this for Setting the date, time zone, and local time.



### Note

Once the time is set, use the up/dn and menu key to select Back until you reach the main menu, then select EXIT. The unit will save the profile and reboot.

## 9

Test your system-Tap any key to wake, then use UP/DOWN arrows to adjust the target temperature. Verify heat first, then cool.

### Note

Short-cycle protection will prevent the compressor from activating for ~3 minutes after power up.



## 10

Mount the controller to the PTAC chassis and secure the wiring. Cover/protect unused wire leads. Route the wires so they do not sag into the condensation pan. Finally, replace the cover to the unit.



Use the included mounting hardware to mount the thermostat wall plate to the wall, then secure the thermostat to the wall plate using the security screw. The installation is complete.



### Default Settings

Conventional 1H1C,2F

OPTION	DEFAULT
Compressor short cycle	On
Scale	F
Room temp. calibration	0°F
1st Stage Differential (Heat)	0.5°F
1st Stage Differential (Cool)	0.5°F
Comfort setpoint	74°F
Auto mode deadband	6°F
Auto mode setpoint (Max)	80°F
Auto mode setpoint (Min)	65°F
Heating mode setpoint (Max)	80°F
Heating mode setpoint (Min)	65°F
Cooling mode setpoint (Max)	77°F
Cooling mode setpoint (Min)	64°F
Override mode	ON
Override time out	30min(s)
Protection setpoint	OFF
Fan speed	2 speed
Key tone	ON
Confirmation tone	OFF
Error tone	ON
Reset tone	ON
Sensor (PIR)	ON OFF
Current PIN code on thermostat	0000
Reset PIN code to thermostat	/

### Default Settings

Heat Pump with Aux Heat, 2 Fan

OPTION	DEFAULT
Compressor short cycle	On
Scale	F
Room temp. calibration	0°F
1st Stage Differential (Heat)	0.5°F
2nd Stage Differential (Heat)	2°F
1st Stage Differential (Cool)	0.5°F
Comfort setpoint	74°F
Auto mode deadband	6°F
Auto mode setpoint (Max)	80°F
Auto mode setpoint (Min)	65°F
Heating mode setpoint (Max)	80°F
Heating mode setpoint (Min)	65°F
Cooling mode setpoint (Max)	77°F
Cooling mode setpoint (Min)	64°F
Override mode	ON
Override time out	30min(s)
Protection setpoint	OFF
Fan speed	2 speed
Key tone	ON
Confirmation tone	OFF
Error tone	ON
Reset tone	ON
Sensor (PIR)	ON OFF
Current PIN code on thermostat	0000
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### Default Settings

Heat Pump, 2 Fan

OPTION	DEFAULT
Compressor short cycle	On
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Sensor (PIR)	OFF
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