

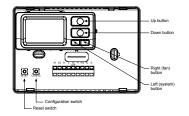
- rable
 Heat/2-Stage Cool Systems
 Heat Pump Systems
 splay With Backlight
 de Fahrenheit or Celsius
 ble with Gas, Oil, or Electric



Installation, Operation & Application Guide www.amana-ptac.com



Parts Diagram



Icon Descriptions



Important Safety Information

- WARNING! Aways but mel fower at the majo news supply before installing, cleaning, or removing

 **The hornotals is of AVAC applications only, do not use on vollages over 30 VAC.

 **De on other access on the minimal of gas where or system control to set oppositor, this will damage your thermostal
 and void your warrants,

 **The control of the control o

Package Contents/Tools Required Package includes: Amana® 2246007 thermostat on base, thermostat cover, wiring labels, screws and wall anchors, Installation, Operation and Application Guide
Tools required for installation CPIII with 31/6* bit, hammer, screwdriver

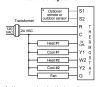


- MINOSTANT: The moutant installation must conform to local and national building and electrical cooks and conformances.

 A Note: Mout the thinministal stade for fire day on the floor 2 per conformance in the permitted on an outside wall, in 2 must be set of the conformance of the

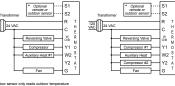
Wiring Diagrams

Heat/Cool Systems

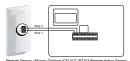


Single Compressor heat pump with electric backup

Dual Compressor heat pump with electric backup



Remote Sensor Installation (Optional)



Remote Sensor: (Shown: Optional ICM ACC-RT103 Remote Indoor S for outdoor sensor, order ACC-OD103.)

*Note: Remote or outdoor sensor reading can be displayed by simultaneously pressing the Down and SYS buttons.

Terminal Designator Descriptions

711111111		-uopuo		
	1st Cool	2 ND Cool	1st Heat	2 ND Heat
Heat/Cool	Y1, G	YI, Y2, G	W1, G*	W1, W2, G*
Heat Pump (One Compressor)	Y1, G, O	Y1, G, O	Y1, G, B	Y1, W2, G, B
Heat Pump (Two Compressors)	Y1, G, O	Y1, Y2, G, O	Y1, G, B	Y1, Y2, G, B
Electric Heat (Heat Pump Only)	N/A	N/A	W2, G	W2, G

The Amana* 2246007 thermostat is configurable for all systems. The configuration directly affects the outputs. Use the output chart to correctly configure and wire the thermostat to your system.

Configuration Mode

The configuration mode is used to set the Amana* 2246007 to match your heating/cooling system.

The Amana* 2246007 functions with heat pump, air conditioning, gas, oil or electric heat systems.

To configure the Amana* 2246007, perform the following steps:

- Remove the cover of the thermostat by gently pulling near one of the comer the top of the thermostat.
 Press the CONFIG button for 1 second while the Amana* 2246007 is in OFF mode.



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Press the up or down button to change settings within each screen



Press the right button to advance to the next screen. ... Note: Pressing the left button will return you to the previous screen.

To exit configuration mode, press the CONFIG switch for 1 second.

Configuration Mode Settings

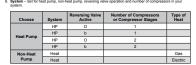
1stage Temperature Differential (1°F to 5°F) (0.5°C to 2.5°C)
 Set the number of degrees between your "setpoint" temperature and your "turn on temperature.

Press the up or down button to set differential value.

Press the right button to advance to the next screen.

. 2** Stage Temperature Differential (1*F to 5*F) (0.5*C to 2.5*C)
Set the number of degrees between when stage 1 turns on and when stage 2 turns o
Press the up or down button to set differential value.
Press the right button to advance to the next screen.

Staged Off Outputs
 Select whether the outputs for heating and cooling are satisfied simultaneously.
 I coughus staged off independently
 0 = outputs off simultaneously
 Press the up of own butlon to set.
 Press the up of own butlon to set.



Press the up or down button to select.

Press the right button to advance to the next screen.

Auxiliary Delay ON – (0-30 minutes)
Set the delay time in minutes for auxiliary heat to be locked out after a call for second stage. This exits awarings feature is used to temporarily lock out auxiliary heat devices, allowing just heat pump to by to staffly what call.
Pless the up or down business to select.
Pless the right outside to advance be the next screen.



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Maximum Heat Setpoint (45°F to 90°F) (7°C to 32°C)
Adjust to control the maximum heat set temperature allowed.



Room Temperature Offset (+9°F to -9°F) (+4.5°C to -4.5°C)
Adjust to calibrate displayed room temperature to match actual

A Note: When not set to 0, 9 will display.

Press the up of down button to select.

Press the pright button to advance to the next screen.

Maximum Cycles Allowed Per Hour (-, 2-6)
 --= as many as needed, 2-6 = maximum cycles/hour
 Press the up or down button to select.
 Press the right button to advance to the next screen.

1. Temperature Sensor (1-3)
1. Only on-board sensor determines room temperature.
1. Only on-board sensor determines room temperature.
2. Cohy remote sensor determines room temperature.
3. Average temperature of on-board and remote sensor.
4. Motic: #there is no remote sensor, option 1 must be selected. Press the up or down button to select.
Press the up or down button to select.

The press the right button to advance to the next screen.

Cooling Fan Delay Off Time (0, 30, 60, 90 seconds) Select the fan purge time for cooling. Press the up or down button to select. Press the right button to advance to the next screen.

Mode of Operation

Mode of Operation

The Americ' 224297 is in soil deripology, 2 stage had 2 stage and thermodel 1 functions with air conditions, had pring up all of deficie had pytime An Acades serior can be used to market the adultion temperature. The demonstrate office the health goalphase when the norm imperature is before the other three demonstrates in the health goalphase have the norm imperature is before the other three demonstrates and the serior demonstrates are demonstrated and the serior demonstrates are demonstrated and the serior demon

When he norm throughouth is greater than the set cost temperature (by the differential temperature); the cooling When he norm throughouth is greater than the set cost temperature (by the differential temperature); the cooling will not let be compressed come on the dimiture after it turns of. This protectly your compressor. It that he amount 2008-01 has been possible operating modes. Off- Head Cool mode is 40 and cold mode in 61 million. The Amenate 2008-010 has been possible operating modes. Off- Head Cool mode that 61 and the cold mode is the form of the cold mode. The form cold mode is the form of the cold mode is the form cold mode in the form of the The Amana® 2246007 also has a button lockout feature. This enables the thermostat to be set to the proper mode and temperature and locked so it cannot be tampered with.





DOWN – Used to decrease the set temperatures and to adjust configuration settings.

SYS (left) – Used to change from OFF, HEAT, ELECTRIC HEAT, COOL and AUTO changeover modes

FAN (right) – Used to turn on and off the Indoor fan.

UP, SYS and FAN – Held in simultaneously for 10 seconds to lock and unlock the thermostat.

DOWN and SYS – Pressed simultaneously to display outdoor temperature if outdoor remote sensor is connected.

Operating Modes

There are four possible operating modes for the Amana® 2246097. Off, Cool, Heat, and Cool & Heat modes are accessed by pressing the SYS (left) button.

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OFF Mode

OFF Mode

In its mode, the thermostat will not turn on the heating or cooling devices

I hitse mode, the heater for can be turned on manually in every operating mode by
pressing the FAN (gight) battor. The word FAN abous on the display and
the fan core

operating when the fan operates.



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Heat Mode

In this mode, the thermostat controls the healing system. When the heat outputs, the flame icon ♠ popears on the display.

Note: For heat pumps, there is a four minute delay for your compressor to restart after it has a smed off. To bypass the compressor time delay, go to OFF mode for 5 seconds.



Electric Heat Mode (Heat pump systems only)
 In Electric Heat mode, the heat pump system will be disabled and auxiliary heat will become the primary source of heat.



Cool Mode

In this mode, the thermostat controls the cooling system. When the cooling outside, the cooling outside of the cooling outside of the cooling outside outs



Cool and Heat Mode (Auto Changeover)

In this mode, the thermostat controls the cooling and heating systems, automatically changing over from one to the other as needed.

The timing display alternates with the set temperature every 10 seconds in the cool and heat mode.



Testing the Thermostat

Once the thermostat is configured, it should be thoroughly tested.

CAUTION 1: Do not energize the air conditioning system when the outdoor to degrees. It can result in equipment damage or personal injury.



Heat Test

1. Press 979 (eff) button until heat mode is displayed.

2. Adjust the set Immyreature so it is 6 displayed.

3. Heat decided come on within a law seconds.

4. Heat of sould come on within a law seconds.

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Lockout Feature

ionfiguration Mode Seminga (ways - , -) a activate the LOCK feature.

Simultaneously press the SYS, FAN and UP buttons for 10 seconds.

Mill display and the lockout function will be enabled.

Accordingly the LOCK feature, repeat steps 1 and 2 above.



Troubleshooting		
Symptom	Remedy	
No display	Check for 24 VAC at thermostat; display is blank when 24 VAC is not present	
System fan does not come on properly	Verify wiring is correct, check Gas/Electric Configuration (see Configuration Mode Setting 6)	
All thermostat buttons are inoperative	Verify 24 VAC is present; unit locks out when 24 VAC is not present	
No response with first button press	First button press activates backlight only	
Thermostat turns on and off too frequently	Adjust temperature differential (see Configuration Mode Settings 2 & 3)	
Fan runs continuously	Press FAN (right) button to turn fan off	
Room temperature is not correct	Calibrate thermostat (see Configuration Mode Setting 11) If remote sensor is used, check S1 and S2 terminal connections	
displays when any button is pressed	Thermostat has the button lockout function activated (see Lockout Feature and Configuration Mode Setting 8)	
& on display instead of room 56+ temperature	Check for a bad connection at S1 and S2 terminals, if used (see Configuration Mode Setting 13)	
Heat or Cool not coming on	Verify wiring is correct, gently pull on each wire to verify there is a good connection at terminal block	

72