



Home Energy Management Thermostat



Installation and User Instructions

Models TZEMT500BB32MAA

HOME INTELLIGENCE



Nexia Home Intelligence Customer Service: (877) 288-7707 The TZEMT500B Thermostat **is** compatible with single and multistage forced air systems, including:

- Gas furnace systems
- · Oil furnace systems
- Electric furnace systems
- · Heat pump systems
- · Air conditioning cooling systems

The TZEMT500B Thermostat may be compatible with some other system types, including:

- Boiler systems
- Geothermal systems
- Multi-zoned systems

The TZEMT500B Thermostat is not compatible with the following system types:

- · Radiant floor systems
- · Wall heating systems
- Proprietary HVAC Communication Protocols
- 240 V Electric baseboard heating systems
- → NOTE: A 24 Volt common and hot wire MUST be connected to the TZEMT500B for operation.
- → The TZEMT500B Thermostat is compatible with dual fuel systems (gas or oil furnace & heat pump combined) without adding a dual fuel accessory relay kit.

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WARNING

Voltage hazard. Can cause electrical shock or equipment damage. Disconnect power to heating and cooling equipment before beginning installation.

Remove the existing thermostat cover from the wall plate. Leave wires attached.



When this control is replacing an old control that contains mercury in a sealed tube, do not dispose of your old control in the trash. Dispose of properly. Contact your local waste management authority for instructions regarding recycling and proper disposal of the old control.

A listing of heating, ventilating and air conditioning wholesalers that participate in the Thermostat Recycling Corporation's recycling program are available at www.thermostat-recyle.org.



3	 Remove existing wall plate. → Note: During this process, make sure that the wires do not pull back into wall opening. a. Detach all wires from wall plate. b. Remove all screws attaching the wall plate to the wall and remove wall plate. → See <i>Mercury Notice</i> on page . 	Come of the second seco
4	 Separate the face of the new thermostat from the wall plate. Apply pressure at two tabs on top of wall plate to release it. → NOTE: It is not recommended that this Z-waveTM thermostat be mounted onto metal structures. Metal may adversely affect the radio frequency (RF) communication between the thermostat and the Z-waveTM bridge. 	6000
5	 Mark two mounting holes using new wall plate. c. Pull wires through hole in center of wall plate. d. Locate the new wall plate over existing opening. e. Mark two holes with pencil. f. Use a level to verify that the two hole locations are level. g. Correct hole locations as needed. 	
6	 Prepare two mounting holes. h. Drill 1/16" pilot holes in the two locations that were marked in step 9. If mounting to drywall with no studs behind it, enlarge pilot holes to 1/8" for anchors (included with the thermostat). i. If using anchors, screw them into the holes. 	Anchors
7	 Install new wall plate. c. Pull wires through hole in center of wall plate. d. Locate the new wall plate over existing opening. e. Attach wall plate to wall using two screws provided. Do not overtighten. 	and the second sec
8	Attach all wires securely to the new thermostat. (See the Field Wiring Diagrams on the following page.) Note: A wire must be connected to "24COM" to power the thermostat. a. Use the information from the Field Wiring Diagrams to match the wires to the correct terminals. b. Use 1/8" blade screwdriver to secure wires in terminals. CAUTION: EQUIPMENT DAMAGE HAZARD	

Improper wiring can lead to equipment damage. Follow the Terminal Connection information from step 6 carefully to ensure the control is wired properly. After wires are secure, bare wires MUST NOT touch each other. See the Field Connection Wiring Diagrams on the following pages for specific system applications.

Field Wiring Diagrams

The following table can be used to find the correct field connection wiring diagram for the HVAC System Type that is being installed.

Indoor Unit			Outdo	or Unit		
	1 Stage Cooling	2 Stage Cooling	2 Step Cooling	1 Stage Heat Pump	2 Stage Heat Pump	2 Step Heat Pump
1 or 2 Stage Gas Furnace (PSC/CTM)	А	NA	NA	C ①	NA	NA
2 Stage VSPD Gas Furnace	А	А	В	C ①	C ①	D (1)
COM Furnace	А	А	А	C ①	C ①	C ①
Air Handler (PSC/CTM)	А	NA	NA	С	NA	NA
VSPD Air Handler	А	А	В	С	С	D
COM Air Handler	A	А	А	С	С	С
Oil Furnace (PSC)	E	NA	NA	E ①	NA	NA
Oil Furnace (VSPD)	E	E	F	E ①	E ①	F ①
Enhanced Dehumidification Mode	See Notes 33 (4)					

① For heat pumps matched with furnace, Dual Fuel must be enabled in the Mechanical Settings menu.

② BAYSEN01ATEMPA is required for "restricted" mode of operation. See Remote Temperature Sensor Installation.

③ Enhanced Dehumidification Mode is not applicable with 2 Step outdoor products combined with legacy variable speed indoor

products that use BK for high stage airflow: System types B, D, or F.

④ Smart Continuous Fan and Cooling Droop are available for all models.

System Type A - 1 or 2 Stage Heating with 1 or 2 Stage Cooling



sensor. RS2 reports the outdoor temperature to comfort control.

System Type B - 2 Stage Variable Speed Gas Furnace or Variable Speed Air Handler with 2 Step Cooling (Note 3, Note 4)



System Type C - PSC, CTM, Variable Speed, or 24 Volt Communicating Air Handler or gas furnace with 1 or 2 Stage/Step Heat Pump (Note 4, Note 5, Note 6, Note 7, Note 9)



Note 5 - For 2 Stage, outdoor unit contains two compressors

Note 6 - For 2 Step, outdoor unit contains the compressor Note 7 - PSC CTM air handler or gas furnace for single stage heat pump only Note 8 - Remote sensor wiring is not polarized.

Note 9 - For heat pumps matched with furnace, dual fuel must be enabled in the "Mechanical Settings" menu. BAYSEN01ATEMPA required for "restricted" mode of operation. See "Remote Temperature Sensor Installation".

Remote Temperature Sensor Connections and Operation: Indoor sensor connected to RS1. Replaces internal sensor. RS2 not connected. Indoor sensor connected to RS2. Averages temperature with internal sensor. RS1 not connected. Indoor sensors connected to RS1 and RS2. Averages RS1 and RS2 sensor temperatures.

Internal sensor is not used

Outdoor sensor connected to RS2. Reports outdoor temperature to comfort control. Indoor sensor connected to RS1 and outdoor sensor connected to RS2. RS1 replaces the internal sensor. RS2 reports the outdoor temperature to comfort control.

System Type D - Variable Speed Air Handler or Furnace with 2 Step Heat Pump



- Note 5 For Heat Pumps matched with furnace, dual fuel must be enabled in the
- "Mechanical Settings" menu. BAYSEN01ATEMPA required for "restricted" mode of operation. See "Remote Temperature Sensor Installation".

- Remote Temperature Sensor Connections and Operation: Indoor sensor connected to RS1. Replaces internal sensor. RS2 not connected. Indoor sensor connected to RS1. Averages temperature with internal sensor. RS1 not connected. Indoor sensors connected to RS1 and RS2. Averages RS1 and RS2 sensor temperatures. Internal sensor is not used.
- Outdoor sensor connected to RS2. Reports outdoor temperature to comfort control Indoor sensor connected to RS1 and outdoor sensor connected to RS2. RS1 replaces the internal sensor. RS2 reports the outdoor temperature to comfort control.



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System Type F - Variable Speed Oil Furnace with 2 Step Cooling R1 (): elav. See R1 be or Heat Pump



Enhanced Dehumidification Mode

Enhanced Dehumidification Mode

When the TZEMT500B is connected to variable speed indoor products, the enhanced dehumidification mode can reduce indoor airflow to improve dehumidification during the cooling run cycle. When 24 VAC is present at the BK terminal, (HC to H1 = N.C.) airflow will be 100 percent. When 24 VAC is removed from BK, (HC to H1 = N.O.) airflow will be reduced by 20 percent. See Notes 11 and 12.

Not applicable with 2 step outdoor products combined with legacy variable speed indoor products that require BK for high stage airflow: System Types B, D, or F on page 4.

HC to H1 = N.C. when RH% is lower than RH% setpoint HC to H1 = N.O. when RH% is higher than RH% setpoint



- indoor unit

Indoor sensor connected to RS1 and outdoor sensor connected to RS2. RS1 replaces the internal sensor. RS2 reports the outdoor temperature to comfort control.

Optional Remote Temperature Sensors Installation

Wire specification (RS1 & RS2): 2 conductors, 18 gauge wire. Make sure that the sensor wires have a cable separate from the thermostat cable. Best results for distances of 100 feet or less. Accuracy may be affected for distances up to a maximum of 200 feet. Shielded cable is recommended for distances over 100 feet and less than 200 feet.



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CAUTION: Keep this wiring at least one foot away from large inductive loads such as electronic air cleaners, motors, line starters, lightning ballasts, and large distribution panels. Failure to follow these wiring practices may introduce electrical interference (noise) which can cause erratic system operation. Shielded cable is required if the above wiring guidelines cannot be met. Be sure to ground only one end of the shield to the thermostat common terminal. Tape back the other end of the shield.

Remote Sensors Part Numbers

Remote Indoor Sensor: Use ZZSENSAL0400AA for indoor applications.

Remote Outdoor Sensor: Use BAYSEN01ATEMPA for outdoor applications.

- → IMPORTANT: Make sure that the sensor wires have a cable separate from the thermostat cable.
- ➔ IMPORTANT: Follow directions below for averaging. These instructions replace the averaging information found in the Installer's Guide for the ZZSENSAL0400AA.
- → Note: Remote Sensor 2 can be selected as an indoor sensor or an outdoor sensor.

Remote Temperature Sensor Connections and Operation:

A) Indoor sensor connected to RS1. Replaces internal sensor. RS2 not connected.

Remote Sensor 1 (RS1) replaces the internal temperature sensor of the thermostat. This allows the thermostat to be installed in a location different than the area where the temperature will be measured. Use ZZSENSAL0400AA. See Figure A.

B) Indoor sensor connected to RS2. Averages temperature with internal sensor. RS1 not connected.

RS2 is used as an indoor temperature sensor that averages temperatures with the internal sensor. Use ZZSENSAL0400AA. See Figure B.

If RS2 is set to indoor location ("IN" - Default selection in the thermostat installation set up menu) and a sensor is attached to the RS2 sensor terminals of the thermostat, the RS2 temperature is averaged with the thermostats internal temperature sensor.

C) Indoor sensors connected to RS1 and RS2. Averages RS1 and RS2 sensor temperatures. Internal sensor is not used.

Remote Sensor 1 (RS1) and Remote Sensor 2 (RS2) are both used as indoor sensors. The RS1 temperature and RS2 temperature is averaged. See Figure C.

D) Outdoor sensor connected to RS2. Reports outdoor temperature to comfort control. RS2 is used as an outdoor temperature sensor. Use BAYSEN01ATEMPA. See Figure B.



If RS2 is set to outdoor location ("OUT" in the thermostat installation set up menu) and a sensor is attached to the RS2 sensor terminals of the thermostat, the RS2 temperature is used to report outdoor temperature. It is also displayed on the thermostat main screen. See Step 15 to configure for outdoor temperature sensing.

E) Indoor sensor connected to RS1 and Outdoor sensor connected to RS2. RS1 replaces the internal sensor. RS2 reads the outdoor temperature.

Remote Sensor 1 (RS1) replaces the internal temperature sensor of the thermostat. This allows the thermostat to be installed in a location different than the area where the temperature will be measured. Use ZZSENSAL0400AA.

RS2 is used as an outdoor temperature sensor. Use BAYSEN01ATEMPA. See Figure C.

If RS2 is set to outdoor location ("OUT" in the thermostat installation set up menu) and a sensor is attached to the RS2 sensor terminals of the thermostat, the RS2 temperature is used to report outdoor temperature. It is also displayed on the thermostat main screen. See Step 15 to configure for outdoor temperature sensing.

9 If necessary, cut the internal jumper wire (JP1).





Cutting the JP1 jumper

The jumper is located on back of the thermostat face as shown in the illustration to the right. Cut the jumper using small diagonal cutters being careful not to damage the board.

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Attach the thermostat face to the wall plate.

- a. Carefully align the face plate to the wall plate while aligning pins into wire terminals.
- b. Once thermostat face is properly aligned, apply pressure at top and bottom of thermostat face until it is secure.



Turn power to heating and cooling system back on.

The thermostat display should turn on and begin displaying information. If the thermostat display does not come on, go back through the installation steps and look for problems.

System Settings at Thermostat

12 Set Time and Date

a. Press the Menu button twice.



b. Scroll up or down to *User Settings* (it is the first option), then press the *Select* button.



c. Scroll up or down to **Set Clock** (it is the first option), then press the **Select** button.

13 If your System Type is:

- Gas Furnace Single Stage, Perform System Checkout step 16
- · Gas Furnace Multistage, perform step 14 then step 14A
- Electric Furnace, perform step 14 then step 14B
- Heat Pump, perform step 14 then step 14C
- Heat Pump Dual Fuel, perform step 14 then step 14D



- d. Press ► or ◀ to highlight the data you want to change.
- e. Scroll up or down (+ or -) to make changes.
- f. Press the *Set* button when you are finished.
- g. Press the *Done* button twice to exit the menu.



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14A

14**B**

Mechanical Settings

- a. Press the *MENU* button twice.
- b. Press and hold the two inner buttons for 3 seconds to view *Installer Settings*
- c. Scroll down to *System Settings* and press the Select button.
- d. Scroll to *Mechanical Settings* (it is the first option), then press the **Select** button.
- e. Choose option A-D below:

For Gas Furnace - Multistage Mechanical Settings

- a. Scroll down to 2nd Stage Heat.
- b. Press the + button to change the setting to Y for Yes.
- If your system also has 2nd stage cooling, scroll down to 2nd Stage Cool and Press the + button to change the setting to Y for Yes.
- d. Press the Done button 4 times and go to Perform System

Checkout.

For Electric Furnace Mechanical Settings

- a. Scroll down to Fan Type.
- b. Press the + button to change the setting Electric.
 - ➔ If Single Stage System, press Done 4 times and go to Perform System Checkout.
 - → If Multistage System, continue with steps c through f.
- c. Scroll down to 2nd Stage Heat.
- d. Press the + button to change the setting to Y for Yes.
- e. If your system also has 2nd stage cooling, scroll down to 2nd Stage Cool and Press the + button to change the setting to Y for Yes.
- f. Press the Done button 4 times and go to Perform System

14C

Heat Pump Mechanical Settings

a. Scroll to system Type.

Checkout.

- b. Press the + button to change the setting to Y to Heat Pump.
- c. Scroll down to Fan Type.
- d. Press the + button to change the setting to Electric.
- e. If Coleman, Rheem, or Rudd brand heat pump, scroll to C/O Type and change to *With Heat*.
 - ➔ If Single Stage System, press Done 4 times and go to Perform System Checkout.
 - → If Multistage System, continue with steps f through j.
- f. Scroll down to 2nd Stage Heat.
- g. Press the + button to change the setting to Y for Yes.
- h. Scroll down to 2nd Stage Cool.
- i. Press the + button to change the setting to Y for Yes.
- j. Press the Done button 4 times and go to Perform System

Checkout.

Enable Dual Fuel

- a. Scroll to system Type.
- b. Press the + button to change the setting type to Heatpump DF. The default control mode is Non-restricted.
- c. To change to Restricted, scroll to DF Type Non-restricted. Press the + button to set the mode to Restricted.
- d. If Non-restricted control mode was selected, press the Done button 4 times and go to Perform System Checkout.
- e. If restricted control mode was selected, set the desired compressor lockout temperature. Press the Done button 3 times then select User Settings. Scroll down to Balance Point. Use the + and
 buttons to set the compressor lockout temperature. Default compressor lockout temperature is 40°F.
- f. Press the Done button 2 times and go to Perform System Checkout.



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14D

Optional Remote Temperature Sensors Installation

Remote sensor input RS2 can be configured for use as indoor or outdoor temperature sensing. An outdoor temperature sensor is required for Dual Fuel Restricted mode. The factory default setting for RS2 is "IN" for use with remote indoor temperature sensing and/or averaging. To configure RS2 to sense outdoor temperature, complete the following steps:

- a. Press the MENU button twice to access the Menu Selection screen.
- b. From the Menu Selection screen, press and hold the two inner buttons down for 4 seconds to reach the Installer Settings menu.
- c. From the Installer Settings screen, scroll down to Remote Sensors using the Scroll down button and press the Select button.
- d. From the Remote Sensors screen, select the option for RS2 remote senor location. (IN is the factory default setting)
- e. To change RS2 for use as an outdoor temperature sensor, press the + button to change this setting to OUT.
- f. Press the Done button three times to return to the home screen.



Enroll Thermostat into existing Nexia[™] Hone Intelligence System

Prepare the bridge for enrollment.

- Note: If the bridge is already installed, follow the instructions as they are written in the following steps. If the bridge is not installed, follow the Quick Start Guide publication number shipped with the thermostat starter kit.
- a. Unplug Ethernet and power cables from bridge.
- b. Install a quality 9 volt battery.

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- c. Verify that blue light is blinking. If blue light is solid, battery is dead.
- d. Take bridge to the location where the thermostat is mounted.



Enroll the thermostat into the bridge. (Inclusion)

If you are using a controller that is not a Nexia[™] bridge, consult the Quick Start Guide that came with the controller to find out how to enroll a new device.

- a. Hold the bridge within 6 feet (1.8 meters) of the thermostat throughout steps "b" through "f".
 - ➔ After you begin the enrollment process, you have 30 seconds to complete the remainder of the steps. Study the steps below before beginning.
- b. Press and release the plus (+) button on the bridge.
- c. Press the MENU button on the thermostat.
- d. Scroll down to Z Wave Install, and press the Select button.
- e. Press the Yes button to enroll the thermostat.
- f. Observe the lights on the bridge. The orange light will blink while enrollment is taking place. Enrollment is complete when the orange light becomes solid.





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Verify enrollment of the thermostat.

- a. Scroll down to Thermostat Info, and press the Select button.
- b. Look at the number listed after **ZNID**.
 - If the number listed there is anything other than "000", the thermostat has been successfully enrolled.
 - If the number listed there is "000", the thermostat has NOT been successfully enrolled. In this case, repeat step 22 and verify again.
- c. Press Done button 2 times when finished.

Item	Description
TZEMT500BB32	Model Number
Ver: 01.00.13	Firmware version (number may vary)
ZVER: 02.00.9	Z-Wave version (number may vary)
ZNID: 013	Z-Wave node ID (number may vary)
ZHID: 01.07.37.a7	Z-Wave Home ID (number may vary)
System Type: Standard	System type may be Standard or Heat Pump
Fan Type: Gas	Fan type may be Gas or Elect (electric)
3	



Establish Online Control of the Thermostat.

Nexia Home Intelligence account must be active before continuing. See nexiahome.com for more information.

a. Remove the battery from the bridge.

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- b. Plug the Ethernet and power cord back into the bridge.
- c. Log into your account at www.mynexia.com
- d. Click the Climate tab and follow the on screen instructions.

Exclusion (Only used to unenroll a thermostat from the bridge)

- a. Install a new, high-quality 9-volt battery into the bridge.
- b. Hold the bridge within 6 feet (1.8 meters) of the thermostat throughout the entire exclusion process.
- ➔ After you begin the exclusion process, you have 30 seconds to complete the remainder of the steps. Study the steps below before beginning.
- c. Press and release the minus (-) button on the bridge.
- d. Press the *MENU* button on the thermostat.
- e. Scroll down to *Z-Wave Install* and press the *Select* button.
- f. Press the Yes button to exclude the thermostat.
- g. Observe the lights on the bridge. The orange light will blink while exclusion is taking place. Exclusion is complete when the orange light becomes solid.
 - → Z-Wave[™] controllers from various manufacturers may support the Z-Wave[™] Thermostat General V2 Device class used by the Z-Wave[™] Thermostat. If you are using a controller that is not a Nexia bridge, consult the instructions that came with the controller to find out how to enroll a new device.

Specification	Description
Product Model:	TZEMT500BB32MAA
Product:	Thermostat for Heating and Cooling HVAC System control.
	Z-Wave™ RF communications enabled
Size:	5.7" wide x 4.0" height x 1.2" depth
Display:	Graphical LCD, 2.75" x 1.5", 64x128-pixel
Backlight:	Yes, Blue/white, Controllable, on, off, timeout
Contrast:	Adjustable on screen
Buttons:	6
Power:	24VAC from HVAC System
HVAC System Type Compatible:	Standard (gas/electric), Heat Pump. or Dual Fuel
Multistage System Compatible:	Standard HVAC Systems: 2 stage heating, 2-stage cooling, dual fuel
	Heat Pump Systems: 3 stage heating (2-compressor, 1 aux heat), 2-stage cooling
Heat Pump change over valve:	Selectable change over with cool or with heat
Communications:	Z-Wave™ RF
Memory:	Non-volatile
Clock:	24 hour back-up power provided by super capacitor

Product Specifications

Operation

The model TZEMT500BB32MAA thermostat provides typical thermostat control of a central heating and cooling HVAC system. These thermostats also features a Z-Wave[™] module for remote control.



Normally, the thermostat displays the thermostat control screen as shown above.

Item	Description	Notes			
Clock Display	The current time is displayed in the upper left corner of the main screen. The time will blink when the clock has not been set.	See Set Clock for more information.			
Dynamic Labels and Function Control Buttons	The buttons are defined by the dynamic labels above each button. As you navigate through menus, the labels for the buttons will change.				
Setpoint Display and Setpoint Up/Down Buttons	The current heat and cool setpoints are displayed. These setpoints may be set using the Z-Wave control system, the thermostat's internal schedule, or by	The setpoints will push each other if they are adjusted to within the minimum heat/cool separation setting. This is normally 3 degrees.			
	pressing the Setpoint Up/Down buttons. In HEAT mode, the Setpoint Up/Down buttons change the heat setpoint. In COOL mode, they change the cooling setpoint. In AUTO mode, the buttons change the last call's heating or cooling setpoint.	The internal schedule is disabled by default. See Schedules for more information.			
Temperature Display	The thermostat displays the current temperature as sensed by the internal temperature sensor.	The internal temperature sensor can be adjusted as necessary. See <i>Internal Sensor Calibration</i> for more information.			
Menu Button	Button used to access other thermostat menus	Other thermostat menus can be accessed by pressing the <i>MENU</i> button.			
System Mode Button	Button used to change the system mode	Off: System off			
		Heating: Heating only on			
		Cooling: Cooling only on			
		Auto: Heating/Cooling on as necessary			
Fan Mode Button	Button used to change the fan mode:	Auto: Fan on when cooling/heating is necessary			
		On: Fan constantly on			
		Fan Cycler (note 15			
		Smart Continuous Fan (notes 1, 2)			
Schedule Mode Button	Button used to change the schedule mode:	Hold: System maintains the current temperature setpoints. Schedules are disregarded.			
		Run: Run the system schedule (or Z-Wave controlled schedule)			
		Energy Saving Mode: Temperature setpoints in ESM Setpoints are maintained. See <i>ESM Setpoints</i> on for more information.			
Note 1 See the Installer Settings menu to enable					
Note 2 See the User Settings menu to set RH setpoint					

Minimized Display Mode

Optionally, you can set the thermostat to show only the temperature in minimized display mode. This mode can be enabled or disabled in the Users Settings screen.

→ See *Screen Timeout* for more information.



Menu Maps - User Settings User settings are accessed by pressing the MENU button on the main screen. Optional Menus (enabled in the Installers Settings menu) Schedules (Disabled by Default) Schedule (if enabled) Note 1 Heat and Cool **User Settings** -> Schedule - Set Clock Copy Filter Service Preset: Comfort Maint Service Preset: Energy Save Screen Timeout **RH% Setpoint** Balance Point - Note 2 F/C Settings ► F/C Mode Sensor Calibration Internal Remote 1 Remote 2 Outside Backlite/Display **Backlite Timeout** ON Level OFF Level Contrast Usage Graph Heat/Cool **ESM Setpoints** ESM - Heat ESM - Cool Zwave Install Thermostat Info Note 1 - Only visible if Schedule Enable is selected in the Installer Settings menu. Disabled by default Select Menu Select Button Note 2 - Only visible if Dual Fuel Restricted is Done Back one level or to exit selected in Mechanical Settings menu.

Current selection on thermostat

Menu Maps - Installer Settings

Installer settings are accessed by pressing the MENU button on the C Delta Stg2 ON main screen then pressing and holding the two middle buttons until C Delta Stg2 OFF the Installer Settings appear. Max Heat SP Installer Settings (Hidden) Max Cool SP **Display Lock** Min Run Time System Settings Min Off Time Mechanical Settings **T-Sense Match** Type Fan Cycler Gas/Elec Fan ON Time Fan Type Fan OFF Time Gas **Remote Sensors** Elec RS2 Location 2nd Stage Heat **Dehumid Options** 2nd Stage Cool Cooling Droop Smart Cont Fan Туре Enhanced Dehumid Heatpump **RH** Calibration C/O Type **Restore Defaults** w/Heat w/Cool 2nd Stage Heat Aux Heat (HP) 2nd Stage Cool Туре Heatpump DF DF Type Nonrestrict Restrict C/O Type w/Heat w/Cool 2nd Stage Heat Aux Heat (HP) 2nd Stage Cool Balance Point (if DF = Restrict) Sched Enable **Recovery Enable** H/C Delta H Delta Stg1 ON H Delta Stg1 OFF H Delta Stg2 ON H Delta Stg2 OFF H Delta Stg3 ON H Delta Stg3 OFF C Delta Stg1 ON C Delta Stg2 OFF

Filter Service

The Filter Service screen will show the accumulated Runtime hours as well as the Service Interval that will be used to trigger a Filter Message. Any type of HVAC operation that causes the HVAC system fan to run will cause the Filter Runtime value to increase.

When the Runtime hours equals the Service Interval hours, a "Filter" message to remind you to replace the filter. Once the filter has been replaced, press the Reset button to reset the Filter Runtime value to zero.

Filter Settings

- 1. Press the *MENU* button.
- 2. Scroll to *User Settings* and press the *Select* button.
- 3. Scroll to *Filter Service* and press the *Select* button.
- 4. Make choice from the following options A-C:

A. To View/Reset Filter Runtime

- 5. The Filter Runtime is displayed in hours.
- 6. To reset the Filter Runtime counter, press the *Reset* button.
 - → The Filter Runtime counter should be reset each time the filter is changed.

B. Change the Filter Service Interval

- 7. Press the plus (+) or minus (-) buttons to adjust the service interval.
 - → The service interval can be set between 100 and 4000 hours in 100 hour increments.

C. Disable the Filter Service Interval

When the filter service interval is disabled, the runtime counter will continue to count the runtime, but the filter service indicator will never be displayed.

8. Press the minus (-) button until Disabled is displayed



Maintenance Service

The Maintenance Service screen shows the accumulated Heat and Cool Runtime hours as well as the Service Interval that will be used to trigger a Maintenance Message. Any HEAT or COOL type of HVAC operation will cause the respective Runtime values to increase.

When the combined HEAT and COOL Runtime hours equals the Service Interval hours, a "Maint" message to remind you your HVAC system may require periodic maintenance. Press the *Menu* button to enter the Filter Service screen. The Reset button can be pressed and the HEAT and COOL Runtime values will be reset to zero.

Maintenance Service Interval

- 1. Press the *MENU* button.
- 2. Scroll to User Settings and press the Select button.
- 3. Scroll to *Maint Service* and press the *Select* button.
- 4. Make a choice from the options A-B

A. Change the Maintenance Service Interval

- 5. Press the plus (+) or minus (-) buttons to adjust the service interval.
 - → The service interval can be set between 200 and 4000 hours in 100 hour increments.

B. Disable the Maintenance Service Interval

When the maintenance service interval is disabled, the runtime counter will continue to count the runtime, but the maintenance service indicator will never be displayed.

6. Press the minus (-) button until Disabled is displayed

Screen Timeout

This is the time before any screen reverts to the Minimized Screen (temperature display only), after you stop pushing buttons. Minimized Screen feature is disabled by setting this time to "0".

Screen Timeout

- 1. Press the *MENU* button.
- 2. Scroll to User Settings and press the Select button.
- 3. Scroll to Screen Timeout
- 4. Make choice from the options A-B.

A. Change the Screen Timeout

- 5. Press the plus (+) or minus (-) buttons to adjust the time (in seconds).
 - ➔ The screen time-out can be set between 0 and 120 seconds. Zero (0) is the default setting. When set to Zero (0), the minimized screen feature is disabled.

B. Disable the Minimized Display

6. Press the minus (-) button until zero (0) is displayed.

RH% Setpoint

RH% Setpoint Default Range

50% 40-70%

This is a user selectable value for when enhanced dehumidification or smart continuous fan is enabled. See Dehumidification options in Installer Settings.

Balance Point

Balance Point Default Range 40 F 5-70 F

This is a user selectable value for when dual fuel "Restricted" mode is enabled. The temperature selected is the compressor lockout temperature. When the outdoor temperature is above this setpoint, only the heat pump will run for heating. When the outdoor temperature is below this setpoint, only the furnace will run for heating.





F/C Settings

The F/C Settings screen is use to select the temperature display mode. Fahrenheit (F) or Celsius (C) are the two available modes.

Change the Temperature Mode

- 1. Press the *MENU* button.
- 2. Scroll to *User Settings* and press the *Select* button.
- 3. Scroll to *F/C Settings* and press the *Select* button.
- 4. Press the plus (+) or minus (-) buttons to change the temperature mode. Select F for Fahrenheit or C for Celsius.



Internal Sensor Calibration

The Sensor Calibration screen is used to change the temperature calibration of the internal temperature sensor. The temperature calibration can be changed by +/- 7 degrees.

When the Sensor Calibration screen is selected, the current temperature calibration is displayed. In the example screen, the calibrated temperature is 77 and the number of degrees of offset being applied is 1.

Change the Sensor Calibration

- 1. Press the *MENU* button.
- 2. Scroll to *User Settings* and press the *Select* button.
- 3. Scroll to *Sensor Calibration* and press the *Select* button.
- 4. Press the plus (+) or minus (-) buttons to change the sensor calibration.
 - After this screen is closed, it may take a few seconds for the temperature displayed on the main thermostat screen to update to the new temperature.

Usage Graph

The Usage Graph shows daily heating and cooling runtime hours for a week.

The button in the lower right corner will change depending on what is being displayed. When the heating time is displayed, the button will read *Cool*. When the cooling time is displayed, the button will read *Heat* Press the *Heat/Cool* button to display the heating/cooling time.





Backlite/Display

The Backlite/Display screen is used to set the backlight time-out and contrast.

Backlite Timeout is the time (in seconds) from the last button press to the backlight going out. The time-out can be set between zero (0) and one hundred and twenty (120) seconds. Thirty (30) is the default setting. When set to zero (0), the backlight will remain always on.

Contrast sets the contrast level of the LCD display. The contrast can be set between zero (0) and twenty (20). Ten (10) is the default setting. If the display is too light, using a higher number. If dark lines appear in the display, use a lower number.

Backlight

- 1. Press the *MENU* button.
- 2. Scroll to *User Settings* and press the *Select* button.
- 3. Scroll to Backlite/Display and press the Select button.
- 4. Make choice from the options A-B.

A. Adjust the Backlight

- 5. Scroll to Backlite Timeout.
- 6. Press the plus (+) or minus (-) buttons to change the number of seconds.
 - → The backlight time-out can be set between 0 and 120 seconds. Thirty (30) is the default setting. When set to Zero (0), the backlight will remain always on.

B. Adjust the Contrast

- 7. Scroll to *Contrast*.
- 8. Press the plus (+) or minus (-) buttons to change the contrast value.
 - → The contrast can be set between 0 and 20. Ten (10) is the default setting.

ESM Setpoints

Energy Saving Mode (ESM) Setpoints are the setpoints used when the *Energy Saving Mode* schedule is selected in the *Schedule Mode* screen.

Adjust ESM Setpoints

- 1. Press the *MENU* button.
- 2. Scroll to **ESM Setpoints** and press the **Select** button.
- To adjust the heat setpoint, scroll to *ESM Heat*. Press the plus (+) or minus (-) buttons to adjust the setpoint.
- To adjust the cool setpoint, scroll to *ESM Cool*. Press the plus (+) or minus (-) buttons to adjust the setpoint.





Installer Settings

The Installer Settings screen is a hidden screen designed for use by qualified installers and service technicians. Do not change any settings in these screens unless you are a qualified installer or service technician.



Changing these settings will affect the operation of the heating/cooling system. To view and edit these settings:

- 1. Press the *MENU* button.
- 2. Press and hold the two middle buttons simultaneously until the *Installer Settings* menu is displayed.
- 3. Scroll to the setting you want to change. Press the plus (+) or minus (-) button to adjust the setting.
- 4. Press the *Done* button when you are finished.

Setting	Range	Default	Description
Display Lock	Y or N	Ν	Locks or unlocks the thermostat buttons. When the buttons are locked, the main menu can still be accessed, but no menu options may be selected. The Installer Settings hidden button operation is always operational, allowing Display Lock to be turned off.
System Settings	See next page		
Max Heat SP	55F to 90F (12C-32C)	90F (32C)	Sets the maximum heating setpoint value. Will not ramp or accept setpoints higher than this maximum.
Min Cool SP	60F to 99F (15C-37C)	60F (15C)	Sets the minimum cooling setpoint value. Will not ramp or accept setpoints lower than this minimum.
Minimum Run Time (MRT)	1-9 Minutes	3	Sets the minimum run time before a heating/cooling cycle can turn off to prevent rapid cycling. Thermostat screen will display <i>Cool ON</i> or <i>Heat ON</i> while the minimum run time is being enforced.
Minimum Off Time (MOT)	5-9 Minutes	5	Sets the minimum off time before another heating/cooling cycle can begin to provide compressor short cycle protection. Thermostat screen will display <i>WAIT</i> when minimum off time is being enforced.
T-Sense	1-6	2	Sample rate of temperature sensor Low Sample Rate = Less sensitive (slower response) High Sample Rate = More sensitive (faster response)
Fan Cycler ①	0-120 minutes	0 (= OFF)	The fan cycler function cycles the HVAC system fan for an ON
Fan ON Time			period followed by an OFF period continuously. Used to provide minimum air ventilation requirements. While the Fan ON time is
Fan Cycler $\textcircled{1}$	10-120 minutes	10	set to a value greater than 0, an additional Cycler FAN mode is
Fan OFF Time			present when pressing FAN button.
Remote Sensors	IN or OUT	IN	Used to enable remote temperature sensing, averaging, or for outdoor temperature setting for display and/or dual fuel restricted mode.
Dehumidification Options	See Dehumid Op	tion table	
Restore Defaults	n/a	n/a	Sets all of the thermostat settings back to the factory defaults.

① NOTE: CONTINUOUS fan mode during COOLING operation may not be appropriate in humid climates. If the indoor air exceeds 60% relative humidity or simply feels uncomfortably humid, it is recommended that the fan only be used in the AUTO mode.

System Settings

Changing these settings will affect the operation of the heating/cooling system.

To view and edit these settings:

- 1. Press the *MENU* button.
- 2. Press and hold the two middle buttons simultaneously until the Installer Settings menu is displayed.
- 3. Scroll to System Settings and press the *Select* button.
- 4. Scroll to the setting you want to change. Press the plus (+) or minus (-) button to adjust the setting.
- 5. Press the *Done* button when you are finished.
- → Note on Delta Settings: The Delta T Setting is the delta, or difference between, the setpoint and current temp for determining when a heat or cool call comes on. The "delta" is the number of degrees away from the setpoint.

Setting	Range	Default	Description
Mechanical Settings	See next page		
Balance Point	5-70 F	40 F	This is a user selectable value for when dual fuel "Restricted" mode is enabled. The temperature selected is the compressor lockout temperature. When the outdoor temperature is above this setpoint, only the heat pump will run for heating. When the outdoor temperature is below this setpoint, only the furnace will run for heating.
Schedule Enable	Y or N	N	When enabled, the local thermostats scheduler function is enabled.
Recovery Enable	Y or N	Y	The Recover feature is active only when "Schedule" is enabled and the schedule mode is set to "RUN" Recovery operation, when enabled, will start the cooling or heating system so that the desired comfort temperature is reached by the next scheduled set point time. The advance start time calculation is a learned process that is recalculated and adjusted each day until the room temperature is at the target temperature at the schedule time. When the thermostat is in Recovery mode the display will show "Recov". Recovery works for all scheduled periods (1-4) and in HEAT, COOL or AUTO modes. While in Recovery the Aux-Heat stage will not engage. The maximum Recovery time is one hour.
H/C Delta	3 - 15 degrees	3	Sets the minimum separation between heating and cooling setpoints. Attempts to lower the cooling below the heating setpoint by this amount will PUSH the heating setpoint down to maintain this separation. Same for setting the heating setpoint above the cooling setpoint, it will PUSH the cooling setpoint up to maintain this separation.
Heating Delta Stage 1 ON	1 to 8 degrees	1	Sets the delta from setpoint that stage 1 heating starts.
Heating Delta Stage 1 OFF	0 to 8 degrees	0	Sets the delta from setpoint that stage 1 heating stops. Stage 1 turns off at setpoint minus (-) Delta Stage 1.
Heating Delta Stage 2 ON	2 to 8 degrees	2	Sets the delta from setpoint that stage 2 heating starts.
Heating Delta Stage 2 OFF	0 to 8 degrees	0	Sets the delta from setpoint that stage 2 heating stops. Stage 2 turns off at setpoint minus (-) Delta Stage 2.
Heating Delta Aux Heat ON	3 to 8 degrees	3	Sets the delta from setpoint that Aux Heat starts.
Heating Delta Aux Heat OFF	0 to 8 degrees	0	Sets the delta from setpoint that stage 1 heating stops. Aux Heat turns off at setpoint minus (-) Delta Aux Heat.
Cooling Delta Stage 1 ON	1 to 8 degrees	1	Sets the delta from setpoint that stage 1 cooling starts.
Cooling Delta Stage 1 OFF	-2 to 8 degrees	0	Sets the delta from setpoint that stage 1 Cooling stops. Stage 1 turns off at setpoint plus (+) Delta Stage 1.
Cooling Delta Stage 2 ON	2 to 8 degrees	2	Sets the delta from setpoint that stage 2 cooling starts.
Cooling Delta Stage 2 OFF	-2 to 8 degrees	0	Sets the delta from setpoint that stage 2 Cooling stops. Stage 2 turns off at setpoint plus (+) Delta Stage 2.

Mechanical Settings

Changing these settings will affect the operation of the heating/cooling system. Options for mechanical setting will depend on the System Type selected.

To view and edit these settings:

- 1. Press the *MENU* button.
- 2. Press and hold the two middle buttons simultaneously until the *Installer Settings* menu is displayed.
- 3. Scroll to *System Settings* and press the *Select* button.
- 4. Scroll to *Mechanical Settings* and press the *Select* button.
- Scroll to the setting you want to change. Press the plus (+) or minus (-) button to adjust the setting. Depending on the system type, the choices below will be displayed.
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- 6. Press the *Done* button when you are finished.

Setting	Range	Default	Description
Туре	Gas/Elec	Gas/Elec	Selects system type Gas/Electric
Fan Type	Gas or Elec	Gas	Selects the Fan type if system is Gas or Electric
2nd Stage Heat	Y or N	N	Enables the 2nd Stage Heat operation
2nd Stage Cool	Y or N	N	Enables the 2nd Stage Cool operation
Setting	Range	Default	Description
Туре	Heat Pump	Heat Pump	Selects system type Heat Pump
С/О Туре	w/Cool or w/Heat	w/Cool	Set the Heat pump Changeover type
2nd Stage Heat	Y or N	N	Enables the 2nd Stage Heat operation
Aux Heat (HP)	Y or N	Y	Enables the Auxiliary Heat operation. Typically the Aux Heat will be heat-strips in a Heat Pump system
2nd Stage Cool	Y or N	Ν	Enables the 2nd Stage Cool operation
Setting	Range	Default	Description
Туре	Heat Pump DF	Heat Pump DF	Selects system type Heat Pump with Dual Fuel (Gas or Oil Furnace)
DF Type	Restricted / Non-restricted	Non-restricted	Non-restricted mode will follow thermostat demand for each heating stage. Restricted mode will lock out the compressor at a selectable outdoor temperature. Default balance point is 40° F.
С/О Туре	w/Cool or w/Heat	w/Cool	Set the Heat pump Changeover type
2nd Stage Heat	Y or N	Ν	Enables the 2nd Stage Heat operation
Aux Heat (HP)	Y or N	Y	Enables the Auxiliary Heat operation. Typically the Aux Heat will be heat-strips in a Heat Pump system
2nd Stage Cool	Y or N	N	Enables the 2nd Stage Cool operation
<u>J</u>			

Dehumidification Options Settings

Changing these settings will affect the operation of the heating/cooling system.

To view and edit these settings:

- 1. Press the *MENU* button.
- 2. Press and hold the two middle buttons simultaneously until the *Installer Settings* menu is displayed.
- 3. Scroll to *Dehumid Options* and press the *Select* button.
- 4. Scroll to the setting you want to change. Press the plus (+) or minus (-) button to adjust the setting.
- 5. Press the *Done* button when you are finished

Setting	Range	Default	Description
Cooling Droop	0-2	0	0=Off, 1=1 degree, 2=2 degrees. This is the amount of temperature overshoot allowed during low-load cooling conditions
Smart Cont Fan	Y-N	Ν	Y=On, N=Off. When enabled, this feature will cancel continuous fan operation when room RH% is higher than the RH% setpoint.
Enhanced Dehumidification	Y-N	Ν	Y=On, N=Off. When enabled and connected to a variable speed blower motor control, this feature will reduce the indoor blower speed when room RH% is higher than the RH% setpoint to provide additional dehumidification during the cooling run cycle.
RH Calibration	-7 to +7	0	Used to recalibrate the RH sensor

Schedules

Scheduling is usually controlled by your Z-Wave system. See the instructions that came with your Z-Wave system for more information; however, scheduling may also be controlled by the thermostat.

→ The Schedules menu is hidden by default, but may be enabled in the Installer Settings. See *Enable/Disable the Schedules Menu* below for more information..

The thermostat has a 4 x 7 schedule, meaning the setpoints can be changed up to four times a day each day. Each day has a separate schedule. Schedules may be copied from one day to another day or group of days. See *Copy a Day Schedule* on page 26 for more information.



Enable/Disable the Schedules Menu

Because the Schedules menu is disabled by default, you must first enable it before any scheduling can be done at the thermostat. If you want to use your Z-Wave system for scheduling, scheduling must be disabled in the thermostat.

- 1. Press the *MENU* button.
- 2. Press and hold the two middle buttons simultaneously until the Installer Settings menu is displayed.
- 3. Scroll to *Systems Settings* and press the *Select* button.
- 4. Scroll to Sched Enable and press the *plus (+)* button to enable scheduling or the *minus (-)* button to disable scheduling.
- → When scheduling is enabled in the thermostat, a Y will be displayed next to Sched Enable. When scheduling is disabled in the thermostat, an N will be displayed next to Sched Enable.

Load a Preset Schedule

There are two possible schedules that may be loaded: Preset Comfort and Preset Energy Save. These schedules may not be changed. When a schedule is loaded, it changes the current Heat and Cool schedule settings. You can then edit the Heat and Cool schedule, if necessary.

- ➔ Selecting Preset Comfort or Preset Energy Save schedules will overwrite the current Heat and Cool schedule.
- 1. Press the *MENU* button.
- 2. Scroll to *Schedules* and press the *Select* button.
- 3. Scroll to the schedule you want to load and press the *Select* button.
- 4. Press the Yes button.

Preset Schedule	Description
Preset: Comfort	This is a preset schedule with mild setbacks, designed to maintain a comfortable temperature.
Preset: Energy Save	This is a preset schedule with deeper setbacks, designed to conserve energy.



View the Current Schedule

- 1. Press the *MENU* button.
- 2. Scroll to *Schedules* and press the *Select* button.
- 3. Scroll to *Heat and Cool* and press the *Select* button.
- 4. The schedule for the current day will be displayed. To view other days, press the *Next* button.

Set a Heat and Cool Schedule

- 1. Press the *MENU* button.
- 2. Scroll to Schedules and press the Select button.
- 3. Scroll to Heat and Cool and press the Select button.
- 4. The schedule for the current day will be displayed. To view other days, press the Next button
- 5. To change a setting (hour, minute, day part, heat setpoint or cool setpoint), scroll to that setting using the left (◀) or right (▶) arrow buttons. Then press the plus (+) or minus (-) buttons as necessary.
- → Continue pressing the left (4) or right (▶) arrow buttons to move to the next line.

Copy a Day Schedule

- 1. Press the *MENU* button.
- 2. Scroll to *Schedules* and press the *Select* button.
- 3. Scroll to Heat and Cool and press the Select button.
- 4. The day of the week is displayed at the top of the screen. Press the Next button until the day you want to copy is displayed.
- 5. Highlight the small *c* in the lower right corner by pressing the left arrow (4) button once. The *Next* button will change to *Copy*.
- 6. Press the *Copy* button.
- 7. For each day to which you want to copy the day schedule, change the *N* (no) to *Y* (yes). Use the left (◀) or right (▶) arrow buttons to scroll to the day and the use the *Yes* or *No* buttons on the side of the screen.
- 8. Press the *Copy* button.

Smart Continuous Fan (SCF) Operation

Smart Continuous Fan will provide for continuous fan operation to control humidity. To use SCF, you must enable SCF operation in the Installers Settings menu under the Dehumidification Options menu. Set Smart Cont Fan to Y to enable it.

To turn on SCF, set the Fan mode to SCF.

When SCF fan mode is selected, the HVAC system fan will run continuously unless the humidity rises above the RH setpoint. The RH setpoint is set in the User Settings menu. Default RH is set to 50%. SCF fan operation is turned off when RH is above the setpoint. SCF operation is resumed at the end of the next cooling call.



Warranty

Limited Warranty Low Voltage Room Comfort Controls

U.S.A. and Canada Only

This limited warranty is extended by the manufacturer to the original purchaser and to any succeeding owner of the real property to which the low voltage room comfort control is originally affixed and applies to products purchased and retained for use within the U.S.A. and Canada.

The limited warranty period begins when the low voltage room comfort control installation is complete, verified by installer's invoice or similar document. If installation completion and start-up date cannot be verified by installer's invoice or similar document, limited warranty coverage begins six (6) months after the date of manufacture based on the low voltage room comfort control serial number.

If any part of your low voltage room comfort control fails because of a manufacturing defect within five (5) years from the date the limited warranty period begins, Warrantor will furnish without charge a new low voltage room comfort control. Any local transportation, related service labor, and diagnosis calls, are not included.

This limited warranty does not apply if the low voltage room comfort control was purchased direct (i.e. from internet websites or auctions) on an uninstalled basis. Additionally, this limited warranty will not apply unless the low voltage room comfort control is: (1) installed by a licensed or qualified HVAC technician, (2) applied and installed in accordance with the manufacturer's recommendations in its Installer's Guide, and (3) in compliance with all industry standards, national, state, and local codes.

This limited warranty does not cover your low voltage room comfort control if it is damaged while in your possession; including, but not limited to (1) damage caused by unreasonable use of the low voltage room comfort control, (2) damage from failure to properly maintain the low voltage room comfort control as set forth in the Use and Care manual, (3) damage that is not considered a manufacturing defect, such as acts of God, malfunctions or failures resulting from fire, water, storms, lightning, earthquake, theft, riot, misuse, abuse, increased utility usage costs, (4) performance problems due to improper selection/equipment match-up, installation, or application, or (5) failures, defects, or damages (including, but not limited to, any failure or loss of data) caused by any third party product, service, or system connected or used in conjunction with your low voltage room comfort control.

THE LIMITED WARRANTY AND LIABILITY SET FORTH HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES AND LIABILITIES, WHETHER IN CONTRACT OR IN NEGLIGENCE, EXPRESSED OR IMPLIED, IN LAW OF IN FACT, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR USE, AND IN NO EVENT SHALL WARRANTOR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

Some states do not allow limitations on how long an implied limited warranty lasts or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Parts will be provided by our factory organization through an authorized service organization in your area listed in the yellow pages. If you wish further help or information concerning this limited warranty, contact:

Residential Systems 6200 Troup Highway Tyler, TX 75707 Attention: Consumer Relations

Or visit our website: www.trane.com/residential

TW-1019-5109

FCC Notice

FCC ID WIBTZW008

INFORMATION TO USER

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.

This equipment has been tested and found to comply with the limits for 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 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

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IC Notice

IC 9374A-TZ45

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.



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Trane has a policy of continuous product and product data improvement and it reserves the right to change design and specifications without notice.

Trane 6200 Troup Highway Tyler, TX 75707 www.trane.com