



TP-S-955CR

Vive Comfort

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 Toll Free : 888-776-1427
 Web: www.vivecomfort.com
 Hours of Operation: M-F 9AM - 6PM Eastern

Thermostat Application Guide

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (With Aux. or Emergency Heat)	Yes
Multi-Stage Systems	Yes
Heat Only Systems	Yes
Cool Only Systems	Yes
Millivolt	Yes

Power Type

Battery Power
 Hardwire (Common Wire)
 Hardwire (Common Wire) with Battery Backup

A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

Una version en español de este manual se puede descargar en la pagina web de la compañía.

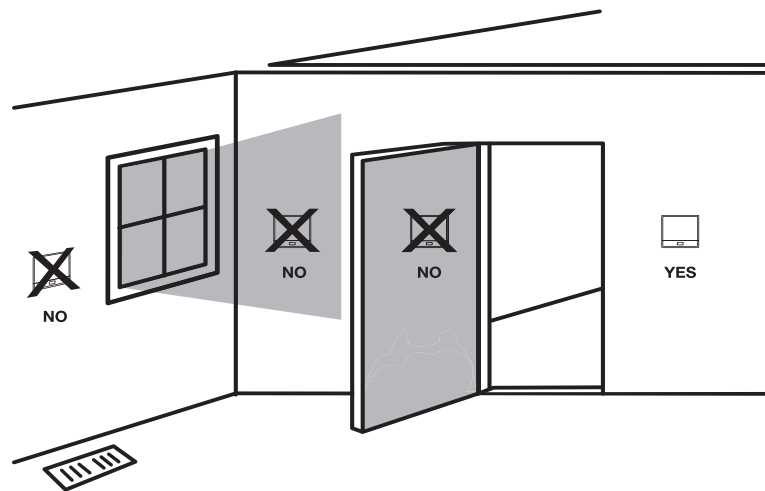
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Wall Locations

The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.



Do not install thermostat in these locations:

- Close to hot or cold air ducts
- That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or pipes

Installation Tip

Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.

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Rev. 1802

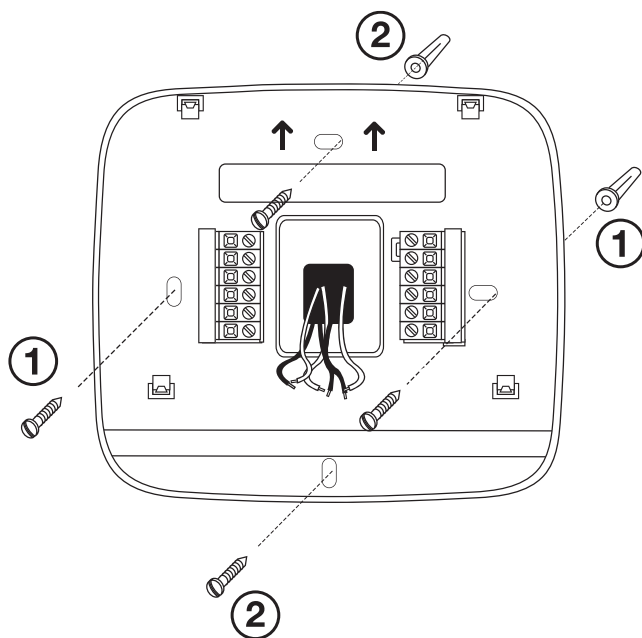
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Installation Tips

Installation Tips

Subbase Installation

Mount Thermostat



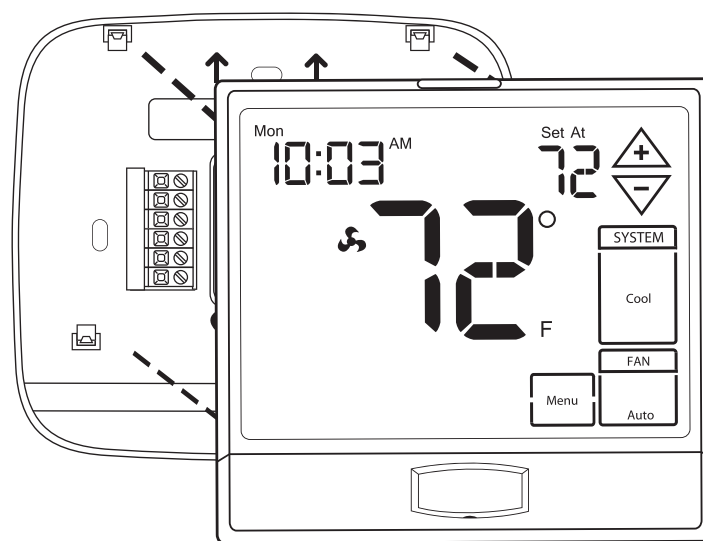
- 1 Horizontal Mount** For horizontal mount put one screw on the left and one screw on the right.
- 2 Vertical Mount** For vertical mount put one screw on the top and one screw on the bottom.

Installation Tip: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Mercury Notice

All of our products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.



Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.

Note: To ensure a solid fit between the thermostat and the subbase:

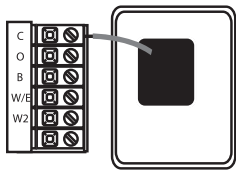
1. Mount subbase to a flat wall
2. Use screws provided
3. Drywall anchors should be flush with the wall
4. Wires should be pushed into the wall

3

4

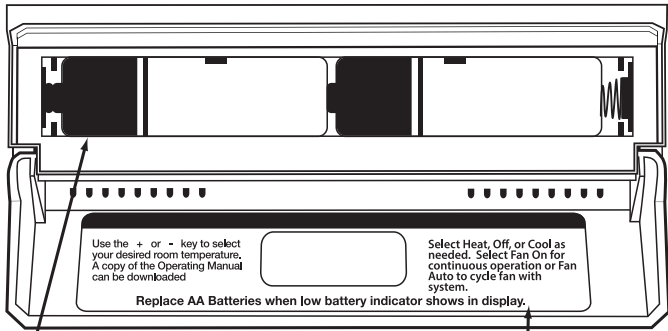
Battery Installation

Battery installation is recommended even if the thermostat is hardwired (C terminal connected). When the thermostat is hardwired and batteries are installed, the thermostat will activate a compressor delay of 5 minutes when it detects a power outage from the hardwired power supply.



Important:

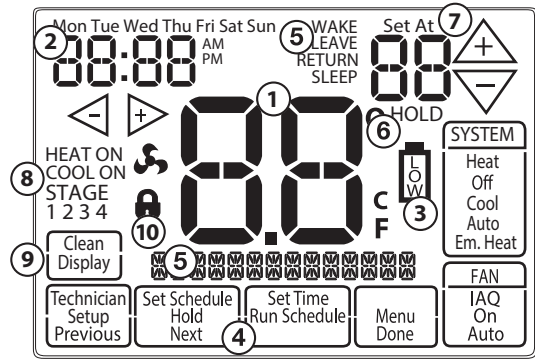
High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.



Insert 2 AA Alkaline batteries (included). High quality alkaline batteries are recommended.

Simple operating instructions are found on the back of the battery door.

Getting to know your thermostat



- ① Indicates the current room temperature
- ② Time and day of the week
- ③ Low Battery Indicator: Replace batteries when this indicator is shown.
- ④ Program Menu Options: Show different options during programming.
- ⑤ Time Periods - Shows the 4 time Periods for Residential. 2 or 4 Commercial time periods Occupied/Unoccupied are shown in this text field.
- ⑥ HOLD is displayed when thermostat program is permanently overridden.
- ⑦ Setpoint: Displays the user selectable setpoint temperature
- ⑧ System Operation Indicators: HEAT ON, COOL ON and stages are shown when these systems are running. NOTE: The compressor delay feature is active if these icons are flashing. The compressor will not turn on until the 5 minute delay has elapsed.
- ⑨ Clean Display: Will disable screen for 30 seconds to allow cleaning. A press and hold of clean also will reset filter change and other reminders.
- ⑩ Keypad Lockout Icon

Important

The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the screen will only show the low battery indicator but maintain all functionality. If the user fails to replace the batteries after an additional 21 days (days 22-42 since first "low battery" display) the setpoints will change to 55°F (Heating) and 85°F (Cooling). If the user adjusts the setpoint away from either of these, it will hold for 4 hours then return to either 55°F or 85°F. After day 63 the batteries must be replaced immediately to avoid freezing or overheating because the thermostat will shut the unit off until the batteries are changed.

Wiring

Caution: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Warning:

All components of the control system and the thermostat installation must conform to Class II circuits per the NEC Code.

Wiring

1. If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the green wire may not be connected to the **G** terminal.
2. Loosen the terminal block screws. Insert wires then retighten the terminal block screws.
3. Place nonflammable insulation into the wall opening to prevent drafts.

Installation Tip

Do not overtighten terminal block screws, as this can damage the terminal block. A damaged terminal block can keep the thermostat from fitting on the subbase correctly or cause system operation issues.

Max Torque = 6in-lbs.

Wiring Tips

C Terminal
The C (common wire) terminal does not have to be connected when the thermostat is powered by batteries.

Note:
In many heat pump systems with no emergency heat relay, a jumper can be installed between **E** and **W2** to turn thermostat into a single stage control for Emergency Heat Operation.

Wire Specifications

Use shielded or non-shielded 18-22 gauge thermostat wire.

Wiring

Terminal Designations

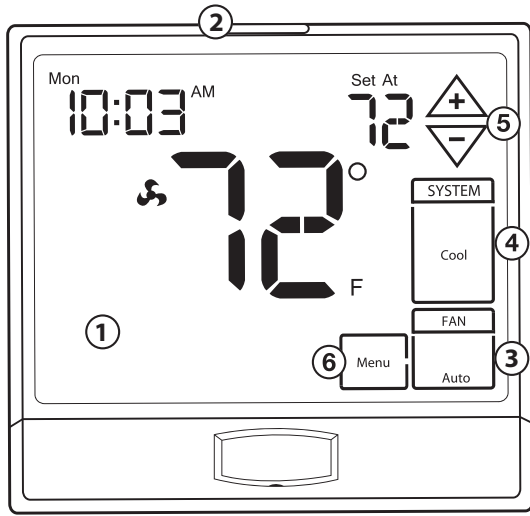
This thermostat is shipped from the factory to operate a conventional heating and cooling system. This thermostat may also be configured for a heat pump system. See the "heat pump" configuration step on page 17 of this manual to configure the thermostat for heat pump applications.

Terminal	2 Heat 2 Cool Conventional System	2 Heat 2 Cool Heat Pump System	3 Heat 2 Cool Heat Pump System
RC	Transformer power (cooling)	Transformer power (cooling)	Transformer power (cooling)
RH	Transformer power (heating)	Transformer power (heating)	Transformer power (heating)
C	Transformer common	Transformer common	Transformer common
B	Energized in heating	Heat pump changeover valve energized in heating	Heat pump changeover valve energized in heating
O	Energized in cooling	Heat pump changeover valve energized in cooling	Heat pump changeover valve energized in cooling
G	Fan relay	Fan relay	Fan relay
W/E	First stage of heat	First stage of emergency heat	First stage of emergency heat
Y	First stage of cool	First stage of heat & cool	First stage of heat & cool
Y2	Second stage of cool	Second stage of cool	Second stage of cool & second stage of heat
W2	Second stage of heat	Auxiliary heat relay, second stage of heat	Auxiliary heat relay, third stage of heat
S1/S2	Remote Sensor	Remote Sensor	Remote Sensor

Note:

Outdoor temperature sensor, Indoor temperature sensors, and Slab sensor wiring diagrams are located in the sensor manuals. See page 18 in tech setup.

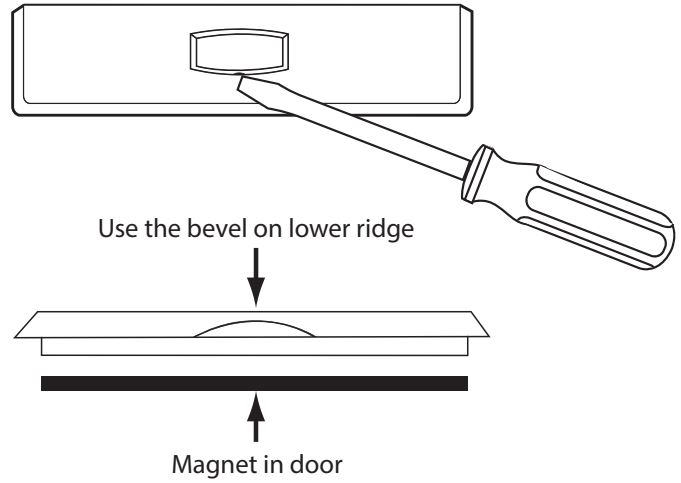
Getting to know your thermostat



- ① LCD Display
- ② Glow in the dark light button
- ③ Fan Key
- ④ System Key
- ⑤ Setpoint buttons
- ⑥ Menu button

About The Badge

All of our thermostats use the same universal magnetic badge. Visit the company website to learn more about our free private label program.

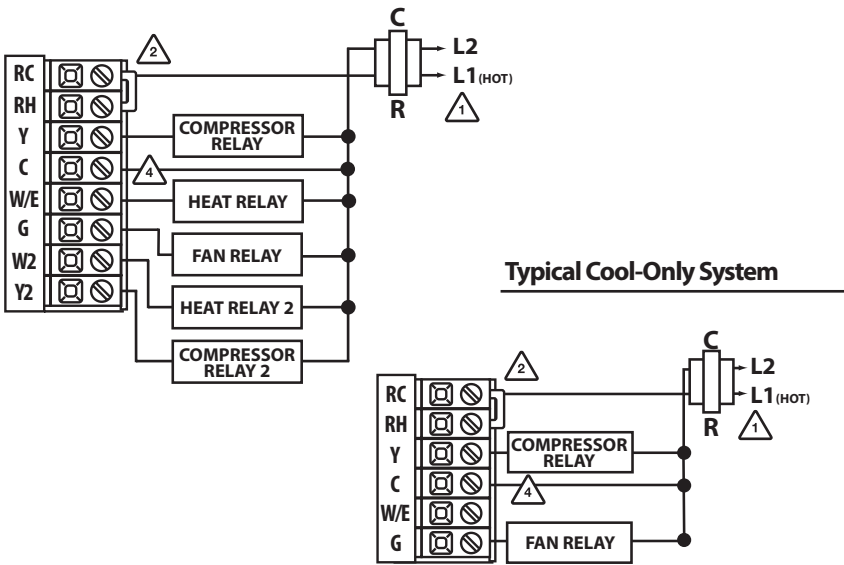


Gently slide a screwdriver into the bottom edge of the badge. Gently turn the screwdriver counter clockwise. The badge is held on by a magnet in the well of the battery door. The badge should pry off easily. **DO NOT USE FORCE.**

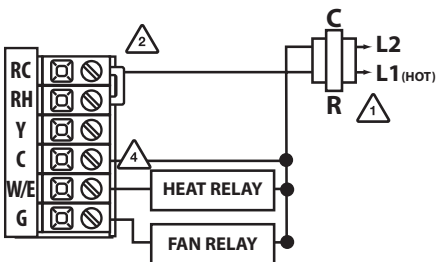
Wiring Diagrams

- ① Power supply
- ② Factory-installed jumper. Remove only when installing on 2-transformer systems

Typical 2H/2C System: 1 Transformer



Typical Heat Only System With Fan



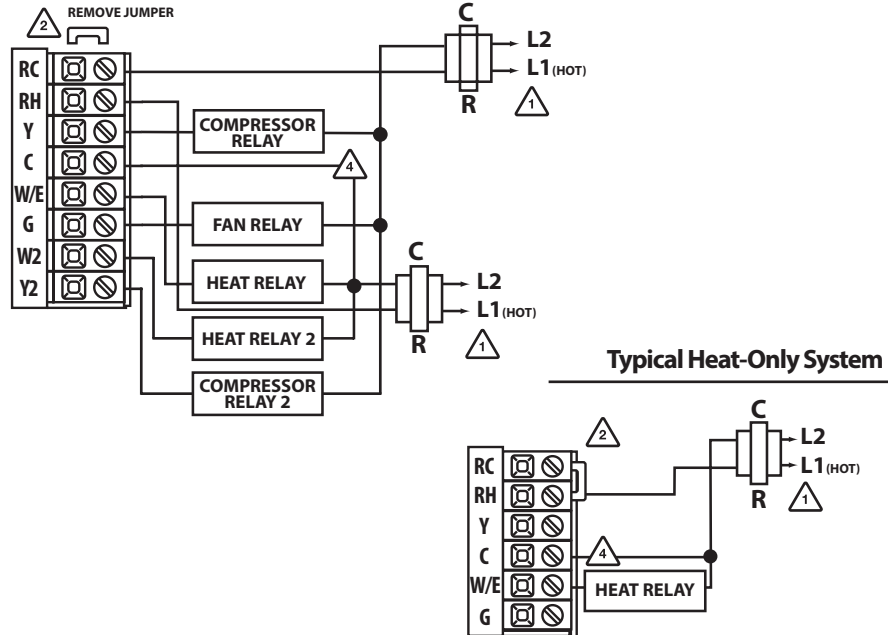
Note:

In many systems with no emergency heat relay a jumper can be installed between W/E and W2.

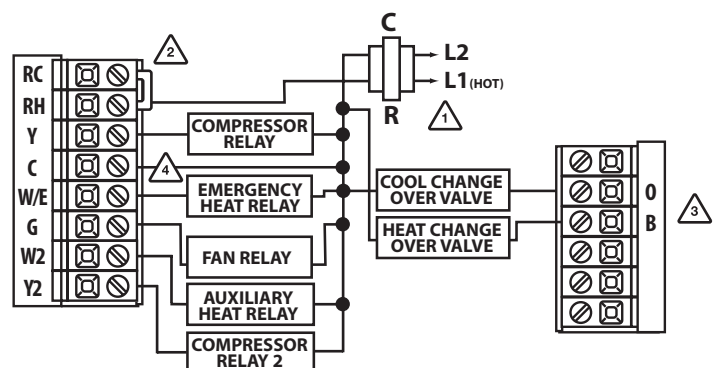
Wiring Diagrams

- ③ Use either O or B terminals for changeover valve
- ④ Optional 24 VAC common connection when thermostat is used in battery power mode

Typical 2H/2C System: 2 Transformer





Typical 3H/2C or 2H/1C Heat Pump System







Technician Setup Menu

This thermostat has a technician setup menu for easy installer configuration. To set up the thermostat for your particular application:



1. Press the **Menu** button.
2. Press and hold the **TECHNICIAN SETUP** button for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.
3. Configure the installer options as desired using the table below. Use the  or  keys to change settings and the **Previous** or **Next** key to move from one step to another. **Note:** Only press the **DONE** key when you want to exit the Technician Setup options.
4. Press the **DONE** key to exit.

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Filter Change Reminder	OFF FILTER 0000	You can adjust the filter change reminder from "OFF" to 2000 hours of runtime in 50 hour increments.	OFF
Room Temperature Calibration	0 CALIBRATE	You can adjust the room temperature display to read up to 4° above or below the factory calibrated reading.	0°F
Minimum Compressor On Time	OFF ON AN MIN COMP	You can set the minimum compressor run time to "OFF", "3", "4", or "5" minutes. If 3, 4 or 5 is selected, the compressor will run for at least the selected time before turning off.	OFF

Keypad Lockout Note: The selected keypad lockout functionality must be activated after exiting tech setup. If you do not perform this procedure, all keys will function freely. To lock the keypad hold down the  and  keys for 3 seconds. You will see a lock in the display. To unlock the display hold down the  and  keys for 3 seconds.

Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Compressor Short Cycle Delay	ON OF CO COMP DELAY	The compressor short cycle delay protects the compressor from "short cycling". This feature will not allow the compressor to be turned on for 5 minutes after it was last turned off.	ON
Cooling Swing	0.5 dF CO COOL SWING	The swing setting often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	0.5°
Heating Swing	0.4 dF HE HEAT SWING	The swing setting often called "cycle rate", "differential", or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	0.4°
Keypad Lockout	PA KEY LOCK	Keypad lockout allows you to configure the thermostat so that some or all of the keys don't function.	OFF

PA= partial keypad lockout, which locks all the keys except the  or  keys.
FU= full keypad lockout, which locks out all the keys.
See Keypad Lockout Note







Swing Setting Tip

The second stage will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached. For example, if the swing setting is .5 degrees for heating and the thermostat is set at 70°F, the first stage will turn on at approximately 69.5°F. The second stage will turn on at 69°F. The second stage will turn off at 69.5°F and the first will turn off at 70.5°F. If the third stage is used, it will turn on at 68.5°F and turn off at approximately 69°F.

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Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Heat Pump	OFF HEAT PUMP	OFF configures the thermostat for non heat pump systems. ON configures the thermostat for heat pump systems.	OFF
System Set	SYSTEM SET	Use the  or  key until the desired application is flashing. AUTO= Autochangeover	HEAT OFF COOL
Dual Fuel Auxiliary for Heat Pump <small>Will only appear if Heat Pump setting is turned ON</small>	ON AG GAS AUX	OFF will allow Y (1st stage of Heat) and W2 (Aux Heat) to run together if called for. ON Will de-energize Y terminal 45 seconds after a call for Auxiliary Heat (W2).	OFF
Stages of Heat	2H2C STAGE	 	2 STAGES
Cooling Fan Delay	COOL FAN DL	You can set the cooling fan delay to OFF, 15, 30, 60 or 90 seconds. If 15, 30, 60, or 90 is selected the fan will not turn on for that many seconds when there is a call for cool and will run for that many seconds after satisfying a call for cool.	OFF
IAQ Mode Cycle	OFF IAQ MODE CYCLE	Select OFF, 1, 2, 3 or 4 with the  or  keys. This sets the number of cycles per hour that the IAQ fan mode will operate.	OFF

Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
IAQ Mode Minutes	1 IAQ MODE MINUT	This allows you to select the minimum number of minutes that the fan will run per IAQ mode cycle. The thermostat will keep track of fan runtime from normal heat and cool operation. If additional fan runtime is needed, the thermostat will run the fan to satisfy the IAQ mode minutes.	1
Remote Sensor Operation	1 REMOTE MODE	You can configure the thermostat for one of three remote sensor applications: 0 No Sensor, 1 Indoor, 2 Outdoor, 3 Floor.	0
Local Temp Sensor	ON LOCAL TEMP	You can disable the sensor on the thermostat. At least one indoor remote sensor must be connected to disable the local sensor. Note: Will only show if remote sensor is set to 1.	ON
Number of Indoor Remotes	1 NUMBER OF REMO	Enables the use of up to sixteen indoor sensors. Note: Will only show Remote Sensor is set to 1 and Local Temp Sensor is set to on.	ON

S1 / S2 Terminal

Options	Mode	Description	Requires
1	Indoor	The local and remote temperatures are averaged.	R251S
2	Outdoor	The outdoor temperature is flashed in clock.	R250S
3	Floor	The floor temperature is shown in tech.	R250S

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Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Heating Temperature Setpoint Limit This feature allows you to set a maximum heating setpoint limit. The setpoint temperature cannot be raised above this value.	90 HE	Use the ◀ or ▶ key to select the maximum heat setpoint.	90°F
Cooling Temperature Setpoint Limit This feature allows you to set a minimum cooling setpoint limit. The setpoint temperature cannot be lowered below this value.	44 CO	Use the ◀ or ▶ key to select the minimum cool setpoint.	44°F
°F or °C This feature allows you to display temperatures in either Fahrenheit or Celsius.	°F 74° F	°F for Fahrenheit °C for Celsius	°F
12 or 24 Hour Clock You can select either a 12 or 24 hour clock setting.	12H CLOCK SET	Use the ◀ or ▶ key to select 12 or 24 hour clock.	12 HOUR CLOCK
Fan Operation Select GAS for systems that control the fan during a call for heat. Select ELEC to have the thermostat control the fan during a call for heat.	GAS FAN SET	GAS or ELEC	GAS
Morning Recovery This feature will start heating early to bring the building temperature to its programmed setpoint by the beginning of the WAKE, OCCUPIED time period.	ON MORN RECOV	Use the ◀ or ▶ key to turn on or off.	ON
Program Options You can configure this thermostat to have a 7 day program, a 5+1+1 program or as nonprogrammable.	5d PROGRAM	Use the ◀ or ▶ key to select 7d for 7 day, 5d for 5+1+1, or 0d for nonprogrammable.	5d
Time Periods You can configure this thermostat to have 2 or 4 programmable time periods per day. 4 time periods are Wake, Leave, Return & Sleep. 2C time periods are Occupied & Unoccupied. 4C time periods are Occupied 1, Unoccupied 1, Occupied 2, & Unoccupied 2.	4 TIME PERIOD	Use the ◀ or ▶ key to select 4, 2c, or 4c time periods per day.	4

Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Pre-Occupancy Fan The pre-occupancy fan settings will energize the fan before the occupied time to provide ventilation prior to scheduled occupancy. This feature only shows if the technician setup step for time periods is set to 2C or 4C.	OFF PRE OCCUPY FAN	You can select the pre-occupancy fan from OFF, 1, 2, or 3 hours. If 1, 2, or 3 is selected, the fan will turn on that many hours prior to the scheduled occupied time period.	OFF
Always ON Light The display light can be configured to stay on all the time or come on when any key is pressed. NOTE: HARDWARE ONLY Keeping the display light continually "ON" will greatly reduce battery life.	AUTO dl ANY KEY ON	Use the ◀ or ▶ key to turn on or off. OFF configures the display light to come on when the light key or any button is pressed. ON configures the display light to stay on.	AUTO
Contractor Call Number Allows you to put your phone number in the display. You can choose ON or OFF.	OFF PHONE NUM	If selected ON, you will see the input screen after pressing NEXT STEP . Use the ▲ or ▼ key to select the desired number and the ◀ or ▶ key to move from one character to another. See note below for operation.	OFF
Beep When any key is pressed an audible beep will sound. You can choose ON or OFF.	ON b	If ON is selected the beep will sound. If OFF is selected there is no sound.	ON

Contractor Call Number Note

If contractor call number is selected ON, the phone number entered will show in the display if there has been a continuous call for heating or cooling for 24 hours or if the light button is held down for 3 seconds. To remove the phone number from the display, hold the light button down for 3 seconds.

Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Balance Point Temp An outdoor temperature ABOVE this setting will LOCKOUT the auxiliary heat terminal (W2), and ONLY ALLOW the heat pump/compressor terminals (Y's) to energize. An outdoor temperature BELOW this setting can perform 2 different ways, depending on the previous Gas Aux/Dual Fuel setting. 1. If Gas Aux/Dual Fuel is set OFF (Default-typical Electric Aux setting) This will allow both heat pump (Y's) and auxiliary heat (W2) to run together. 2. If Gas Aux/Dual Fuel is set ON (typical Gas Auxiliary/Dual Fuel setting) This will LOCKOUT the heat pump (Y's) and ONLY ALLOW the auxiliary heat (W2) to energize. Only shows if Heat Pump is turned ON and Remote Sensor is set to 2. Requires Outdoor Sensor	NO BAL POINT	Use the ◀ or ▶ key to select NO (to not use this feature), or 10, 20, 30, 35, 40, 45, or 50 degrees.	NO
Balance Point Run Time Balance point run time will allow the W2 auxiliary terminal to energize even if outdoor temperature is above selected balance point temperature. If enabled, auxiliary will energize for the current cycle after the balance point run time has expired. Note: Only shows if Balance Point is set to an outdoor temperature.	NO BAL RUN TIME	15, 30, 45, 60, 75, 90 minutes NO	NO
Floor Temperature The temperature of the floor sensor will be displayed. Note: Only shows when REOP is set to 3.	76 FLOORTEMP	N/A	NA
Floor High Limit This setting allows you to set a maximum floor temperature limit for heat. Heat will be locked out when the floor temperature is above this value. Note: Only shows when REOP is set to 3.	86 HIGH LIMIT	Use the ◀ or ▶ keys to select the High Limit for the floor sensor. 35 - 120 degrees.	86

Technician Setup Menu

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
Floor Low Limit This setting allows you to set a minimum floor temperature limit for heat. Heat will turn on automatically when the floor temperature is below this value. Note: Only shows when REOP is set to 3.	50 LO LIMIT	Use the ◀ or ▶ keys to select the Low Limit for the floor sensor. 35 - 120 degrees.	50
Satisfy Setpoint This feature allows the thermostat to keep multiple stages of heat or cool energized until the setpoint is satisfied.	ON SS STAGING	Use the ◀ or ▶ key to turn on or off.	OFF
Staging Delay This feature allows a delay to occur if an additional stage is needed. This allows the previous stage extra time to satisfy the setpoint.	5 STAGING d1	Use the ◀ or ▶ key to select OFF, 5, 10, 15, 30, 45, 60, or 90 minutes.	OFF
Humidity Pad Reminder Enables a reminder for the user to change the humidity pad.	OFF HUM PAD 2000	Use the ◀ or ▶ key to select OFF, 600, 1000, 1500, or 2000. These represent hours of heat operation.	OFF
UV Lamp Reminder Enables a reminder for the user to change the UV light bulb.	OFF UV LAMP 00000	Use the ◀ or ▶ key to select OFF, 1YEAR, 2YEAR.	OFF
IAQ Cell Reminder Enables a reminder for the user to change the PHI Cell after 25,000 hrs.	250 IAQ CELL 25000	Use the ◀ or ▶ key to select OFF, or 250 (stands for 25,000 hours).	OFF

A Note about IAQ Mode







This programmable/selectable mode will operate the fan 1-4 cycles per hour, 1-45 minutes per cycle. Once programmed in tech setup, to enable this mode select "IAQ" with the fan key. Disable this mode by selecting "ON" or "AUTO" with the fan key.

Reminders: Once a reminder has been turned on and set, the elapsed time can be checked by navigating to its tech setup step. The elapsed time will then appear in the text field. It can also be reset at that time by holding down the Clean key button for 3 seconds. Resetting an expired reminder can be done without entering tech setup, by holding down the Clean key button for 3 seconds from the home screen.

Staging Delay Note: This step will not appear if using an outdoor balance point temperature.

Set Time (If using programming)

Follow the steps below to set the day of the week and current time:

1. Press the **Menu** button.
2. Press **Set Time**.
3. Day of the week is flashing. Use the  or  key to select the current day of the week.
4. Press **Next**.
5. The current hour is flashing. Use the  or  key to select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.
6. Press **Next**.
7. Minutes are now flashing. Use the  or  key to select current minutes.
8. Press **Done** when completed.

Programming

All our programmable thermostats are shipped with an energy saving default program. You can customize this default program by following the instructions in the **set program schedule section** starting on page 24.

Your thermostat can be programmed to have each day of the week programmed uniquely (7 days), all the weekdays the same with a separate program for Saturday and a separate program for Sunday (5+1+1), or non-programmable. For the 7-day and 5+1+1 programming modes, there are three time period options.

1. "4" Residential (**WAKE, LEAVE, RETURN, SLEEP**)
2. "2C" Commercial (**OCCUPIED, UNOCCUPIED**)
3. "4C" Commercial (**OCCUPIED 1, UNOCCUPIED 1, OCCUPIED 2, UNOCCUPIED 2**)

This thermostat has a programmable fan feature, which allows you to run the fan continually during any time period.

Default Programming

Factory Default Program				
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)
Weekday	Wake/OCC1	6 AM	70° F (21° C)	75° F (24° C)
	Leave/UNOCC1	8 AM	62° F (17° C)	83° F (28° C)
	Return/OCC2	6 PM	70° F (21° C)	75° F (24° C)
	Sleep/UNOCC2	10 PM	62° F (17° C)	78° F (26° C)
Saturday	Wake/OCC1	6 AM	70° F (21° C)	75° F (24° C)
	Leave/UNOCC1	8 AM	62° F (17° C)	83° F (28° C)
	Return/OCC2	6 PM	70° F (21° C)	75° F (24° C)
	Sleep/UNOCC2	10 PM	62° F (17° C)	78° F (26° C)
Sunday	Wake/OCC1	6 AM	70° F (21° C)	75° F (24° C)
	Leave/UNOCC1	8 AM	62° F (17° C)	83° F (28° C)
	Return/OCC2	6 PM	70° F (21° C)	75° F (24° C)
	Sleep/UNOCC2	10 PM	62° F (17° C)	78° F (26° C)





Programming

Set Program Schedule For Four Time Periods

(WAKE, LEAVE, RETURN, SLEEP or OCCUPIED 1, UNOCCUPIED 1, OCCUPIED 2, UNOCCUPIED 2)

To customize your 5+1+1 Program schedule, follow these steps:

Weekday:

1. Select **HEAT** or **COOL** with the system key.
Note: You have to program heat and cool each separately.
2. Press the **Menu** button (If menu does not appear first press **Run Schedule**).
3. Press **Set Schedule**. **Note:** Monday-Friday is displayed and the **WAKE/OCC1** icon is shown. You are now programming the **WAKE/OCC1** time period for the weekday setting.
4. Use the  or  key to make your time selection for the weekday **WAKE/OCC1** time period.
Note: If you want the fan to run continuously during this time period, select **ON** with the **FAN** key. If you want to use **IAQ** mode during this time period, select **IAQ** with the **FAN** key.
5. Then use the  or  key to make your setpoint selection for the weekday **WAKE/OCC1** period.
6. Press **Next**.
7. Repeat steps 4 through 6 for the weekday **LEAVE/UNOCC1** time period, **RETURN/OCC2** time period, and for the weekday **SLEEP/UNOCC2** time period.

Saturday:

Repeat steps 4 through 6 for the Saturday **WAKE/OCC1** time period, **LEAVE/UNOCC1** time period, **RETURN/OCC2** time period, and for the Saturday **SLEEP/UNOCC2** time period.





Sunday:

Repeat steps 4 through 6 for the Sunday **WAKE/OCC1** time period, **LEAVE/UNOCC1** time period, **RETURN/OCC2** time period, and for the Sunday **SLEEP/UNOCC2** time period.

Programming

To customize your 7 day Program schedule, follow these steps:

Monday:

1. Select **HEAT** or **COOL** with the **SYSTEM** key.
Note: You have to program heat and cool each separately.
2. Press the **Menu** button (If menu does not appear first, press **Run Schedule**).
3. Press **Set Schedule**. **Note:** Monday is displayed and the **WAKE/OCC1** icon is shown. You are now programming the **WAKE/OCC1** time period for that day.
4. Use the  or  key to make your time selection for that day's **WAKE/OCC1** time period.
Note: If you want the fan to run continuously during this time period, select **On** with the **FAN** key. If you want to use **IAQ** mode during this time period, select **IAQ** with the **FAN** key.
5. Then use the  or  key to make your setpoint selection for that day's **WAKE/OCC1** period.
6. Press **Next**.
7. Repeat steps 4 through 7 for that day's **LEAVE/UNOCC1** time period, for that day's **RETURN/OCC2** time period, and for that day's **SLEEP/UNOCC2** time period.

Repeat steps 4 through 7 for the remaining days of the week.

A Note About Auto Changeover:

In Auto you have the ability to switch between Auto Heat or Auto Cool by pressing the system key. This can be done once the current mode has reached its setpoint. For example: if in Auto Heat, the heat setpoint must be satisfied before the thermostat will allow you to switch to Auto Cool. You can switch out of Auto by holding down the **SYSTEM** key. To get back into Auto, you must toggle the system key to Auto.

Default Programming

Factory Default Program for 2 Time Periods				
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)
Weekday	OCCUPIED	8 AM	70°F (21°C)	72°F (22°C)
	UNOCCUPIED	6 PM	64°F (18°C)	80°F (27°C)
Saturday	OCCUPIED	8 AM	70°F (21°C)	72°F (22°C)
	UNOCCUPIED	6 PM	64°F (18°C)	80°F (27°C)
Sunday	OCCUPIED	8 AM	70°F (21°C)	72°F (22°C)
	UNOCCUPIED	6 PM	64°F (18°C)	80°F (27°C)





You can use the table on the next page to plan your customized program schedule if using 5+1+1.

Custom Program				
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)
Weekday	Wake/OCC1			
	Leave/UNOCC1			
	Return/OCC2			
	Sleep/UNOCC2			
	Occupied			
	Unoccupied			
Saturday	Wake/OCC1			
	Leave/UNOCC1			
	Return/OCC2			
	Sleep/UNOCC2			
	Occupied			
	Unoccupied			
Sunday	Wake/OCC1			
	Leave/UNOCC1			
	Return/OCC2			
	Sleep/UNOCC2			
	Occupied			
	Unoccupied			

Set Program Schedule For Two Time Periods (OCCUPIED, UNOCCUPIED)

To customize your 5+1+1 Program schedule, follow these steps:

Weekday:

- Select **HEAT** or **COOL** with the **SYSTEM** key.
Note: You have to program heat and cool each separately.
- Press the **Menu** button (If menu does not appear first, press **Run Schedule**).
- Press **Set Schedule**. **Note:** Monday-Friday is displayed and the **OCCUPIED** text is shown. You are now programming the **OCCUPIED** time period for the weekday setting.
- Use the  or  key to make your time selection for the weekday **OCCUPIED** time period.
Note: If you want the fan to run continuously during this time period, select **On** with the **FAN** key. If you want to use **IAQ** mode during this time period, select **IAQ** with the fan key.
- Then use the  or  key to make your setpoint selection for the weekday **OCCUPIED** period.
- Press **Next**.
- Repeat steps 4 through 7 for the weekday **UNOCCUPIED** time period.

Saturday:





Repeat steps 4 through 7 for the Saturday **OCCUPIED** time period and for the Saturday **UNOCCUPIED** time period.

Sunday:

Repeat steps 4 through 7 for the Sunday **OCCUPIED** time period, and for the Sunday **UNOCCUPIED** time period.

To customize your 7 day program schedule, follow these steps:

Monday:



- Select **HEAT** or **COOL** with the **SYSTEM** key.
Note: You have to program heat and cool each separately.
- Press the **Menu** button (If menu does not appear first press **Run Schedule**).
- Press **Set Schedule**. **Note:** Monday is displayed and the **OCCUPIED** text is shown. You are now programming the **OCCUPIED** time period for that day.
- Time is flashing. Use the  or  key to make your time selection for that day's **OCCUPIED** time period.
Note: If you want the fan to run continuously during this time period, select **On** with the **FAN** key. If you want to use **IAQ** mode during this time period, select **IAQ** with the fan key.
- Then use the  or  key to make your setpoint selection for that day's **OCCUPIED** period.
- Press **Next**.
- Repeat steps 4 through 7 for that day's **UNOCCUPIED** time period.



Repeat steps 4 through 7 for the remaining days of the week.

A Note About Programmable Fan:

The programmable fan feature will run the fan continuously during any time period it is programmed to be on. This is the best way to keep the air circulated and to eliminate hot and cold spots in your building. If using **IAQ** mode, set fan to **IAQ** for any time period.

Temporary & Permanent Hold Feature

Temporary Hold: The thermostat will display **HOLD** and **Run Schedule** on the bottom of the screen when you press the  or  key. If you do nothing, the temperature will remain at this setpoint temporarily for 4 hours. The program setpoint will then replace the temporary setpoint.

Permanent Hold: With a temporary hold set, If you press the **Hold** key at the bottom of your screen, you will see **Hold** appear next to the setpoint temperature in the display. The thermostat will now permanently stay at this setpoint and can be adjusted using the  or  keys.

To Return To Program: Press the **Run Schedule** key at the bottom of the screen to exit temporary and permanent holds.

Filter Change & Other Reminders

If your installing contractor has configured the thermostat to remind you when the air filter needs changed, you will see a reminder in the display when your air filter needs changed. the reminder will be shown in the display after your system has run long enough to require an air filter change.

Resetting the filter change reminder: When the reminder is displayed, you should change your air filter and reset the reminder by holding down the **“Clean”** key on the left side of the thermostat for 3 seconds. This thermostat also has other maintenance reminders (Humidity Pad, UV Lamp, and IAQ Cell), that are reset with the same procedure.

Remote Sensor Operation Options

Option #1 - Indoor / Local Temperature Sensor “ON”:

1. The displayed room temperature will display the average temperature of the thermostat and all remote sensors.
2. By pressing the lower left hand corner of the screen, the average temperature of just the remote sensor(s) will be displayed briefly in the clock field.

Option #1 - Indoor / Local Temperature Sensor OFF”:

1. The displayed room temperature will only show the average temperature of the remote sensor(s).

Option #2 - Outdoor:

1. The outdoor temperature will alternate briefly with the clock display.

Option #3 - Floor:

1. By pressing the lower left hand corner of the screen, the temperature of the floor sensor will be displayed briefly in the clock field.

Specifications

Specifications

The display range of temperature ...	41°F to 95°F (5°C to 35°C)
The control range of temperature....	44°F to 90°F (7°C to 32°C)
Load Rating.....	1 amp per terminal, 1.5 amp maximum all terminals combined
Swing (cycle rate or differential)	Heating is adjustable from 0.2° to 2.0° Cooling is adjustable from 0.2° to 2.0°
Power source	18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire Battery power from 2 AA Alkaline batteries
Operating ambient	32°F to +105°F (0°C to +41°C)
Operating humidity	90% non-condensing maximum
Dimensions of thermostat	4.7" W x 4.3" H x 1.1" D