Wall Locations



TP-S-855C

Vive Comfort

P.O. Box 337

Springfield, MO 65808-3377 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
Wired Remote Sensing	No
Any HVAC system up to 3H/2C with standard low voltage controlled humidifier.	No
Any HVAC system up to 3H/2C with standard low voltage controlled de-humidifier.	No

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Power Type

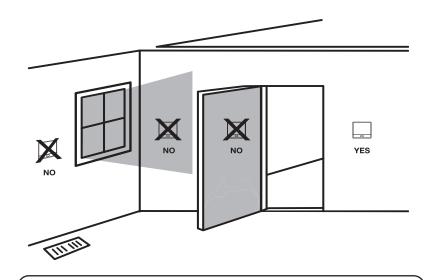
Battery Power Hardwire (Common Wire) Hardwire (Common Wire) with **Battery Backup**

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 espanol de este manual se puede descargar en la pagina web de la compania.

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.

Installation Tips

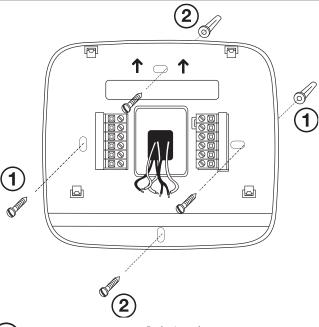
Subbase Installation

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Rev. 2019

Installation Tips

Mount Thermostat



Horizontal Mount

For horizontal mount put one screw on the left and one screw on the right.

Vertical Mount

For vertical mount put one screw on the top and one screw on the bottom.



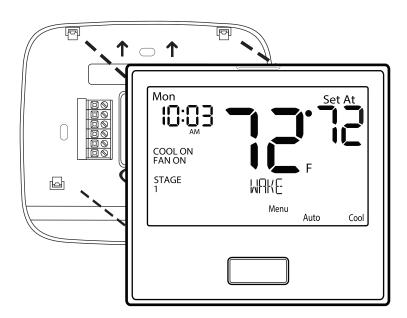
Installation Tip: Electrical Hazard

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.



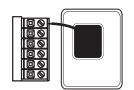
Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.

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

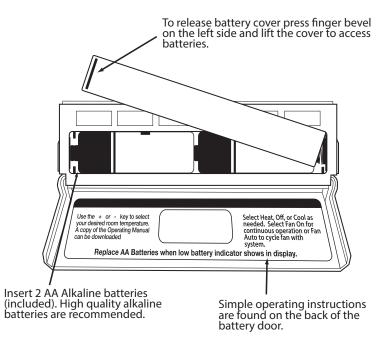
Battery Installation

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.

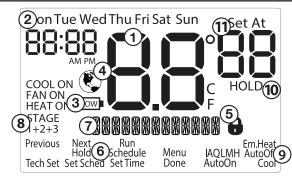


Important:

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



Getting to know your thermostat



- 1 Displays the current room temperature
- 2 Time and day of the week
- (3) Low Battery Indicator: Replace batteries when this indicator is shown.
- (4) Energy Efficient Globe:
- (5) **Keypad Lockout:** Lock the thermostat
- **(6) Program Menu Options:** Show different options during programming.
- Program Time Periods Residential: Uses 4 time periods WAKE, RETURN, LEAVE & SLEEP. Commercial: Uses 2 or 4 time periods that appear in the text field - Occupied & Unoccupied.
- 8 Staging Indicators: +1 will appear in the display when second stage of heat or cool is on. +2 will appear for the third stage of heat.
- System Operation Indicators: If these or the Fan indicator are flashing, it means that the system is in a delay of some type (compressor delay, cooling fan delay, staging delay).
- (10) Hold: is displayed when the thermostat program is permanently overridden.
- (11) Setpoint: Displays the user selectable setpoint temperature.

5

6

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

- 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.
- 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.

Wire Specifications

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

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.

Wiring

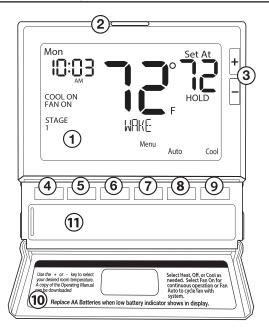
Terminal Designations

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 1 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)
С	Transformer common	Transformer common	Transformer common
В	Reversing valve / configerable terminal	Reversing valve / configerable terminal	Reversing valve / configerable terminal
0	Reversing valve / configerable terminal	Reversing valve / configerable terminal	Reversing valve / configerable terminal
G	Fan relay	Fan relay	Fan relay
W/E	First stage of heat	Emergency Heat	First stage of auxiliary heat
Υ	First stage of cool	First stage of heat & cool	First stage of heat & cool
Y2	Second stage of cool	N/A	Second stage of heat & cool
W2	Second stage of heat	Auxiliary heat	Secodn stage of auxiliary heat
S1/S2	Remote Sensor	Remote Sensor	Remote Sensor
Н	Humidify	Humidify	Humidify
D	Dehumidify	Dehumidify	Dehumidify

Thermostat Quick Reference

Getting to know your thermostat



- (1) LCD Display
- (2) Glow in the dark light button
- (3) Setpoint buttons
- (4-6) Program buttons
- (7) Menu button
- (8) Fan button
- (9) System button
- (10) Button/battery access door
- (11) Battery cover

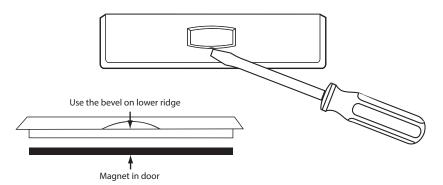


Important

The low battery icon is displayed when the AA battery power is low. Whenever the thermostat detects low battery voltage from the AA batteries, the low battery icon will begin flashing on the screen ftor 21 days (if the batteries are not changed). If the batteries are not changed 22 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed. If the batteries are not changed 43 days after the thermostat detects low battery voltage, the thermostat screen will only show the flashing battery icon until buttons are pressed and the set points will offset to 85°F/29°C in cooling and 55°F/13°C in heating. At this stage, set point changes can be made temporarily but, the set points will change back to defaulted values after a 4-hour period. The thermostat will continue to perform this low battery flashing, temperature offset condition until the internal voltage threshold is reached. When the thermostat internal voltage threshold is reached, all relays will be opened and the thermostat will become inoperable until new batteries are installed

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.

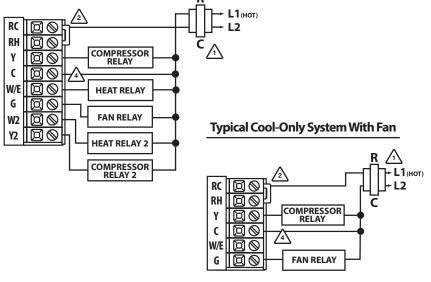


Wiring Diagrams

∕1 Power supply

🛕 Factory-installed jumper. Remove only when installing on 2-transformer systems 👍 Optional 24 VAC common connection when thermostat is used in battery power mode

Typical 2H/2C System: 1 Transformer

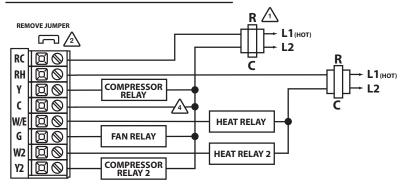


Wiring Diagrams

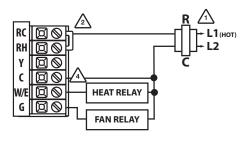
Use either O or B terminals for changeover valve

If DEHUM relay requires a normally-energized input, set Dehumidify relay to NC in Technician Setup.

Typical 2H/2C System: 2 Transformer



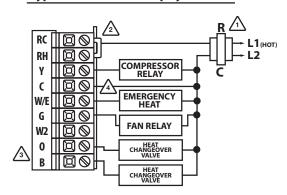
Typical Heat Only System With Fan



Note:

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

Typical 2H/1C Heat Pump System





(8)

Technician Setup Menu Technician Setup Menu This thermostat has a technician setup menu for easy installer **Tech Setup Steps** LCD Will Show Adjustment Options Default configuration. To set up the thermostat for your particular application: The swing setting often called The heating swing setting is "cycle rate", "differential", or adjustable from 0.2° to 2 1. Press the **MENU** button. "anticipation" is adjustable. A For example: A swing setting 2. Press and hold the **TECH SET** button for 3 seconds. This 3 of 0.5° will turn the heating smaller swing setting will cause Heating second delay is designed so that homeowners do not accidentally on at approximately 0.5° below the setpoint and turn more frequent cycles and a larger 0.4° Swing access the installer settings. swing setting will cause fewer the heating off at 0.5° above 3. Configure the installer options as desired using the table below. the setpoint. HERT SHING Use the ____ or ___ keys to change settings and the **NEXT** This setting allows the thermostat Use the 🛨 and 🖃 buttons to or **PREV** key to move from one step to another. to operate a PTAC. This will allow select ON/OFF. **Note:** Only press the **DONE** key when you want to exit the for multiple fan speeds selectable in the next two tech settings. **PTAC Mode** 0NTechniciań Setup options. 4. Press the **DONE** key to exit. This setting allows you to choose Use the 🛨 and 🖃 buttons to **Tech Setup Steps** LCD Will Show **Adjustment Options** Default the number of fan speeds the select, 2 or 3. PTAC Fan thermostat will control. You can adjust the filter change reminder from "OFF" to 2000 hours of runtime in This feature will flash a reminder Speeds 1. Speeds: ON, Auto after the elapsed run time to Filter Change 2. Speeds: Low, High, Auto remind the user to change the 0FF (Only displayed if PTAC mode is ON) Reminder 3. Speeds: Low, Med, High, filter. A setting of "OFF" will disable this feature. FILTER FRN SPEEDS This feature allows the installer This setting will select the Use the and buttons to You can adjust the room **PTAC Medium** to change the calibration of the temperature display to read terminal for medium fan speed select O/B terminals Room Fan Speed room temperature display. For up to 4° above or below the operations. The selected terminal $0^{\circ}F$ Temperature example, if the thermostat reads factory calibrated reading. Terminal cannot be used for reversing valve Calibration 70° and you would like it to read operations when heat pump is 0 (Only displayed if PTAC mode is ON and PTAC fan 72° then select +2. CAL IBRATE enabled. The swing setting often called The cooling swing setting "cycle rate", "differential" or is adjustable from 0.2° to MED FAN TERM speeds is set to 3) 2°. For example: A swing setting of 0.5° will turn the "anticipation" is adjustable. A smaller swing setting will cause When turned on the thermostat OFF configures the Cooling cooling on at approximately 0.5° above the setpoint and turn the cooling off at approximately 0.5° below will operate a heat pump. EM. Heat will show as an option in the thermostat for conventional more frequent cycles and a larger 0.5 Swing systems. swing setting will cause fewer **Heat Pump** system switch tech setting. **OFF** cvcles. ON configures the thermostat for heat pump Use the and button to COOL SHING the setpoint. adiust. systems. HERT PUMP **Swing Setting Tip** This setting allows you to select Use the $oldsymbol{\pm}$ and $oldsymbol{\Xi}$ buttons SH to select 1H. 2H. 3H. 4H. The second stage will turn on at 2x the swing setting. The second stage will the number of heat stages. Stages of turn off when 1x the swing is reached. For example, if the swing setting is .5 2HHERT Heat 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 STREES 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. 4 **Technician Setup Menu** Technician Setup Menu **Tech Setup Steps** LCD Will Show Default LCD Will Show Adjustment Options Default **Adjustment Options** Tech Setup Steps Use the 🛨 and 🖃 buttons This feature will start heating and Use the or □ key to This setting provides the option Fresh Air to select a terminal for Fresh Air to select O/B. cooling early to bring the building Terminal temperature to its programmed setpoint by the beginning of the damper functions. The selected (Only displayed if fresh air mode is turned ON. terminal cannot be used for ON **Pro Recovery** reversing valve operations when WAKE, RETURN and OCCUPIED 0 This setting cannot be used with PTAC, three the heat pump setting is turned time periods. RECOVERY on. stages of cool, or economizer This setting maximizes efficiency Use the → or key to FRESH R IR TRM turned on) and equipment longevity by Cycle increasing the heating and Use the 🛨 and 🖃 buttons to select 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, 55 or 60 minutes. This setting selects the minimum Minimizer cooling swing settings to 2° number of minutes that the fresh during the unoccupied and leave time periods. This will result in **OFF** Fresh Air air damper will be energized. 1 (Only displayed if Minutes significantly fewer system cycles. FRESH RIR MIN rogram optioin set to 5d or 7d) Use the + and - button to select 7d for 7 day, 5d for 5+1+1, or 0d for EYELE MIN You can configure this thermostat to have a 7 day program, a Keypad lockout allows you to Use the + and - buttons to 5+1+1 program or No program. non-programmable. configure the thermostat so some select OFF, BASC, PART, FULL OF - OFF= keypad lock-out has been disabled. or all of the keys don't function. Note: If 7d is selected, in set schedule you will program all seven days individually. BA - BASIC = basic keypad lockout locks the menu key. PA - PARTIAL= partial keypad lockout, which locks all the If 5d is selected, in set schedule you will program Monday — Friday together and Saturday and Sunday individually. Program 5d Keypad **Options OFF** Lockout keys except the or setpoint FU - FULL= full keypad If 0d is selected the thermostat becomes non-programmable and the Set Schedule button goes away lockout, which locks out all the kevs. KEY LOCKOUT PROGRAM You can configure this thermostat Use the 🛨 and 🖃 buttons to Use the 🛨 or 🖃 key to This feature allows you to set a to have 2 or 4 programmable select 4, 2C, or 4C time periods Heat select the maximum heat maximum heating setpoint limit. 90°F time periods per day. per day. Setpoint The setpoint temperature cannot be raised above this value. setpoint and the minimum cooling setpoint. **Time Periods** Limit HERT LIMIT 4: Wake, Leave, Return & Sleep. 2C: time periods are Occupied 4 (Only displayed if Keypad Lockout Note: The selected keypad lockout functionality must orogram optioin i set to 5d or 7d) & Unoccupied. be activated after exiting tech setup. If you do not perform this 4C: time periods are Occupied 1, Unoccupied 1, Occupied 2, & T IME PER IODS procedure, all keys will function freely. To lock the keypad hold down Unoccupied 2 the 🛨 and 🖃 kéys for 3 seconds. You will see a lock in the display. To unlock the display hold down the + and - keys for 3 seconds.

Technici	an Setup Menu				Technic	ian Setup Menu			
Tech Setup St	eps	LCD Will Show	Adjustment Options	Default	Tech Setup St	eps	LCD Will Show	Adjustment Options	Default
Stages of Cool	This setting allows you to select the number of cool stages.	20 000L 578685	Use the 🛨 and 🖃 buttons to select 1C, 2C, 3C.	2C	Minimum Compressor On Time	This feature allows the installer to select the minimum run time for the compressor. For example, a setting of 4 will force the compressor to run for at least 4 minutes every time the		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	OFF
System Set	You can configure the system switch for the particular application. Heat - Off - Cool, Heat - Off, Cool - Off, Heat - Off - Cool - Auto. Note: If heat pump is selected on then the options will be Heat-off-	SYSTEM SET AutoOff Em.Heat	Use the + or - buttons until the desired application is flashing. AUTO = (Auto Changeover)	OFF		compressor turns on, regardless of the room temperature. The compressor short cycle delay protects the compressor from "short cycling". This feature will	M IN COMP ON	before turning off. Use the and buttons to change the setting. Selecting "ON" will not allow the compressor to be turned on for 5 minutes after the	
Dual Fuel Auxiliary For Heat Pump	cool-EM Heat or Heat-off- cool This setting allows the system to run Gas, Oil, Propane or any other types of auxiliary heat. The thermostat will default to electric auxiliary heat in heat pump	Cool	Use the 🛨 and 🖃 buttons to select ON/OFF.	OFF	Compressor Short Cycle Delay	not altlow the compressor to be turned on for 5 minutes after it was last turned off. The cooling fan delay setting will	COMP DELAY	last time the compressor was on. Select "OFF" to remove this delay. Use the + and - buttons to change the setting. You can set the cooling fan	ON
Electric or Gas Fan Operation	applications. Select GAS to have the system control the fan during a call for heat, select Electric to have the thermostat control the fan during a call for heat. Note: If heat pump is set to "ON" this the will be the	GRS FRN SET	Use 🛨 and = buttons to change the setting.	GAS	Cooling Fan Delay	delay the fan from coming on in cool mode and keep it running after the compressor shuts off for a short time to save energy in some systems.	OF COOL FRN DL	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
Satisfy Setpoint Staging (Only displayed if there are more than one stage of heat or cool)	This feature allows the thermostat to keep multiple stages of heat or cool energized until the setpoint is satisfied.	SS STREINS	Use the 🛨 or 🖃 buttons to turn on of off.	OFF	Fresh Air Mode (This setting cannot be used with PTAC, three stages of cool, or economizer turned on)	This feature allows fresh air into a unit for a selectable time period. When Fresh Air Mode is enabled, the fan and the fresh air damper terminal will energize simultaneously.		Use the 🕒 and 🖃 buttons to select OFF, OC ON or ON. OFF: Thermostat does not enable Fresh Air Mode. OC ON: Fresh Air Mode is enabled during the OCCUPIED, WAKE, RETURN, and SLEEP time periods (It will not bring in fresh air during Unoccupied and Sleep time periods). ON: Thermostat will enable	OFF
Staging Delay (Only displayed if there are more than one stage of heat or cool)	This feature allows a delay to occur if an additional stage is needed. This allows the previous stage extra time to satisfy the setpoint. Note: Will not show if using outdoor sensor with balance point temperature.	STRG ING DELAY	Use the 🛨 or 🖃 key to select OFF, 5, 10, 15, 30, 45, 60, or 90 minutes.	OFF	curred only		FRESH 8 IR	Fresh Air Mode for every time periods.	
15									18
Technici	an Setup Menu				Technic	ian Setup Menu			
Tech Setup St	eps	LCD Will Show	Adjustment Options	Default	Tech Setup St	eps	LCD Will Show	Adjustment Options	Default
Cool Setpoint Limit	This feature allows you to set a minimum cooling setpoint limit. The setpoint temperature cannot be lowered below this value.	COOL L IM IT	Use the 🛨 or 🖃 key to select the minimum cooling setpoint.	44°F	Contractor	This feature allows you to put your phone number in the display. You can choose ON or OFF. Notes: If contractor call number is selected		If selected ON, you will see the input screen after pressing NEXT STEP. Use the	
°F or °C	This feature allows you to display temperatures in either Fahrenheit or Celsius.	F OR C SET	°F for Fahrenheit °C for Celsius	°F	Call Number	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		move from one character to another. See note below for operation.	OFF
12 or 24 Hour Clock	You can select either a 12 or 24 hour clock setting.	CLOCK SET	Use the ⊕ or ⊡ key to select 12 or 24 hour clock.	12H		This feature will configure the fan to run a selected number of cycles per hour. Note: This mode can be enabled or disabled at	PHONE NUMBER	Select OFF, 1, 2, 3 or 4 with the	
Pre Occupancy Fan	The pre-occupancy fan settings will energize the fan before the occupied time to provide ventilation prior to scheduled occupancy time periods. This feature only shows if the technician setup step for time periods is set to 2C or 4C. Use the 🕒 and 🖃 buttons to	OF.	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	IAQ Mode Cycle	anytime during normal operation by selecting IAQ mode with the fan key. Turning this feature on shows IAQ option in fan key. Notes: This programmable/selectable mode will operate the fan 1-4 cycles per hour, 1-45 minutes per cycle. Once		operate.	OFF
	adjust. The display light can be configured to stay on all the time or turn on when any key is pressed. There are LOW and	PRE-OCC FRN	Use the 🛨 and 🖃 buttons to select OFF, LOW, or HIGH. OFF configures the display light to come on when the	OFF If Battery		programmed in tech setúp, to enable this mode select "IAQ" with the fan key. Disable this mode by selecting "ON" or "AUTO" with the fan key.	PO HODE CYCL		
Display Light	HIGH selections for continuous ON selection. NOTE: The thermostat will need to be hardwired in order for the LOW and HIGH display light functions to work properly. "ALWAYS ON LIT" will alternate in the text field with "HARDWIRE ONLY" when HIGH is selected. These prompts will alternate every three seconds.	RURS ON LIFE	light to come on when the light key or any button is pressed. LOW configures the display light to stay on at a low intensity constantly. When a button is pressed, the display light will transition to high intensity. HIGH configures the display	Powered	If contract show in to cooling for	or Call Number Note tor call number is selected the display if there has been 24 hours or if the light the phone number from tonds.	en a continu button is he	ious call for heating o ld down for 3 second:	r s. To

If Hardwired

HIGH configures the display light to remain on at high intensity all the time.

HRROW RE ONLY



If the thermostat is hardwired this feature will default to LOW.

Technician Setup Menu **Tech Setup Steps** LCD Will Show Adjustment Options Default This allows you to select the Select 1, 5, 10, 15, 20, 30 or 45 minutes. When IAQ fan mode is minimum number of minutes that the fan will run per IAQ enabled, it will ensure the fan runs at least the selected mode cycle. The thermostat will keep track of fan runtime from number of minutes per IAQ Mode Cycle. This step will not appear if normal heat and cool operation. If additional fan runtime is needed, **IAQ Minutes** the thermostat will run the fan to previous step is set to "OFF". Notes: 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 1-1 cycles have been considered the select "IAQ" with the fan 1-1 cycles have been cycles on the fan 1-1 Per Cycle key. Disable this mode by selecting IRQ MODE M IN "ON" or "AUTO" with the fan key. Use the + or - key to select OFF, 1 YR, 2 YR Enables a reminder for the user to change the UV light bulb. **UV Lamp OFF** Reminder UV LAMP Use the 🛨 or 🖃 buttons to select OFF, or 25 (stands for Enables a reminder for the user to change the IAQ Cell after 25,000 hrs. IAQ Cell **OFF** Reminder IRO CELL

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.

Programming

Set Time 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.

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 set time/run sched button for 3 seconds. Resetting an expired reminder can be done without entering tech setup, by holding down the set time/run sched button for 3 seconds from the home screen.

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

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Programming

To customize your 7 day 4 time period 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 SCHED**).
- 3. Press SET SCHED. Note: Monday is displayed and the WAKE/OCC1 icon is shown. You are now programming the WAKE/OCC1 time period for that day.
- 4. Time is flashing. 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.** Press **NEXT.**
- The setpoint temperature is flashing. Use the + or + key to make your setpoint selection for that day's WAKE/OCC1 period.
- 7. Press NEXT.
- 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 8 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.

Programming

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

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

- 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 SCHED**).
- **3.** Press **SET SCHED**. **Note:** Monday-Friday is displayed and the **OCCUPIED** text is shown. You are now programming the **OCCUPIED** time period for that day.
- **4.** Time is flashing. 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.
- Press NEXT.
- **6.** The setpoint temperature is flashing. Use the + or key to make your setpoint selection for the weekday **OCCUPIED** period.
- 7. Press NEXT.
- **8.** 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.





Programming Pro

Set Program Schedule For Four Time Periods

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

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

- 1. Select **HEAT** or **COOL** with the system switch. **Note:** You have to program heat and cool each separately.
- 2. Press the **MENU** button (If menu does not appear first press **RUN SCHED**).
- **3.** Press **SET SCHED**. **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. Time is flashing. 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. Press NEXT.
- **6.** The setpoint temperature is flashing. Use the + or key to make your setpoint selection for the weekday **WAKE/OCC1** period.
- 7. Press NEXT.
- **8.** Repeat steps 4 through 7 for the weekday **LEAVE/UNOCC1** time period, for the weekday **RETURN/OCC2** time period, and for the weekday **SLEEP/UNOCC2** time period.

Saturday:

Repeat steps 4 through 7 for the Saturday **WAKE/OCC1** time period, for the Saturday **LEAVE/UNOCC1** time period, for the Saturday **RETURN/OCC2** time period, and for the Saturday **SLEEP/UNOCC2** time period.

Sunday:

Repeat steps 4 through 7 for the Sunday **WAKE/OCC1** time period, for the Sunday **LEAVE/UNOCC1** time period, for the Sunday **RETURN/OCC2** time period, and for the Sunday **SLEEP/UNOCC2** time period.

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	Custom Program					
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)		
	Wake/OCC1					
	Leave/UNOCC1					
Weekday	Return/OCC2					
ŕ	Sleep/UNOCC2					
	Occupied					
	Unoccupied					
	Wake/OCC1					
	Leave/UNOCC1					
Catanadan	Return/OCC2					
Saturday	Sleep/UNOCC2					
	Occupied					
	Unoccupied					
	Wake/OCC1					
	LeaveUNOCC1					
	Return/OCC2					
Sunday	Sleep/UNOCC2					
	Occupied					
	Unoccupied					

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Programming

To customize your 7 day 2 time period program schedule, follow these steps:

Monday:

- Select HEAT or COOL with the SYSTEM key. Note: You have to program heat and cool each seperately.
- Press the MENU button (If menu does not appear first press RUN SCHED).
- Press SET SCHED. Note: Monday is displayed and the OCCUPIED text is shown. You are now programming the OCCUPIED time period for that day.
- 4. 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.
- 5. Press NEXT.
- **6.** The setpoint temperature is flashing. Use the + or key to make your setpoint selection for that day's **OCCUPIED** period.
- 7. Press NEXT.
- **8.** Repeat steps 4 through 7 for that day's **UNOCCUPIED** time period.

Repeat steps 4 through 8 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.

Programming

Default Programming

Factory Default Program					
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)	
	Wake/OCC1	6 AM	70°F (21°C)	75°F (24°C)	
Weekday	Leave/UNOCC1	8 AM	62°F (17°C)	83°F (28°C)	
vveekuay	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)	
	Wake/OCC1	6 AM	70°F (21°C)	75°F (24°C)	
Constant	LeaveUNOCC1	8 AM	62°F (17°C)	83°F (28°C)	
Sunday	Return/OCC2	6 PM	70°F (21°C)	75°F (24°C)	
	Sleep/UNOCC2	10 PM	62°F (17°C)	78°F (26°C)	



Features

Default Programming

Factory Default Program for 2 Time Periods					
Day of the Week	Events	Time	Setpoint Temperature (HEAT)	Setpoint Temperature (COOL)	
Weststein	OCCUPIED	8 AM	70°F (21°C)	78°F (26°C)	
Weekday	UNOCCUPIED	6 PM	62°F (17°C)	83°F (28°C)	
Saturday	OCCUPIED	8 AM	70°F (21°C)	78°F (26°C)	
	UNOCCUPIED	6 PM	62°F (17°C)	83°F (28°C)	
Sunday	OCCUPIED	8 AM	70°F (21°C)	78°F (26°C)	
	UNOCCUPIED	6 PM	62°F (17°C)	83°F (28°C)	

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

Filter Change & Other Reminders

If the filter change reminder is enabled, 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 3rd button from 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.

Temporary & Permanent Hold Feature

Temporary Hold: The thermostat will display **HOLD** and **RUN SCHED** 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 below 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 SCHED** key at the bottom of the screen to exit temporary and permanent holds.





Specifications

Specifications

The display range of temperature The control range of temperature Load Rating	44°F to 90°F (7°C to 32°C)
Swing (cycle rate or differential)	
Power source	18 to 30 VAC, NEC Class II, 50/60 Hz
	Battery power from 2 AA Alkaline batteries
	32°F to +105°F (0°C to +41°C)

