Austin Energy
Austin's Community-Owned Electric Utility

Power Partner SuperStat™ User's Guide

Introduction

The Honeywell SuperStat™ thermostat allows full weekday/weekend programming so you can control the temperature according to your personal schedule and preferences.

When programmed according to the instructions in this guide, your SuperStat™ will keep you comfortable, save energy and money, and reduce peak summer demand for electricity.

Your SuperStat™ contains a communications module that allows Austin Energy to communicate with your thermostat. The thermostat receives a signal to cycle off your central air conditioner or heat pump to limit your electric use during peak demand times.

If you have questions concerning your SuperStat™ thermostat or the Power Partner program, please contact us toll-free at 1-877-549-2774.

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Setback Recovery

Recovery refers to the process the SuperStat™ thermostat uses to return the house from the energy savings setting you select when you are away or asleep, to the temperature you prefer when you are home and awake.

Your SuperStat™ thermostat uses a recovery process that turns your heating/cooling equipment on or off at the time you program the temperature to change. For example, if you program the thermostat's heating program to 72 F at 6:00 a.m., the heating equipment will come on at 6:00 a.m. and begin warming the house to 72 F. If you want the temperature in the house to be 72 F at 6:00 a.m., program the thermostat to come on at an earlier time, such as 5:30 a.m. The exact amount of time it takes your home to warm or cool to the temperature you want depends on many factors, such as the size of your heating/cooling equipment, outdoor temperature, and how well your home is weatherized. Use the charts on page 3 to track your temperatures.

Setting Your Thermostat

You will find it helpful to complete the personal programming charts before you begin programming your thermostat. Plan your program schedule for various times of the day by using your personal programming chart. Temperatures cannot be set any higher than 88 F or any lower than 45 F.

Four time settings are available for weekdays, Saturdays, and Sundays. They are **wake, leave, return,** and **sleep.** These settings can be displayed individually on your SuperStat™ thermostat as you press the weekday schedule or weekend schedule keys. You may want to enter a different schedule for the cooling and heating seasons.

Wake. Set the wake time earlier than your alarm clock so the house has time to warm up or cool down to a comfortable temperature before you wake up.

Leave. When you leave the house, you can save energy by setting the thermostat to control the temperature higher or lower (depending on season).

Return. You want the house at a comfortable temperature when you return and go about the normal activities of your day before bedtime. Set the return time earlier than the time you actually get home, so the house has time to warm up or cool down before you arrive.

Sleep. For more comfortable sleeping, while saving energy, you can set the thermostat to control the temperature higher or lower.

Personal Programming Charts

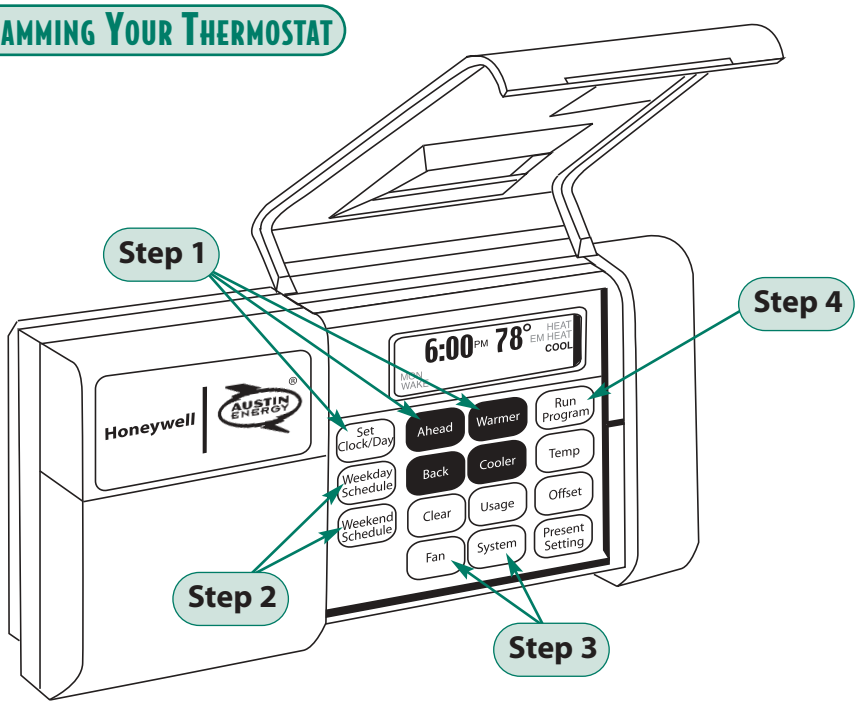
Your Cooling Schedule for Summer

		Time	Cooling Temperature
Weekday	Wake		
	Leave		
	Return		
	Sleep		
Saturday	Wake		
	Leave		
	Return		
	Sleep		
Sunday	Wake		
	Leave		
	Return		
	Sleep		

Your Heating Schedule for Winter

		Time	Heating Temperature
Weekday	Wake		
	Leave		
	Return		
	Sleep		
Saturday	Wake		
	Leave		
	Return		
	Sleep		
Sunday	Wake		
	Leave		
	Return		
	Sleep		

Programming Your Thermostat



When pressing the keys, use your finger or a soft pencil eraser. Using sharp fingernails or pencil points can damage the keypad. If you make a mistake during programming, press the ***run program*** key and reprogram the time and temperature.

Run Program

Step 1. **Setting the current time/day.** To set the time, press and release the ***set clock/day*** key once. Press the ***ahead*** or ***back*** keys until the current time is displayed. To set the day, press and release the ***set clock/day*** key again. Press the ***ahead*** or ***back*** keys until the current day is displayed. After you have set the time and day, press the ***run program*** key.

Set Clock/Day

Ahead

Back

Run Program

Step 2. **Entering the program schedules.** Refer to your personal programming charts on page 3 for your heating and cooling schedules and proceed as follows: Press the ***system*** key until the thermostat displays the word **heat/cool** to indicate you are in the heating/cooling mode. Press and release the ***weekday schedule*** key once. The words **wake, mon...fri,** and **set** appear on the display. Press the ***ahead*** or ***back*** keys to set the weekday wake time from your personal programming charts. Press the ***warmer/cooler*** keys to set the weekday wake temperature from your personal programming charts. Repeat the above sequence for the other weekday schedules, **leave, return,** and **sleep.** Press the ***weekend schedule*** key once so that **run, wake,** and **set** appear on the display. Set the **wake, leave, return,** and **sleep** times by following the same instructions as a weekday schedule.

System

Weekday Schedule

Ahead

Back

Warmer

Cooler

Weekend Schedule

Step 3. **Setting the system and fan controls.** After programming the thermostat, set the system and fan controls as follows: If you have a conventional heating/cooling system, the system can be set to **heat, cool,** or **off.** If you have a heat pump, it can be set to **heat, em. heat, cool,** or **off.**

You can change the system setting by pressing the ***system*** key. Each time you press the ***system*** key, the system status changes to the next setting. The system status is as follows when the associated indicator is displayed:

System

Heat: The thermostat will control your heating system according to the schedule you have programmed (heat pump in heating mode).
Em. Heat: The emergency heater element of the heat pump is on.
Cool: The thermostat will control your air conditioning system according to the schedule you have programmed (heat pump in cooling mode).
No status display: Both the heating and air conditioning systems are off (heat pump off).
Fan control: There are two fan settings: **auto** and **on**. Set the fan by pressing the ***fan*** key. Each time you press the ***fan*** key, the fan status changes to the next setting. When **fan** is displayed, the fan is on continuously. Use this setting for improved air circulation during special occasions or for more efficient electronic air cleaning. When nothing is displayed, the fan is in **auto mode** (it comes on with the heating or cooling equipment, as needed). **Auto** is the normal setting for most homes and allows a single-speed fan to turn on automatically with the air conditioner or heating system. If you have a two-speed fan, it runs on high with the air conditioner, and on low with the heating system.

Fan

Step 4. Starting the thermostat program. To start the thermostat using the program you just entered, press the ***run program*** key. If you decide not to program the thermostat, it automatically controls heating and cooling temperature as follows: starting at 6:00 a.m. every day, the thermostat sets the heating temperature to 68 F and the cooling temperature to 76 F. At 10:00 p.m. every night, the thermostat sets the heating temperature back to 60 F and the cooling temperature remains at 76 F. You do not need to enter a time and temperature program for every period if your schedule does not require it. For example, if your house is occupied during the day on weekdays, you may program only the wake and sleep times.

Run Program

Operating Your Thermostat

You want your thermostat to run according to the settings you program. These operations will give you greater control for additional comfort.

Temporarily change temperature settings for the current period only. Press the ***warmer/cooler*** keys until the desired temperature is displayed. The temporary setting stays in effect only until the next scheduled program change. To cancel the temperature change, press the ***run program*** key. When a temporary setting is in effect, the display alternates between the time/temperature and the temporary setting.

Warmer
Cooler
Run Program

Holding a temperature indefinitely. You may find this operation useful when you go out of town on business or on vacation. Press the **hold temp** key, then set the temperature using the ***warmer*** or ***cooler*** keys. This temperature stays in effect until you press the ***run program*** key or the ***present setting*** key.

Warmer
Cooler

Checking the current temperature setting. To check the current (programmed) temperature setting, press the ***present setting*** key.

Run Program
Present Setting

Review the programs you entered. Press the ***weekday schedule*** or ***weekend schedule*** key. Each time you press the key, the next program schedule is displayed. You may use this feature to verify that you correctly entered the program shown in your personal programming charts.

Weekday Schedule
Weekend Schedule

Cancelling a program. You may cancel a program by pressing the ***weekday schedule*** or ***weekend schedule*** key until the program you want to cancel is displayed; then press the ***clear*** key. The weekday wake program cannot be cancelled.

Clear

Checking your usage. Your thermostat keeps a record of the current and accumulated on-time usage of your heating and cooling equipment. It tracks current day usage (since midnight) and accumulated usage (since the accumulator was last cleared). To view heating or cooling equipment usage, press the ***system*** key

System

to display heat or cool, then press the ***usage*** key. Each time you press the ***usage*** key, the thermostat displays the next usage value. The thermostat displays current usage the first time you press the usage key and accumulated usage the next time you press the ***usage*** key. Press the ***run program*** key to stop viewing usage. Current day usage is automatically cleared at midnight. To clear an accumulated value, press the ***usage*** key until the value you want to clear is displayed and then press the ***clear*** key.

Changing a program permanently. To permanently change a program, repeat the appropriate steps in Programming Your Thermostat on page 4.

Returning to normal program or start program. When you want to return to the normal program or start the program, press the ***run program*** key. If you temporarily changed the temperature or you used the ***hold temp*** key, pressing the ***run program*** key will cancel your change.

Changing fan or system control settings. Change the fan setting by pressing the ***fan*** key. Each time you press the key, the fan status changes to the next setting. When fan is displayed, the fan is on continuously. When nothing is displayed, the fan is in **auto mode** (it comes on with the heating or cooling equipment as needed). Change the system setting by pressing the ***system*** key. Each time you press the key, the system status changes to the next setting.

Usage

Run Program

Clear

Run Program

Hold Temp

Run Program

Fan

System

Thermostat Operation When Cycling Is In Effect

Normally, your thermostat operates as you programmed it. However, during the summer when the system is in the **cycle mode,** it may not operate as you expect. Before calling for service, read the following information.

While cycling is occurring, the word **saving** is displayed on the thermostat. When cycling is occurring, the amount of time your cooling system can operate is controlled by a radio signal from Austin Energy. If you notice the temperature in your home is higher than the setting you programmed into the thermostat, check the thermostat display. The thermostat will display the word **saving** to indicate the equipment is being cycled. You cannot control your cooling equipment when it is being cycled. When cycling stops, your cooling equipment may not be immediately available. To prevent damage to your cooling equipment and to allow Austin Energy to bring the equipment back on-line effectively, your thermostat automatically calculates and initiates a time-delay before the cooling equipment comes on. You cannot override this time delay.

Replacing the thermostat batteries. Important: Batteries must be sufficiently charged to maintain time and date in the event of a power outage. Although the thermostat has a "low battery" indicator, replace batteries every two years to prevent the thermostat from losing its time/date information in the event of a momentary power outage. The first set of batteries will be provided when the thermostat is installed. As the batteries run low, the display shows **batlo.** This low battery indication flashes for one or two months before the batteries run out completely. Replace batteries as soon as possible after the indicator starts flashing. You will need two AA alkaline batteries; non-alkaline batteries will not last, and can leak, causing damage to the thermostat or the wall surface. The manufacturer and Austin Energy recommend using alkaline batteries.

To replace batteries. Use a coin to carefully remove the battery door on the front of the unit. Press down on the left ends of batteries to remove them and discard. Install fresh batteries. Make sure positive and negative terminals are oriented correctly. Replace the battery door.

Troubleshooting Tips

If display will not come on.

- There is no power supplied to the thermostat. Check fuse or circuit breaker.

If temperature display will not go lower than 45 F or higher than 88 Fduring programming.

- You have reached the temperature setting limit. The setting range is 45 F to 88 F.

If temperature change occurs at the wrong times.

- Check the program times for the period in question. Be sure that AM and PM indications are correct. Make sure the current day and time are correct. Reprogram if necessary. Keep in mind that it takes time for the system to recover. Read Setback Recovery section on page 2.

If heating will not come on.

- Check that the system control on the thermostat is set to heat. If the temperature is higher than the current temperature and the display shows heat, contact the Power Partner program toll-free at **1-877-549-2774.**

If cooling will not come on.

- Check that the system control on the thermostat is set to cool.
- Check the system fuse or circuit breaker. Replace or reset if needed.
- Check the display. If saving is displayed, you are in the cycling mode and your thermostat is under the control of Austin Energy. Cooling will come on when cycling ends.
- The thermostat has a built-in time delay on cooling. To prevent equipment damage, allow five minutes after changing the setting before the air conditioner starts.
- If the temperature setting is lower than the current temperature and the display shows cool, set the system control to the off setting for ten minutes. After ten minutes, return the system control to the cool setting. If the air conditioner comes on, the compressor may have reached its high limit temperature protection and shut down. If the air conditioner does not come on after ten minutes and the display shows cool, contact the Power Partner program toll-free at **1-877-549-2774.**

If the house is too warm or too cool.

- Press the ***present setting*** key to check the current temperature setting.
- If desired, change the temperature setting. See Operating Your Thermostat section on page 5.

If system on (heat, em. heat, or cool) indicator is lit, but no heat is coming from the registers.

- Allow time for the furnace or heat pump to heat up and the fan to come on before checking for heat at the registers.

The thermostat's current setting does not match display temperature.

- It is normal for the current setting and display temperature to differ occasionally.
- During recovery from setback, the temperature may differ to within ±1 F for up to thirty minutes after the recovery period.

Incorrect room temperature showing on thermostat display.

- The thermostat is factory-calibrated and cannot be adjusted.

Toll-Free Customer Assistance

If additional assistance is needed, please call Austin Energy's Power Partner program toll-free at 1-877-549-2774.

Additional Residential Resources

Austin Energy offers a variety of energy conservation programs to help keep your home energy efficient. You can perform your own on-line Home Energy Analysis. For more information about our programs, visit our Web site at www.austinenergy.com or call us at 512-974-7827.

- Appliance Efficiency Program
- Cycle Saver Program
- Duct Diagnostic Program
- Energy Star Appliance Program
- Free Home Energy Work
- Green Building Program
- Green Choice Program
- Multi-Family Program
- Total Home Efficiency Program

Commercial Building Thermostat Users

The programming features of the SuperStat™ thermostat for your commercial building(s) are identical to the residential SuperStat™ features. The following information explains how to use your thermostat for commercial use.

Setting Your Thermostat For Commercial Use

Settings for wake, leave, return, and sleep modes will take on different meanings when programming your thermostat for commercial buildings.

You may need the temperature of your building to be set before or when you arrive (wake) and may also need it to change again when your customers start to arrive (leave). Additionally, you may want the temperature to change at the end of the business day (return) when customers are no longer present. You have the option to change it when you leave for the day (sleep).

You will find it helpful to complete the personal programming charts before you begin programming your thermostat. Plan your program schedule according to the times of your business needs. Temperatures cannot be set any higher than 88 F or any lower than 45 F.

Wake (Employee Arrival). Use this setting for the time employees arrive at work. For example, if your business opens at 8 a.m., program your setting approximately one hour earlier, or around 7 a.m., when employees arrive.

Leave (Customer Arrival). Although this may seem confusing, use this setting for the hour that your business opens its doors to customers.

Return (Close of Business). Use this setting for the hour that your business closes its door to customers.

Sleep (Departure). Use this setting as the time employees leave the building for the day and no heating or will be required.

Note: Not all businesses will require entering a time and temperature program for every period.

Toll-Free Customer Assistance

If additional assistance is needed, please call Austin Energy's Power Partner program toll-free at 1-877-549-2774.

Additional Commercial Resources

Austin Energy offers a variety of energy conservation programs to help keep your business energy efficient. For more information about our energy conservation programs, call us at 512-974-7827 or visit our Web site at **www.austinenergy.com** where you can also perform your own Business Energy Analysis, request an on-site energy audit or learn about available technologies with our Energy Products Guide.

- Commercial Rebate Program
- Cycle Saver Program
- Green Building Program
- Green Choice Program
- Multi-Family Program
- Small Business Lighting Program

COMMERCIAL PROGRAMMING CHARTS

Your Cooling Schedule for Summer

		Time	Temp
Weekday	Wake (Employee Arrival)		
	Leave (Customer Arrival)		
	Return (Close of Business)		
	Sleep (Departure)		
Saturday	Wake (Employee Arrival)		
	Leave (Customer Arrival)		
	Return (Close of Business)		
	Sleep (Departure)		
Sunday	Wake (Employee Arrival)		
	Leave (Customer Arrival)		
	Return (Close of Business)		
	Sleep (Departure)		

Your Heating Schedule for Winter

		Time	Temp
Weekday	Wake (Employee Arrival)		
	Leave (Customer Arrival)		
	Return (Close of Business)		
	Sleep (Departure)		
Saturday	Wake (Employee Arrival)		
	Leave (Customer Arrival)		
	Return (Close of Business)		
	Sleep (Departure)		
Sunday	Wake (Employee Arrival)		
	Leave (Customer Arrival)		
	Return (Close of Business)		
	Sleep (Departure)		