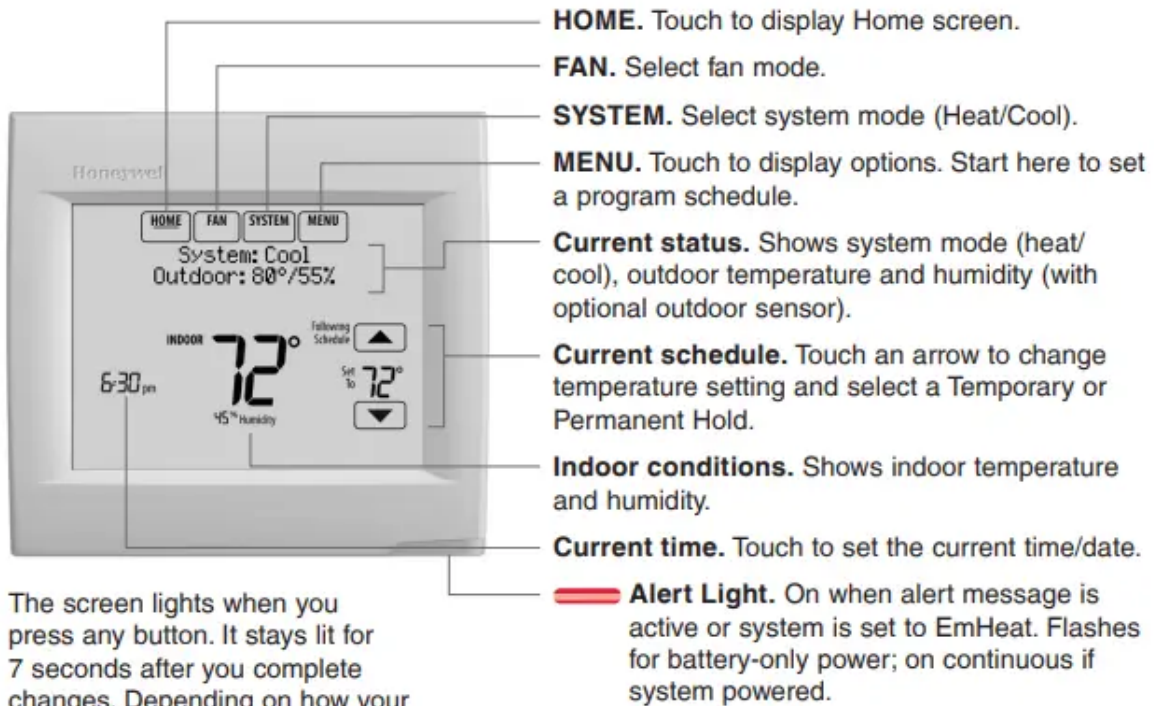


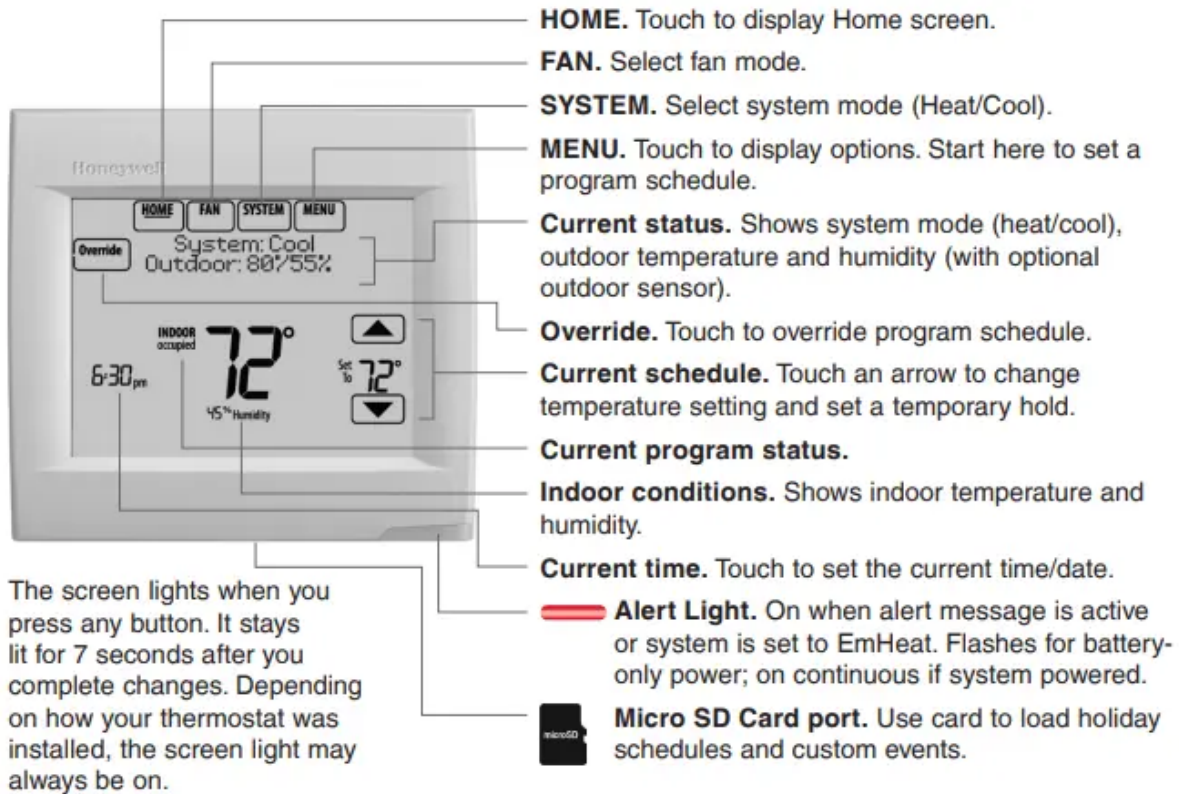
Programming and Operation

Quick reference: residential use



The screen lights when you press any button. It stays lit for 7 seconds after you complete changes. Depending on how your thermostat was installed, the screen light may always be on.

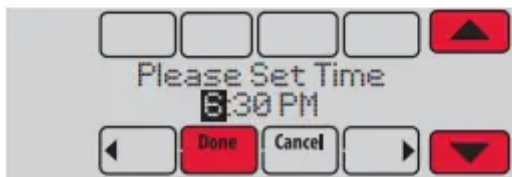
Quick reference: commercial use



Setting the time/date

1. Touch the current time. The screen displays Select Option.
2. Touch Time or Date, then touch Select.
3. Touch ▲ or ▼ until the proper time/date is displayed.
4. Touch Done to save or Cancel to ignore changes.
5. Touch Home to redisplay the Home screen.

NOTE: The date is not shown on the home screen; however, it should be set to allow the thermostat to adjust time automatically for daylight saving time and for other features such as vacation hold.



Setting the fan

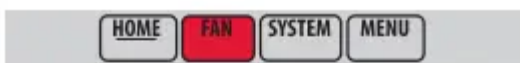
1. Touch FAN to display fan settings.
2. Touch On, Auto, Circ, or Follow Schedule.
3. Touch Done to save and exit.

On: Fan is always on.

Auto: Fan runs only when the heating or cooling system is on.

Circ: Fan runs randomly about 35% of the time (residential use only).

Follow Schedule: Fan controlled by program (see pages 8–12).



NOTE: In commercial use, touch Auto or On to temporarily override the programmed fan schedule.

Setting system mode

1. Touch SYSTEM to display system settings.

2. Touch desired option:

- Heat: Controls only the heating system.
- Cool: Controls only the cooling system.
- Off: Heating/cooling systems are off.
- Auto: Selects heating or cooling depending on the indoor temperature.
- Em Heat (heat pumps with aux. heat): Controls auxiliary/emergency heat. Compressor is locked out.

3. Touch Done to save and exit.



NOTE: The Auto and Em Heat system settings may not appear, depending on how your thermostat was installed.

Preset energy-saving schedules

This thermostat uses default Energy Saver settings that can reduce your heating/cooling expenses. To customize settings, see next page.

	Period	Start time	Heat	Cool	Heat	Cool
			(Mon-Fri)	(Mon-Fri)	(Sat-Sun)	(Sat-Sun)
Residential Use	Wake	6:00 am	70°	78°	70°	78°
	Leave	8:00 am	62°	85°	62°	85°
	Return	6:00 pm	70°	78°	70°	78°
	Sleep	10:00 pm	62°	82°	62°	82°
Commercial Use	Period	Start time	Heat	Cool	Fan	
	Occupied 1	8:00 am	70°	75°	On	
	Unoccupied 1	10:00 pm	55°	85°	Auto	
	Occupied 2*	12:00 am	70°	75°	On	
	Unoccupied 2*	12:00 am	55°	85°	Auto	

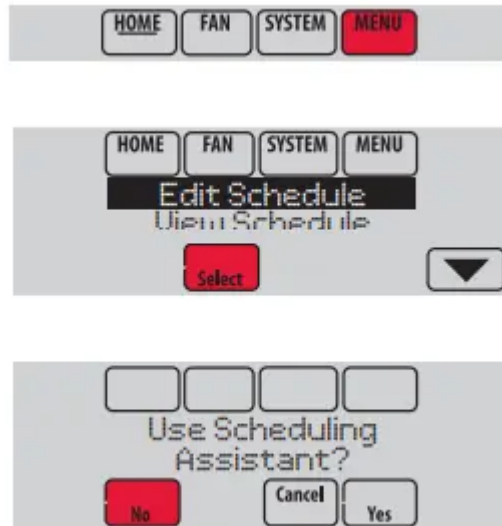
* Period 2 is cancelled by default. If you activate it, the values shown above are default settings.

Adjusting program schedules

1. Touch MENU.

2. Select Edit Schedule to display Use Scheduling Assistant?

- Touch Yes to create a schedule by answering simple questions.
- Touch No to manually create a program schedule. See page 10.
- **NOTE:** To reduce costs, use the preset Energy Saver settings described on



page 8.

3. Select the days to schedule, touch Next.

4. Touch ▲ or ▼ to set your Wake time for selected day(s).

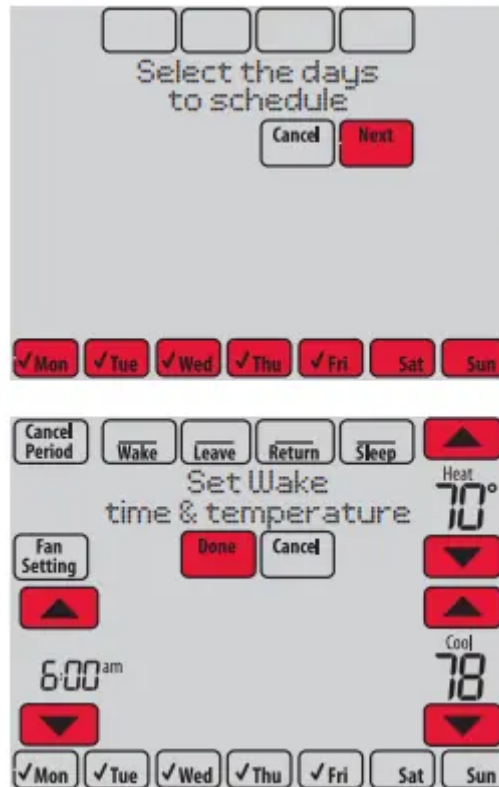
5. Touch ▲ or ▼ to set Heat and Cool temperatures for the Wake period.

6. Touch other time periods (Leave, Return, Sleep) to set time and temperatures for each.

7. Touch Done to save and exit (Touch Cancel to exit without saving changes).

NOTE: Touch Cancel Period to eliminate any unwanted time period.

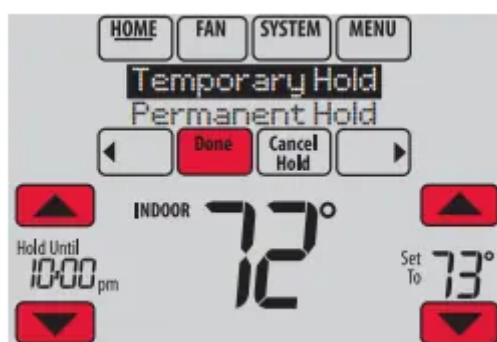
NOTE: Touch Fan Setting to customize fan settings for any time period.



Overriding schedules: residential use

1. Touch ▲ or ▼ to adjust the temperature (right side of screen) and the Hold Until time (left side). The schedule will resume when the Hold Until time expires.
2. Select Permanent Hold to keep the same temperature until you change it or resume the program schedule.

Touch Cancel Hold at any time to resume the program schedule.



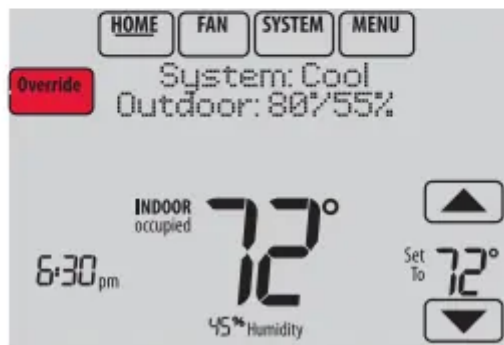
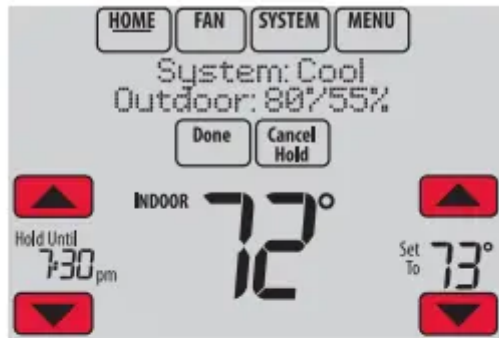
Overriding schedules: commercial use

Touch ▲ or ▼ to adjust the temperature. It will be maintained until the hold time you set.

- To change the hold time, touch the Hold Until arrow buttons. This time can be adjusted up to the maximum time set by the installer.

- Touch Override to use a pre-set occupied temperature if a person uses the room during an unoccupied period. The new temperature will be maintained for 1 hour and can be adjusted up to the maximum time set by the installer.

The programmed schedule will resume when the override timer expires. Touch Cancel Hold at any time to resume the program schedule.

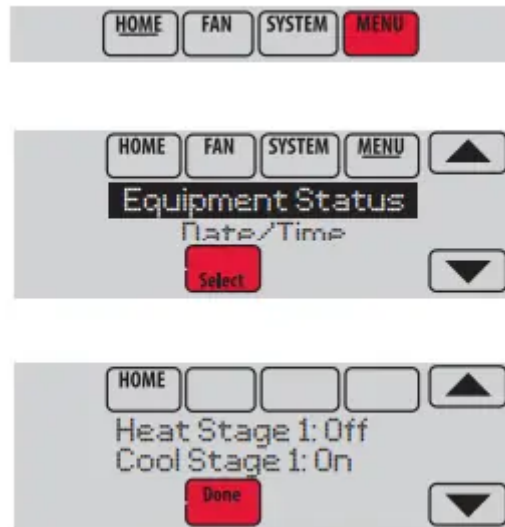


Menu Options

Viewing equipment status

1. Touch MENU.
2. Select Equipment Status.
3. Touch s or t to view the status of all the equipment your thermostat is controlling. Depending on how your thermostat was installed, the Equipment Status screen can report data about the following systems:
 - Heating and cooling
 - Fan
 - Humidification
 - Dehumidification
 - Ventilation
 - Maintenance reminders

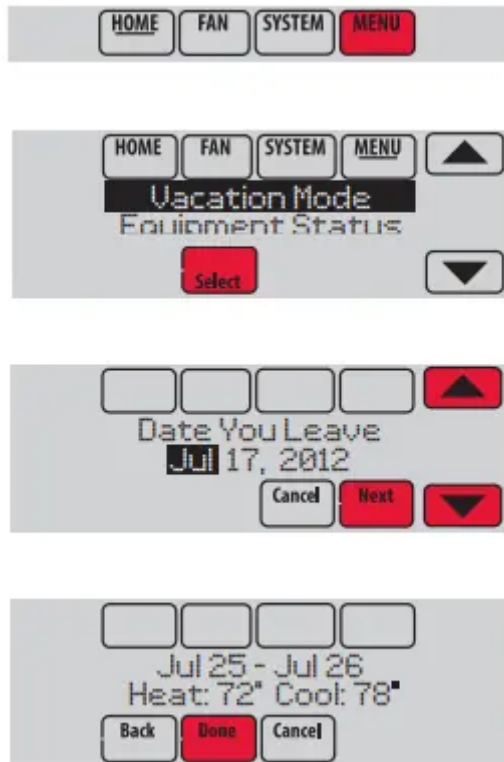
- Thermostat information.



Setting vacation hold: residential use

This feature helps you save energy while you are away, and restores comfortable settings just before you return home.

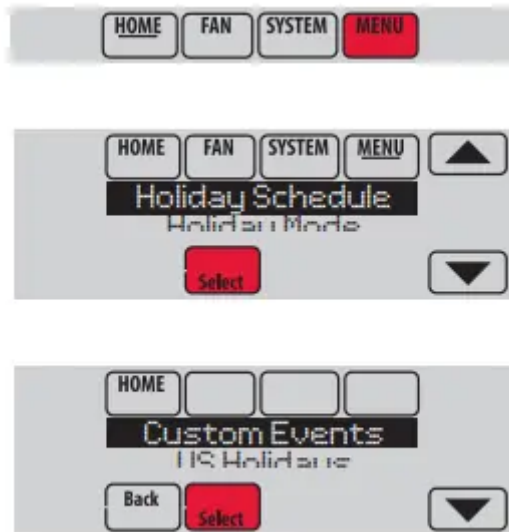
1. Touch MENU.
2. Select Vacation Mode.
3. Touch ▲ or ▼ to select the date you leave, then touch Next for further scheduling details, including times of day, temperature settings, return date, and return settings.
4. Review your selections on the last display, and touch Done to save your settings. Touch Cancel to ignore the changes.



Setting holiday/event schedules: commercial use

This feature helps you conserve energy when the workplace is unoccupied for special events and holidays.

1. Touch MENU.
2. Select Holiday Schedule.
3. Select the item you want to schedule and touch Next for further scheduling details.
 - Custom Events lets you set up other days for special schedules.
 - US and Canadian Holiday options let you select from a list of holidays commonly observed in each country.
4. Make selections as prompted on each screen. For more information, see next two pages.
5. Touch Done to save your settings.



Setting custom events: commercial use

This feature lets you customize temperature settings to be maintained during a specific event. You can set up an event for a specific date or day in a month. The thermostat resumes normal scheduling after the event.

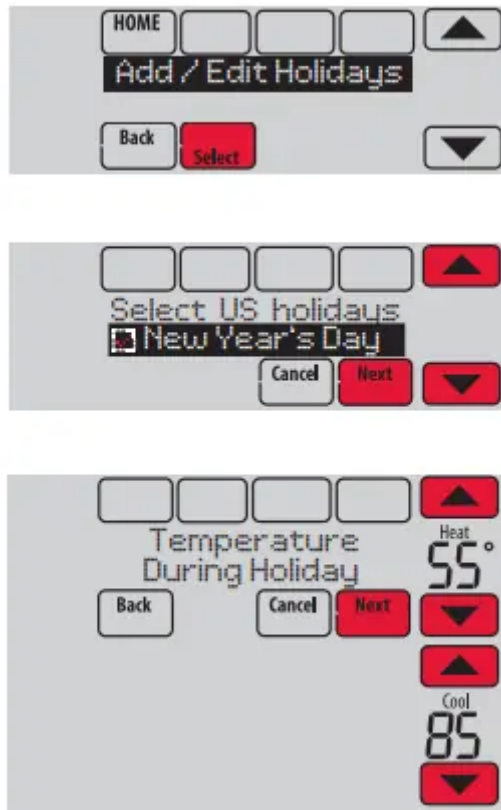
1. Select Custom Events from the Holiday Schedule menu.
2. Select Create New Event.
3. Select Specific Date or Month/Weekday.
 - For Specific Date, you are prompted to select the event's start date, settings, end date, and frequency.
 - For Month/Weekday, you are prompted to select the month, day of the week, week of the month, settings, length of event, and frequency for the event.
4. Review the settings and touch Done to save them. Touch Cancel to ignore the changes.



Setting holiday schedule: commercial use

This feature lets you customize temperature settings to be maintained on specified national holidays. The thermostat resumes normal scheduling between selected holidays.

1. Select US Holidays or Canadian Holidays from the Holiday Schedule menu.
2. Select Add/Edit Holidays. A list of national holidays is displayed.
3. Touch the check box next to each holiday for which you want to maintain specific settings, (Touch ▲ or ▼ to scroll through the holiday list.) then touch Next.
 - Set the holiday schedule for Occupied or Unoccupied temperatures, depending whether the building will be in use.
4. Touch ▲ or ▼ to select the Heat and Cool temperatures.
5. Review the settings and touch Done to save them. Touch Cancel to ignore changes.

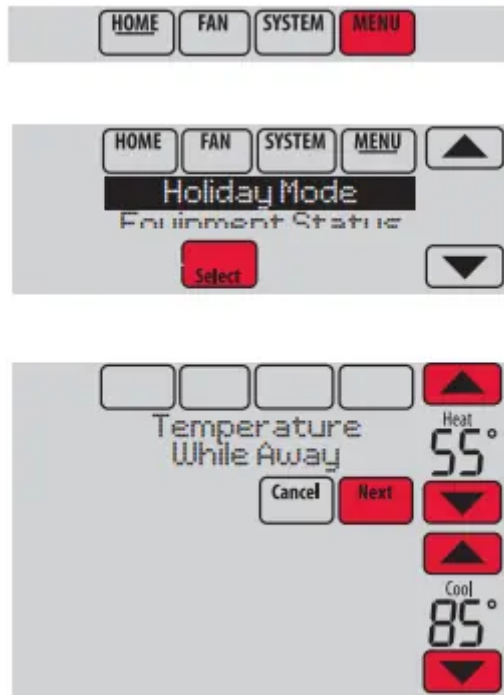


Setting holiday override: commercial use

This feature lets you customize temperature settings to be maintained from now until a specified date. The thermostat resumes normal scheduling on the date you select.

1. Touch MENU.
2. Select Holiday Mode to display Temperature While Away.
3. Touch ▲ or ▼ to select the Heat and Cool temperatures, then touch Next to select return date.
4. Review the settings and touch Done to save them. Touch Cancel to ignore the changes.

NOTE: The cool temperature can only be set higher than the unoccupied program setting and the heat temperature can only be set lower than the unoccupied program setting.



Initiating occupancy mode: commercial use

This feature keeps temperature at an energysaving level until you touch Press **HERE** to Start Occupancy. When you arrive, touch the message to maintain a comfortable temperature while the room is occupied.

Touch the ▲ or ▼ buttons to set the temperature or the Hold Until time. The temperature is maintained until the time you set. Temperature returns to an energy-saving level after the timer expires, or the “Occupied” period ends.

NOTE: This feature is available only when programmed by the installer.



Remote setback (commercial use)

During Occupied program periods, an occupancy sensor directs the thermostat to go to REMOTE SETBACK settings when the room is empty. If someone is in the room, it uses the Occupied

program period settings. The thermostat ignores the occupancy sensor during Unoccupied program periods.

If the thermostat is set up to be non-programmable, the sensor directs the thermostat to go to REMOTE SETBACK settings when the room is empty. If someone is in the room, then it follows the settings set by the user.

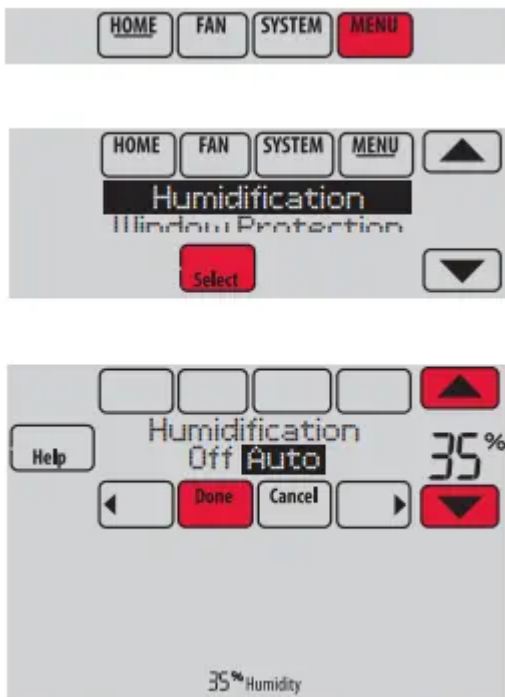
Depending on how your thermostat was installed, it may delay for up to 30 minutes before switching to REMOTE SETBACK settings. This delay allows the room to stay comfortable if the room is unoccupied for only a short time.

Adjusting humidification settings

1. Touch MENU and select Humidification.
2. Select Auto.
3. Touch ▲ or ▼ to select humidity level.
4. Touch Done to save your settings. Touch Cancel to ignore changes.
5. If frost or condensation appears on the windows, touch MENU, then select Window Protection. (Use a lower number to prevent frost or condensation. Use a higher number if indoor air is too dry.)

NOTE: Window Protection is available only if an outdoor air sensor is installed.

NOTE: The thermostat controls humidification and dehumidification as needed to maintain the desired humidity level. Depending on how your thermostat was installed, the thermostat may maintain a 15% separation between humidification and dehumidification settings.

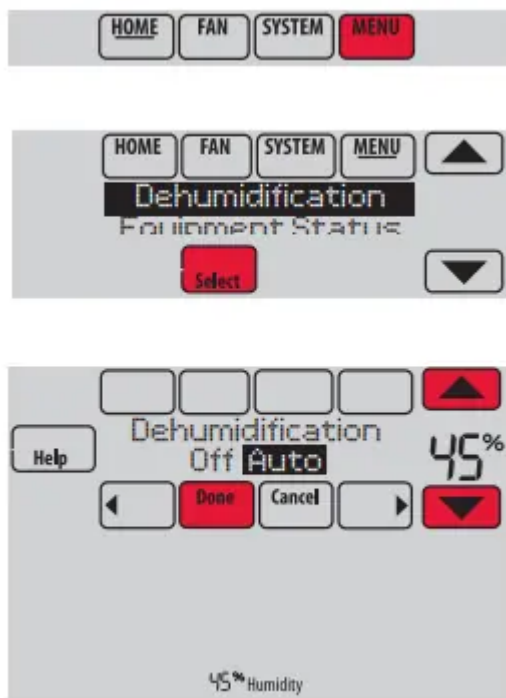


Adjusting dehumidification settings: residential use

This feature can control a dehumidifier or use your air conditioner to reduce humidity.

1. Touch MENU and select Dehumidification.
2. Select Auto.
3. Touch ▲ or ▼ to select humidity level.
4. Touch Done to save your settings. Touch Cancel to ignore changes.

NOTE: If your air conditioner is used to control humidity, the temperature may drop up to 3° F below your temperature setting until humidity reaches the desired level.



Adjusting dehumidification settings: commercial use

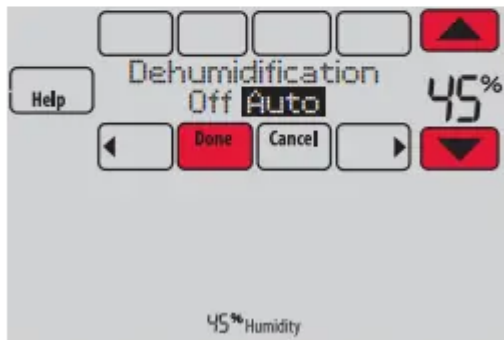
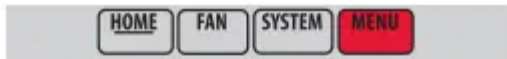
This feature can control a dehumidifier or use your air conditioner to reduce humidity.

1. Touch MENU and select Dehumidification.
2. Select Auto.
3. Touch ▲ or ▼ to select humidity level.
4. Touch Done to save your settings. Touch Cancel to ignore changes.

If your air conditioner is used to control humidity, the thermostat may use the following methods to maintain humidity:

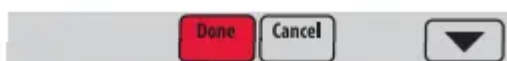
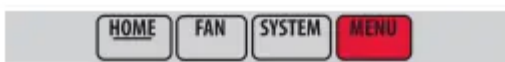
- Cool from 1° to 5° F lower than your temperature setting.
- Run cooling for the minimum “on” time to reduce humidity.

- Run cooling and heating at the same time to reduce humidity without lowering the temperature.



Adjusting ventilation settings

1. Touch MENU, and select Ventilation.
2. Select Mode, Temporary Boost, or Lockout, then select appropriate options. (For options, see next page.)
3. Touch Done to save your settings. Touch Cancel to ignore changes.



Ventilation options

Mode:

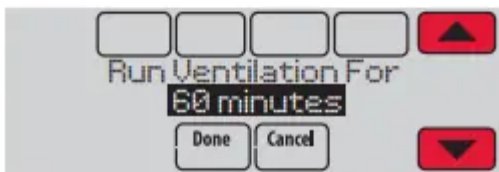
Auto: Ventilation runs as programmed by the installer.

Off: Ventilation remains off unless turned on using the timer.

On: Ventilation is always on.

Temporary Boost: Touch ▲ or ▼ to select how long to run ventilation temporarily. To turn it off, set it to zero.

Lockout: Touch ▲ or ▼ to select Yes or No, then touch Next. Select Yes to prevent ventilation from running during the Sleep or Unoccupied (commercial) program periods or when outdoor conditions exceed values set by the installer.



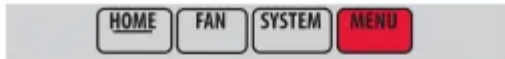
Setting preferences

Preference menu options let you select how the thermostat displays information or responds to certain situations.

1. Touch MENU and select Preferences.
2. Select an option and follow prompts:
 - Reminders to change filters
 - Fahrenheit/Celsius display
 - 12/24-hour clock display
 - Screen backlighting

- Alert light options
- Scheduling options
- Adaptive recovery
- Default schedule
- Daylight saving time

3. Touch Done to save your settings. Touch Cancel to ignore changes.

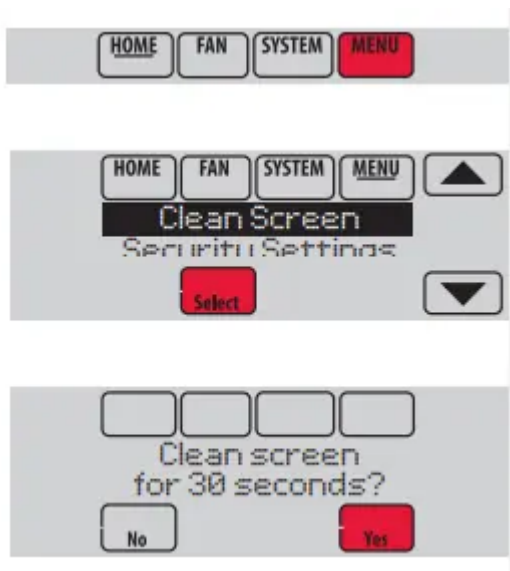


Cleaning the thermostat screen

When you select the Clean Screen option, the screen is locked so you don't accidentally change settings while you clean.

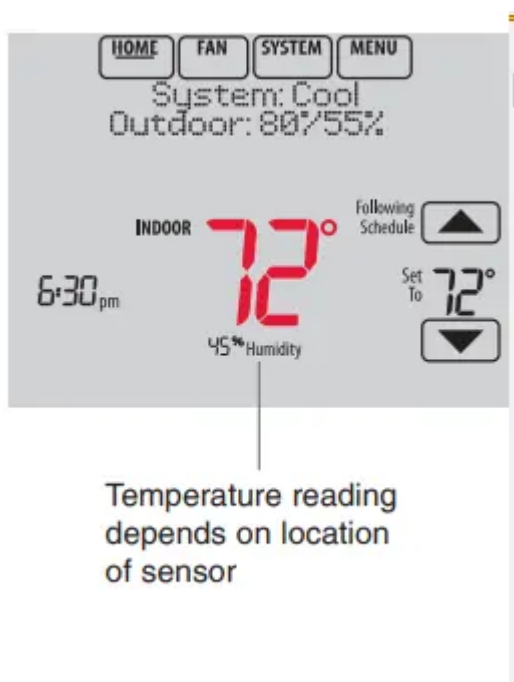
1. Touch MENU.
2. Select Clean Screen. A prompt asks if you want to clean the screen for 30 seconds.
3. Touch Yes. A countdown timer displays elapsed time until the screen is reactivated.

NOTE: Do NOT spray any liquid directly on the thermostat. Spray liquids onto cloth, then use the damp cloth to clean the screen. Use water or household glass cleaner. Avoid abrasive cleansers.



Using the temperature display

In some circumstances, the temperature displayed on the Home screen may not match the temperature near the thermostat. If your system is set up to use remote indoor sensors, it may be reading a sensor in another location.

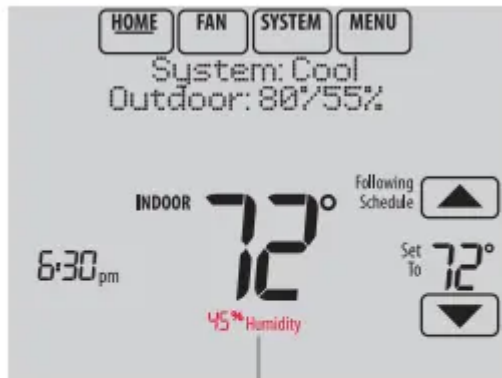


Using the humidity display

In some circumstances, the humidity displayed on the Home screen may not match humidity near the thermostat.

Some systems are set up to use two sensors, one to control humidification, the other for dehumidification. These sensors are often installed in different locations.

Depending on how your thermostat was installed, the thermostat Home screen will display humidity readings from only one sensor.



Humidity reading depends on location of sensor.

Appendices

Troubleshooting

If you have difficulty with your thermostat, try these suggestions. Most problems can be corrected quickly and easily.

Screen is blank

- Check circuit breaker and reset if necessary.
- Make sure power switch at heating and cooling system is on.
- Make sure furnace door is closed securely.
- If thermostat is battery powered, make sure fresh AA alkaline batteries are installed correctly (see page 32).

Screen is difficult to read

- Change screen brightness using Preferences menu (see page 26).

Red light is on

- If thermostat is in Emergency Heat mode, the red light is normal. It shows that the thermostat is in Emergency Heat mode.
- If thermostat is not in Emergency Heat mode, an alert is active. Check message on the thermostat screen.

Heating or cooling system does not respond

- Touch SYSTEM to set system to Heat. Make sure the temperature is set higher than the Inside temperature.
- Touch SYSTEM to set system to Cool. Make sure the temperature is set lower than the Inside temperature.
- Check circuit breaker and reset if necessary.
- Make sure power switch at heating & cooling system is on.
- Make sure furnace door is closed securely.
- If “Wait” is displayed, the compressor protection timer is on. Wait 5 minutes for the system to restart safely, without damaging the compressor.

Warning

This content is compiled from multiple sources and is provided for reference purposes only. It may not be complete or fully applicable to all situations. If you are unable to resolve your issue, please contact the product manufacturer or an authorized service provider for official support.