

T8611G Chronotherm® IV Deluxe Programmable Heat Pump Thermostat

PRODUCT DATA



- Back lighting the large display makes the LCD very easy to read.
- Models available with outdoor temperature sensor capability for homeowner convenience. The sensor is also more accurate than a thermometer.
- Configurable features allows one model to be used to replace many different models (less inventory, no longer need to carry separate models to get these features).
 - °F or °C temperature display;
 - automatic or manual changeover;
 - adjustable heating cycle rate.
- Minimum off time protects the equipment and extends the equipment life.
- Easy installation, setup and system test saves installer time and increases productivity.
- System test simplifies troubleshooting and saves time by overriding the time delays.
- Models available with defrost control for more efficient heat pump operation.
- Adaptive Intelligent Recovery® control brings the room temperature to temperature setpoint at the programmed time, maximizing comfort and energy savings.
- Setpoints are permanently held in memory (no batteries used) and retained during power outages for increased installer and homeowner convenience.
- Universal Versaguard™ Thermostat guards available for added security.

APPLICATION

The T8611G Chronotherm® IV Deluxe Programmable Heat Pump Thermostat provides electronic control of 24 Vac single-zone heat pump systems.

FEATURES

- Full seven-day program capability; different schedules and temperature setpoints may be selected for everyday to match the homeowner's flexible schedule.
- Copy key makes programming easier and faster for the installer and homeowner.
- Daylight Savings Time (DST) key for quick change in and out of Daylight Savings Time.
- Models available with programmable fan operation for added homeowner comfort.
- Easy temporary temperature setpoint changes for current period, vacation hold (1 to 255 days) or indefinite hold adds to the homeowner comfort and energy savings.
- Frequently used keys are located by the Liquid Crystal Display (LCD) for quick and easy access to information.
- Attractive styling complements any decor to the homeowner's delight.

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SPECIFICATIONS

IMPORTANT

The specifications given in this publication do not include normal manufacturing tolerances. Therefore, this unit might not exactly match the listed specifications. This product is tested and calibrated under closely controlled conditions, and some minor differences in performance can be expected if those conditions are changed.

Thermostat Model

T8611G Thermostats provide features listed in Table 1.

Table 1. Thermostat Features.

Changeover	System Selection	Fan Selection	Comments
Automatic	Em Heat-Heat-Off-Cool-Auto	On-Auto	System and fan selections are done by keyboard.

Electrical Rating (Nominal Range):

24 Vac, 50/60 Hz.
20 to 30 Vac, 50/60 Hz.

Batteries:

No batteries required.

Auxiliary Heat and Emergency Heat Indication:

Thermostat display indicates when Auxiliary Heat or Emergency Heat are activated.

Loss of Power:

The thermostat will maintain programmed times and temperatures for the life of the product. The clock and day information is retained for a minimum of 30 minutes.

Light Emitting Diodes (LEDs):

Two user-defined LEDs (select models).
Two additional LEDs available on some models.

System Current Draw:

6 VA maximum at 30 Vac, 50/60 Hz.

Output Relay Load Ratings:

See Table 2.

Table 2. Maximum Amps at 30 Vac.

Relay	Running (A)	Inrush (A)
Fan	0.5	2.5
Heat (all stages)	1.5	3.5
Cool (all stages)	1.5	7.5

Temperature:

Ratings:

Operating Ambient: 40°F to 110°F (4°C to 43°C).
Shipping: -30°F to +150°F (-34°C to +65°C).

Display Accuracy:

±1°F (±0.5°C).

Setpoint:

Range: 45°F to 95°F (7°C to 35°C).

Differential: 3°F (1.5°C).

Default Settings: see Table 3.

Table 3. Default Setpoints.

Period	Time	Heat Setpoint	Cool Setpoint	Fan Setting
Wake	6:00 AM	70°F (21°C)	78°F (25.5°C)	Auto
Leave	8:00 AM	62°F (16.5°C)	85°F (29.5°C)	Auto
Return	6:00 PM	70°F (21°C)	78°F (25.5°C)	Auto
Sleep	10:00 PM	62°F (16.5°C)	82°F (28°C)	Auto

Minimum Stage Operation Time:

Minimum On (Heat and Cool) (select models): factory setting 2 minutes; option 0 minutes.

Minimum Off (Cool and Heat Pump): factory setting 5 minutes; option 0 minutes.

Humidity Ratings:

5% to 90% RH, noncondensing.

Clock Accuracy:

±1 minute per month.

Finish:

Taupe or Premier White® color.

ORDERING INFORMATION

When purchasing replacement and modernization products from your TRADELINE® wholesaler or distributor, refer to the TRADELINE® Catalog or price sheets for complete ordering number.

If you have additional questions, need further information, or would like to comment on our products or services, please write or phone:

1. Your local Home and Building Control Sales Office (check white pages of your phone directory).
2. Home and Building Control Customer Relations
Honeywell, 1885 Douglas Drive North
Minneapolis, Minnesota 55422-4386

In Canada—Honeywell Limited/Honeywell Limitée, 35 Dynamic Drive, Scarborough, Ontario M1V 4Z9.

International Sales and Service Offices in all principal cities of the world. Manufacturing in Australia, Canada, Finland, France, Germany, Japan, Mexico, Netherlands, Spain, Taiwan, United Kingdom, U.S.A.

Dimensions:

See Fig. 1.

Mounting Means:

The thermostat mounts on a wallplate. The wallplate mounts horizontally on a wall or outlet box with two no. 6 x 32 screws (included).

Accessories:

C7089B Outdoor Temperature Sensors (69-1020).
 Universal Versaguard™ Thermostat guards.



RECYCLING NOTICE

If this control is replacing a control that contains mercury in a sealed tube, do not place your old control in the trash.

Contact your local waste management authority for instructions regarding recycling and the proper disposal of the old thermostat.

INSTALLATION

When Installing this Product...

1. Read these instructions carefully. Failure to follow the instructions can damage the product or cause a hazardous condition.
2. Check the ratings given in the instructions and on the product to make sure the product is suitable for your application.
3. Installer must be a trained, experienced service technician.
4. After completing installation, use these instructions to check out the product operation.

Location

Install the thermostat about 5 ft (1.5m) above the floor in an area with good air circulation at average temperature. See Fig. 2.

Do not install the thermostat where it can be affected by:

- drafts, or dead spots behind doors and in corners.
- hot or cold air from ducts.
- radiant heat from sun or appliances.
- concealed pipes and chimneys.
- unheated (uncooled) areas such as an outside wall behind the thermostat.

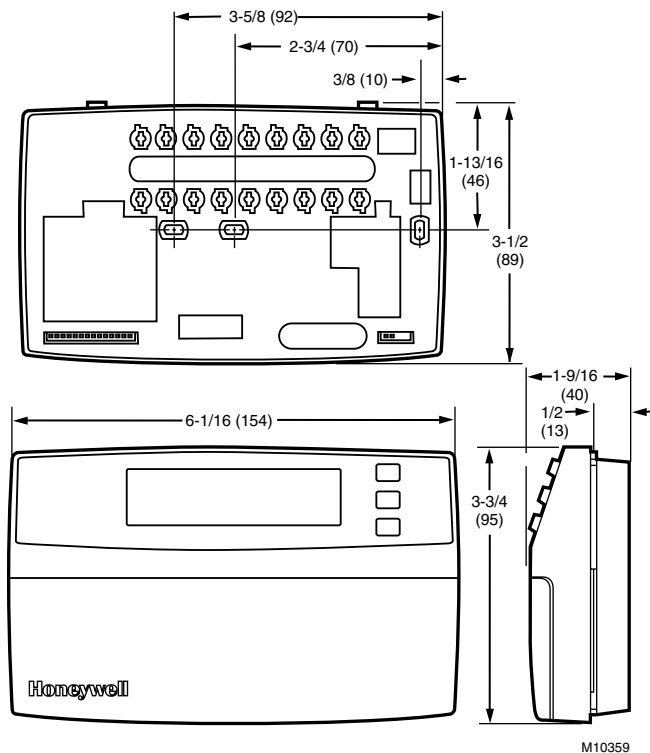


Fig. 1. Dimensions of thermostat in in. (mm).

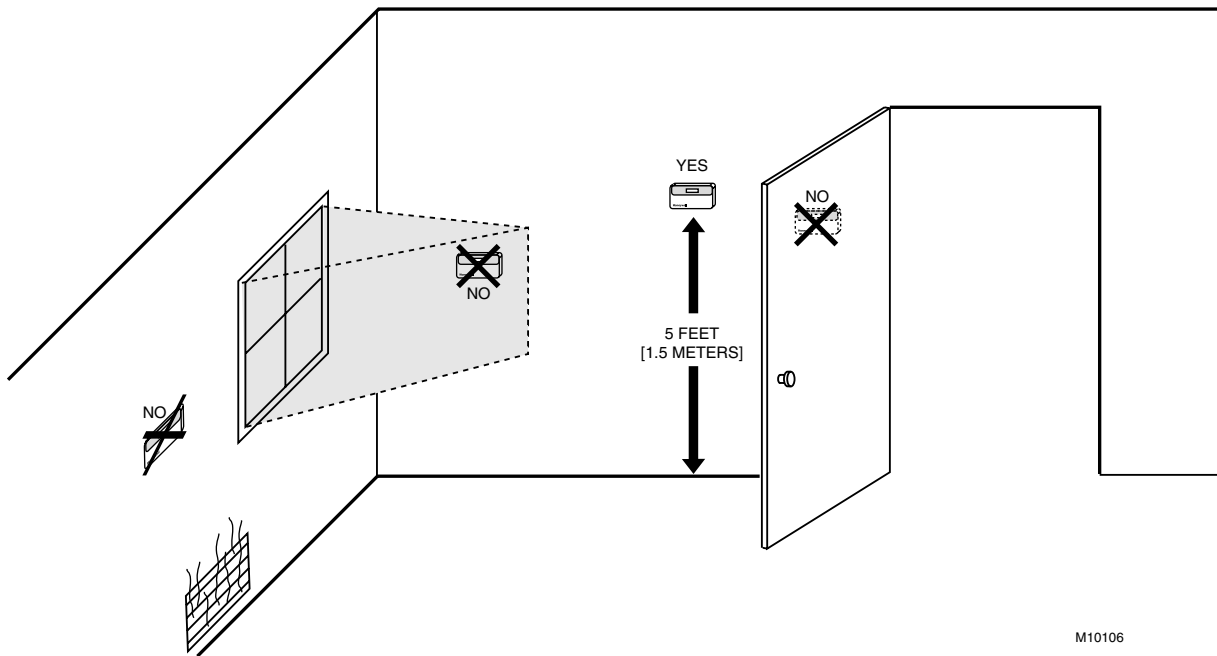


Fig. 2. Typical location of thermostat.

Wallplate Installation

The thermostat can be mounted horizontally on the wall or on a 2 in. x 4 in. wiring box. Position wallplate horizontally on the wall or on a 2 in. x 4 in. wiring box.

1. Position and level the wallplate (for appearance only). The thermostat will function properly even when not level.
2. Use a pencil to mark the mounting holes. See Fig. 3.

3. Remove the wallplate from the wall and drill two 3/16 inch holes in the wall (if drywall) as marked. For firmer material such as plaster, drill two 7/32 inch holes. Gently tap anchors (provided) into the drilled holes until flush with the wall.
4. Position the wallplate over the holes, pulling wires through the wiring opening.
5. Loosely insert the mounting screws into the holes.
6. Tighten mounting screws.

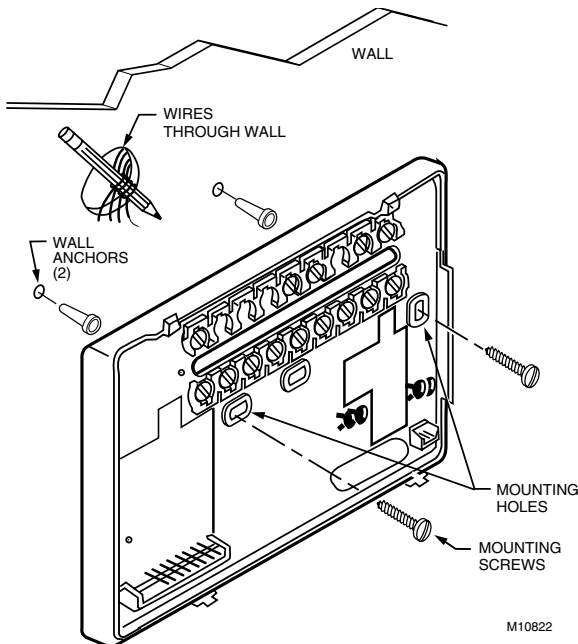


Fig. 3. Mounting the wallplate.

WIRING

All wiring must comply with local electrical codes and ordinances. Follow equipment manufacturer wiring instructions when available. Refer to Fig. 15 and 16 for typical hookups. A letter code is located near each terminal for identification. Refer to Table 4 for terminal designations.

Table 4. Terminal Designations and Descriptions.

Standard Terminal Designations	Alternate Terminal Designations	Typical Connection	Function	Terminal Type
B	—	Heating changeover valve	Output	24V powered contact
C	B ^a , C, X1, X2	Common	Input	
E	K	Emergency heat relay	Output	24V powered contact
G	F	Fan relay	Output	24V powered contact
L	A, A1, C, L, X, Z	User defined Light Emitting Diodes (LEDs)	Annunciation	—
O	R	Cooling changeover valve	Output	24V powered contact
O/B	—	Cooling or heating changeover valve (configure in Installer Setup 29)	Output	24V powered contact
OT, OT	—	Outdoor temperature sensor (C7089B)	Input	—
P	—	Defrost	Output	24V powered contact
R	V	24V system or heating transformer	Input	—
RC	—	24V cooling transformer	Input	—
W1	H1, R3	Stage 1 heating relay	Output	24V powered contact
W2	H2, R4, W3, Y	Stage 2 heating relay or auxiliary heat relay	Output	24V powered contact
X1, X2, X3, X4	A, A1, A2, C, L, X, Z	User defined Light Emitting Diodes (LEDs)	Annunciation	—
Y, Y1	C1, M, Y	Stage 1 compressor contactor	Output	24V powered contact

^a Some OEM models label the terminal for transformer common B.

CAUTION

Disconnect power before wiring to prevent electrical shock or equipment damage.

1. Loosen the terminal screws on the wallplate and connect the system wires. See Fig. 4

IMPORTANT

Use 18 gauge, color-coded thermostat cable for proper wiring.

2. Securely tighten each terminal screw.
3. Push excess wire back into the hole.
4. Plug the hole with nonflammable insulation to prevent drafts from affecting the thermostat.

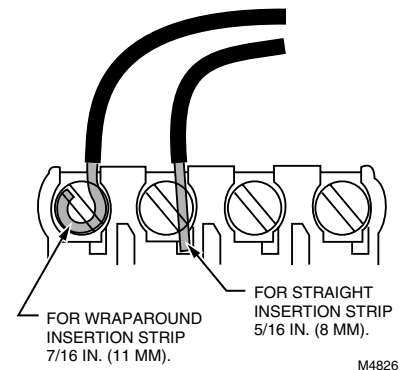


Fig. 4. Proper wiring technique.

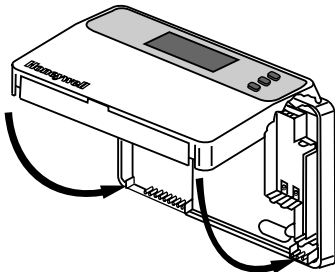
Mounting Thermostat Wallplate

The thermostat mounts on the wallplate after they are installed.

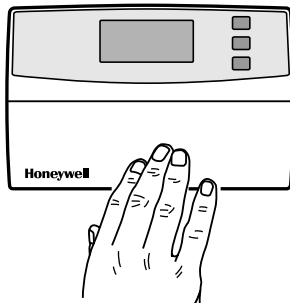
1. Engage tabs at the top of thermostat and wallplate. See Fig. 5.
2. Press lower edge of case to latch.

NOTE: To remove the thermostat from the wall, first pull out at the bottom of the thermostat; then remove the top.

A. ENGAGE TABS AT TOP OF THERMOSTAT AND WALLPLATE.



B. PRESS LOWER EDGE OF CASE TO LATCH.



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Fig. 5. Mounting thermostat on wallplate.

SETTINGS

Using Thermostat Keys

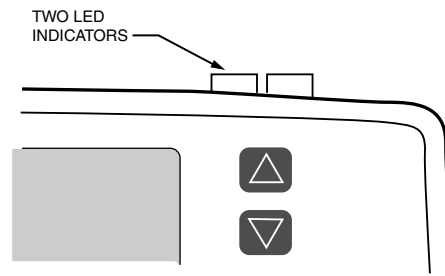
The thermostat keys are used to:

- set current day and time,
- program times and setpoints for heating and cooling,
- temporarily override program temperatures,
- display present setting,
- configure Installer Setup,
- check System Test,
- display outdoor temperature (select models),
- set the system operation,
- set the fan operation.

See Fig. 6 for the location of the keys.

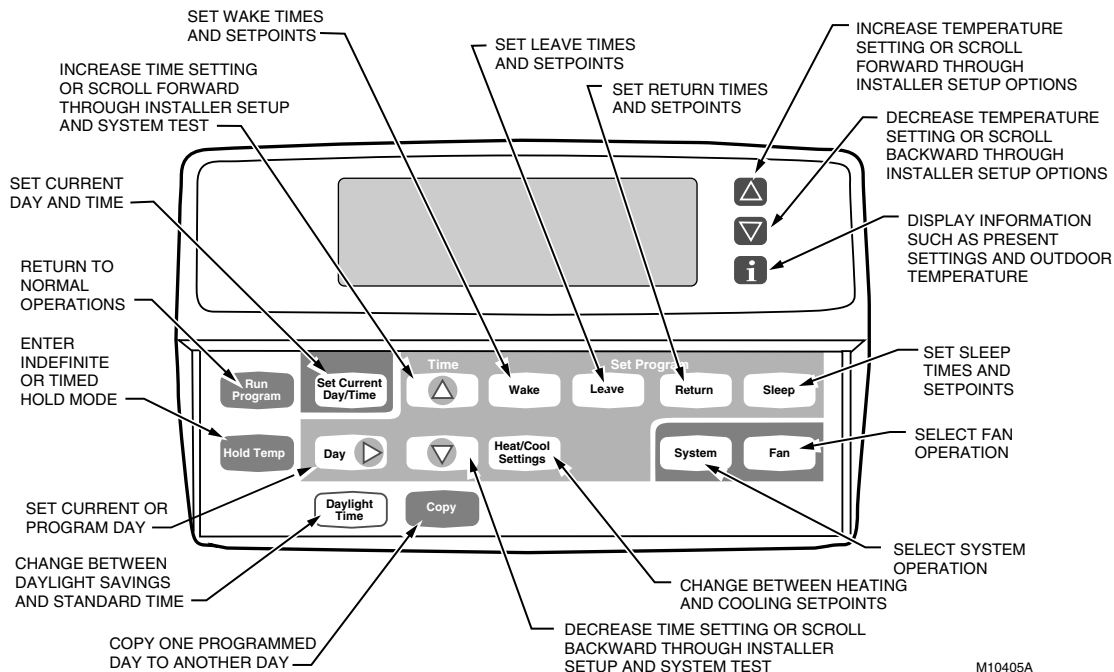
LED Indication

Two LED indicators are located in the upper right of the thermostat. They indicate when a CHECK or FAIL signal is sent to the thermostat from the system. See Fig. 7.



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Fig 7. LEDs location



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Fig. 6. T8611G key locations and descriptions.

System and Fan Settings

The system default setting is Heat and the fan default setting is Auto. Use the System and Fan keys or switches to change the settings. See Fig. 8. The fan settings can be set for each program period individually. The system selection is for all the program periods.

System settings control the thermostat operation as follows:

Em Heat: Emergency heat output is controlled as Stage 1 heat. Cooling system is off. Compressor is de-energized.

Heat: The thermostat controls the heating.

Off: Both the heating and cooling are off.

Cool: The thermostat controls the cooling.

Auto: The thermostat automatically changes between heating and cooling operation, depending on the indoor temperature.

Fan settings control the system fan as follows:

On: Fan operates continuously.

Auto: Fan operates with equipment.

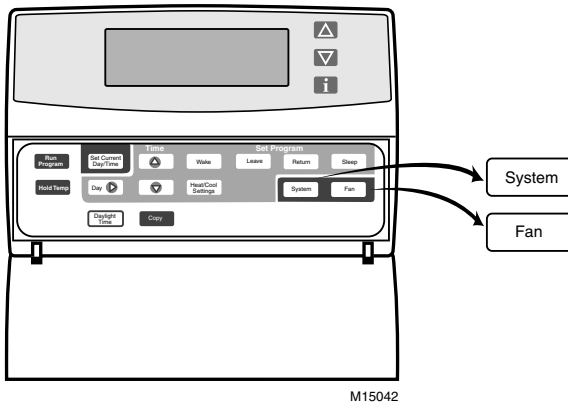


Fig. 8. T8611G System and Fan key locations.

NOTE: Always press the keys with your fingertip or similar blunt tool. Sharp instruments like a pen or pencil point can damage the keyboard.

Temperature Settings

Refer to Table 5 for the default program. If the daytime energy savings period is not used, press the period key (Leave or Return) until the time is blank. The fan setting feature is available on select thermostat models. See Programming Section for complete instructions on changing the program.

Table 5. Default Program Settings.

Period	Time	Heat Setpoint	Cool Setpoint	Fan Setting
Wake	6:00 AM	70°F (21°C)	78°F (25.5°C)	Auto
Leave	8:00 AM	62°F (16.5°C)	85°F (29.5°C)	Auto
Return	6:00 PM	70°F (21°C)	78°F (25.5°C)	Auto
Sleep	10:00 PM	62°F (16.5°C)	82°F (28°C)	Auto

INSTALLER SETUP

NOTE: For most applications, the thermostat factory settings will not need to be changed. Review the factory settings in Table 6 and if no changes are necessary, go to the Installer System Test section.

The Installer Setup is used to customize the thermostat to specific systems. Some of the options include temperature display, changeover and outdoor temperature display. Installer Setup numbers are listed in Table 6. The table includes all the configuration options and the factory settings for the thermostat.

A combination of key presses are required to use the Installer Setup feature.

- To enter the Installer Setup, press and hold the Information **i** key with the increase **▲** and decrease **▼** keys until the first number is displayed. All display segments appear for approximately three seconds before the number is displayed. See Fig. 9 and 10.
- To advance to the next Installer Setup, press the Time **△** key.
- To change a setting, use the increase **▲** or decrease **▼** key.
- To scroll the Installer Setup numbers backwards, press the Time **▽** key.
- To exit the Installer Setup, press Run Program.

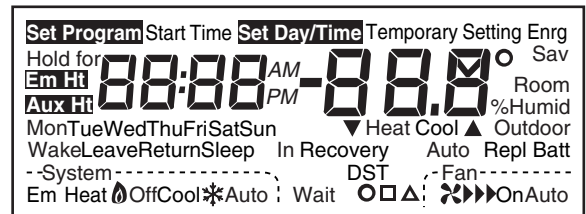


Fig. 9. Display of all the segments of the LCD.

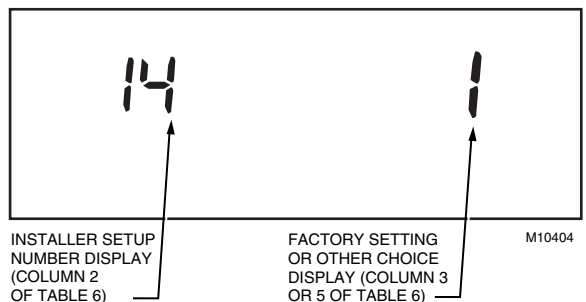


Fig. 10. Display of Installer Setup number and setting.

IMPORTANT

Only configurable numbers are shown on the device. Example: If thermostat does not have a system key, Installer Setup Number 12 will not be displayed. Review Table 6 factory settings and mark any desired changes in the Actual Settings column. When Installer Setup is complete, review the settings to confirm that they match the system.

Table 6. Thermostat Installer Setup Options.

Select	Installer Setup Number (Press Time Δ key to change)	Factory-Setting		Other Choices (Press \blacktriangle or \blacktriangledown key to change)		Actual Setting
		Display	Description	Display	Description	
Not used	1 thru 4	—	—	—	—	—
Heating cycle	5	6	Stage 2	3, 6 or 9	3—3 cph	—
	6 (Not used)	—	—	—	6—6 cph used for last stage of heat pump systems	
	7	9	Emergency heat	3, 6 or 9	9—9 cph used for electric heat	
Not used	8 thru 11	—	—	—	—	—
System setting adjustment	12	1	Manual changeover	0 or 2	0—Auto changeover 2—Fixed auto changeover	—
Adaptive Intelligent Recovery™ control	13	0	Adaptive Intelligent Recovery™ control is activated (system starts early so setpoint is reached by start of program period)	1	Conventional recovery (system starts recovery at programmed time)	—
Degree temperature display	14	0	Temperature is displayed in °F	1	Temperature is displayed in °C	—
Not used	15	—	—	—	—	—
Clock format	16	0	12-hour clock format	1	24-hour clock format	—
Not used	17 and 18	—	—	—	—	—
Extended fan operation in heating	19	0	No extended fan operation after the call for heat ends	1	Fan operation is extended 90 seconds after the call for heat ends.	—
Extended fan operation in cooling	20	0	No extended fan operation after the call for cool ends	1	Fan operation is extended 90 seconds after the call for cool ends.	—
Not used	21 thru 23	—	—	—	—	—
Outdoor temperature display (models with OT terminals)	24	0	No outdoor temperature is displayed	1	Outdoor temperature is displayed. Needs a C7089B1000 Outdoor Sensor to operate.	—
Not used	25 thru 28	—	—	—	—	—
O/B terminal energized in heating or cooling	29	0	O/B terminal is energized for reversing valve in cooling	1	O/B terminal is energized for reversing valve in heating	—

(continued)

Table 6. Thermostat Installer Setup Options (continued).

Select	Installer Setup Number (Press Time Δ key to change)	Factory-Setting		Other Choices (Press \blacktriangle or \blacktriangledown key to change)		Actual Setting
		Display	Description	Display	Description	
Deadband	30	3	Heating and cooling setpoints can be set no closer than 3°F (1.5°C)	4 thru 10	Heating and cooling setpoints can be set no closer than the chosen value: 4—4°F (2°C) 5—5°F (2.5°C) 6—6°F (3°C) 7—7°F (3.5°C) 8—8°F (4°C) 9—9°F (4.5°C) 10—10°F (5°C)	
Not used	31 and 32	—	—	—	—	—
Minimum off time for the compressor	33	5	5 minute minimum off time for the compressor	0 thru 4	Minimum number of minutes (0 thru 5) the compressor will be off between calls for the compressor	
Temperature range stops in heating	34	90	Highest setpoint heating can be set to	40 to 89	Temperature range (1°F increments) heating setpoint can be set to	
Temperature range stops in cooling	35	45	Lowest setpoint cooling can be set to	46 to 99	Temperature range (1°F increments) cooling setpoint can be set to	
Not used	36	—	—	—	—	—
Temperature display adjustment	37	0	No difference in displayed temperature and actual room temperature	-3 thru 3	1—Display adjusts to 1°F higher than actual room temperature 2—Display adjusts to 2°F higher than actual room temperature 3—Display adjusts to 3°F higher than actual room temperature -1—Display adjusts to 1°F lower than actual room temperature -2—Display adjusts to 2°F lower than actual room temperature -3—Display adjusts to 3°F lower than actual room temperature	

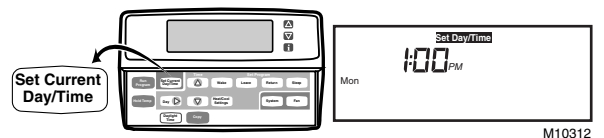
IMPORTANT

Review the settings to confirm that they match the system. Press Run Program to exit the Installer Setup. The thermostat has saved the Installer Setup changes and initiated a reset in order to operate with these new settings. Be sure to set the current day and time immediately.

Setting Current Day and Time

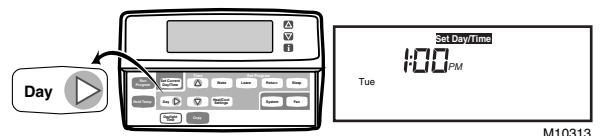
1. Press Set Current Day/Time.

NOTE: On initial power up or after an extended power loss, 1:00 pm flashes on the display until a key is pressed.



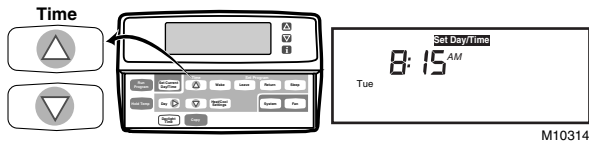
2. Press Day until the current day is displayed.

NOTE: Sun=Sunday, Mon=Monday, Tue=Tuesday, Wed=Wednesday, Thu=Thursday, Fri=Friday, Sat=Saturday.

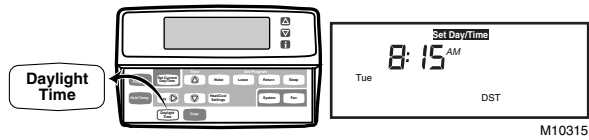


- Press Time Δ or Time ∇ until the current time is displayed.

NOTE: Tapping the Set Current Day/Time will change the time in one hour increments.



NOTE: If the current time is Daylight Savings Time, press Daylight Time until DST is displayed.



- Press Run Program.

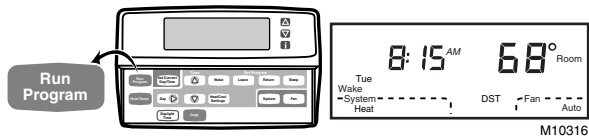


Fig. 11. Display of all the segments of the LCD.

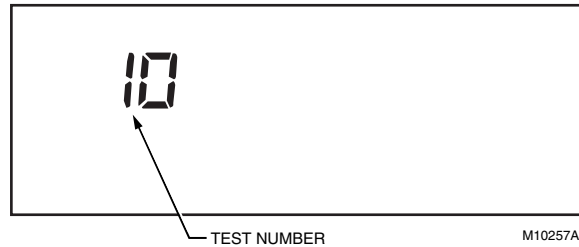


Fig. 12. Display of test number.

Table 7. Tests Available in Installer System Test.

Test Number	System Test Description
10-19	Heating equipment can be turned on and off
20-29	Emergency heat equipment can be turned on and off
30-39	Cooling equipment can be turned on and off
40-49	Fan equipment can be turned on and off
60 0 to 60 19	Keyboard keys test
70-79	Thermostat information including date code and software versions are displayed

Refer to Table 8 for the directions and results of the specific tests.

NOTE: Press Time Δ to advance to the next test and Time ∇ to go to the previous test. Press Run Program to exit the system test.

INSTALLER SYSTEM TEST

Use the Installer System Test to check the thermostat operation. Refer to Table 7 for a list of the available system tests.

To start the system test:

CAUTION

The minimum off time for compressors is bypassed during the Installer System Test. Equipment damage can occur if the compressor is cycled too quickly.

Press and hold the increase \blacktriangle and \blacktriangledown decrease keys, at the same time, until 10 appears. All segments of the display are displayed for three seconds before 10 appears. See Fig. 11 and 12.

Table 8. Installer System Test Options.

Key to Press	Test Number	Description
Heating Equipment System Test		
Time Δ	10	Enter heating equipment System Test.
\blacktriangle	11	Stage-one heat comes on. The system fan is also energized.
\blacktriangle	12	Stage-two heat comes on. Stage-one heat and system fan remain on.
\blacktriangledown	11	Stage-two heat turns off.
\blacktriangledown	10	Stage-one heat and system fan turn off.
Emergency Heating Equipment System Test		
Time Δ	20	Change from heating to emergency heating equipment System Test.
\blacktriangle	21	Emergency heat comes on.
\blacktriangledown	20	Emergency heat turns off.
Cooling Equipment System Test		
Time Δ	30	Change from heating or emergency heating to cooling equipment System Test.
\blacktriangle	31	Cool and system fan come on.
\blacktriangledown	30	Cool and system fan turn off.
Fan Equipment System Test		
Time Δ	40	Change from cooling to fan equipment System Test.
\blacktriangle	41	Fan comes on.
\blacktriangledown	40	Fan turns off.
Key Operation System Test		
Time Δ	60 2	Change from fan to key operation System Test.

NOTE: Press any key and the numbers will change on the display. Press Time \blacktriangledown to go to the previous test and Time Δ to go to the next test. The Run Program Key will not exit from this test. To exit, go to a different test and press Run Program.

THERMOSTAT INFORMATION

1. Press the Time Δ Key to access the thermostat information.



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2. Press the increase \blacktriangle key to display the production date code. The first two large digits are the month and the third digit is the last digit of the year (Example: 027= February 1997).



M10351

3. Press the increase \blacktriangle key again to display the software identification code. (Example: 02 = software ID code 2)



M4932A

- Press the increase ▲ key again to display the software revision number (Example: 001=Revision number 1).



M10229

- Press the increase ▲ key again to display the EEPROM identification code. (Example: 314 = EEPROM ID 314)



M4933A

- Press the Run Program key to exit the system test. The system test times out after four minutes without any key presses.

PROGRAMMING

The keyboard is located behind the thermostat cover with three frequently used keys by the display. The thermostat display shows day, time, program period, temperature, system and fan operation selection.

The thermostat can be set for four times and up to eight temperatures for each day of the week (28 independent time and 56 temperature settings). The ▲ and ▼ keys provide quick temporary temperature changes to increase comfort. The Hold Temp key provides energy efficient operation for extended periods of time.

Before starting the programming procedure, use Table 9 to organize the program schedule. The factory preprogrammed time, temperature and fan settings are shown in brackets. If a daytime energy savings period is not used, press the period key (Leave or Return) until the time is blank. The fan setting feature is available on select thermostat models.

Table 9. Default Time, Setpoints and Fan Settings.

Period	Start Time	Heat Setpoint	Cool Setpoint	Fan Setting
Monday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]
Tuesday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]
Wednesday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]
Thursday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]

(continued)

Table 9. Default Time, Setpoints and Fan Settings (continued).

Period	Start Time	Heat Setpoint	Cool Setpoint	Fan Setting
Friday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]
Saturday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]
Sunday				
Wake	[6:00 AM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Leave	[8:00 AM]	[62°F (16.5°C)]	[85°F (29.5°C)]	[Auto]
Return	[6:00 PM]	[70°F (21°C)]	[78°F (25.5°C)]	[Auto]
Sleep	[10:00 PM]	[62°F (16.5°C)]	[82°F (28°C)]	[Auto]

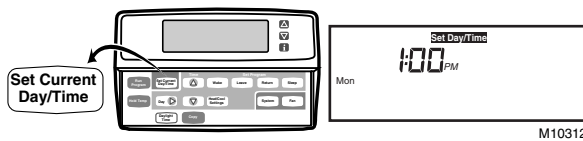
Setting the Current Day and Time

IMPORTANT

Always press the keys with your fingertip or similar blunt tool. Sharp instruments like pens and pencil points can damage the keyboard.

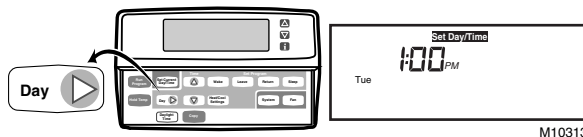
1. Press Set Current Day/Time.

NOTE: On initial power up or after an extended power loss, 1:00 pm flashes on the display until a key is pressed.



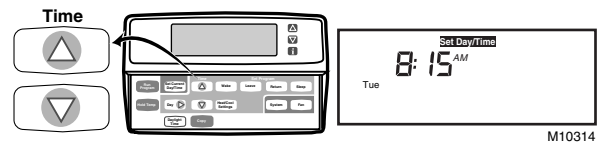
2. Press Day until the current day is displayed.

NOTE: Sun=Sunday, Mon=Monday, Tue=Tuesday, Wed=Wednesday, Thu=Thursday, Fri=Friday, Sat=Saturday.

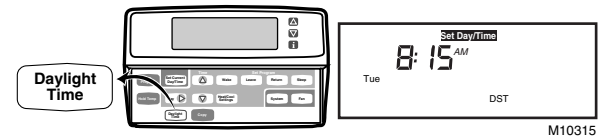


3. Press Time Δ or Time ∇ until the current time is displayed.

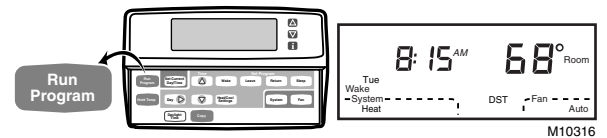
NOTE: Tapping the Set Current Day/Time will change the time in one hour increments.



NOTE: If the current time is Daylight Savings Time, press Daylight Time until DST is displayed.



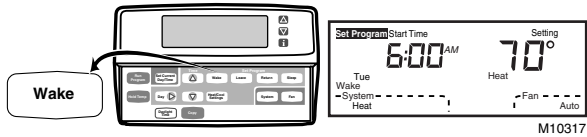
4. Press Run Program.



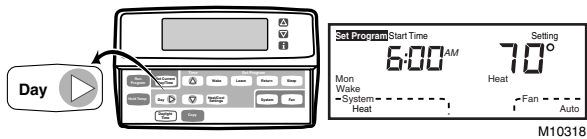
Programming the First Day

Start by programming the Wake time and temperature (and fan operation on select models) for any one day:

1. Press Wake.

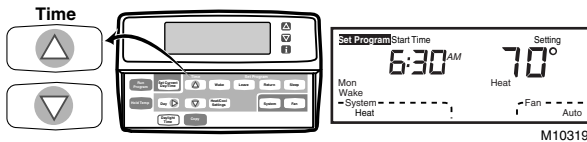


2. Press Day until the desired day is displayed.



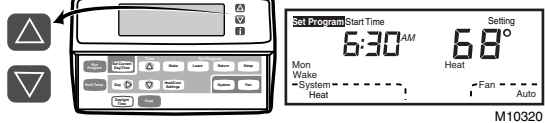
3. Press Time Δ or Time ∇ until the desired Wake time is displayed.

NOTE: The program times are in fifteen minute intervals. (Example: 8:00, 8:15, 8:30).



4. Press increase \blacktriangle or decrease \blacktriangledown key until the desired Wake temperature is displayed.

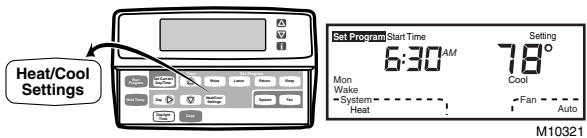
NOTE: The setpoint temperature range is 40 to 90°F (7 to 31°C) for heating and 45 to 99°F (9 to 37°C) for cooling.



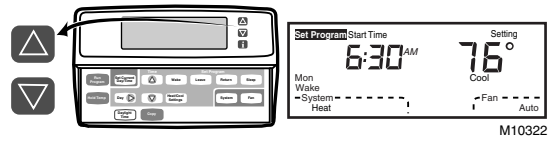
NOTE: Press Fan to modify fan operation. Auto means the fan will run only when the heating or cooling equipment is operating. On means the fan will run continuously for the entire period.

5. Press Heat/Cool Settings to switch to other system temperature setpoint.

NOTE: The program times are the same for both heating and cooling.



6. Press increase \blacktriangle or decrease \blacktriangledown key until the desired temperature setpoint is displayed.

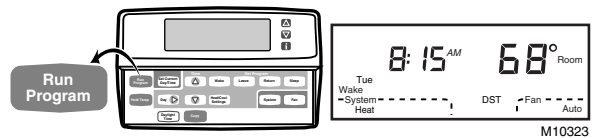


7. Press Leave, Return or Sleep and repeat steps 3, 4, 5 and 6 for programming the rest of the day. The first day is now programmed.

IMPORTANT

Repeat steps 1 through 7 for each day of the week that has a different program than the first day. Refer to Copying a Day section to copy any program day to another.

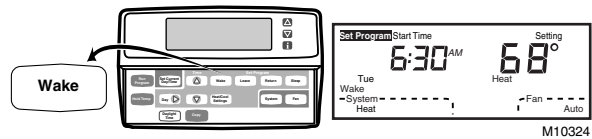
8. Press Run Program when all days are programmed.



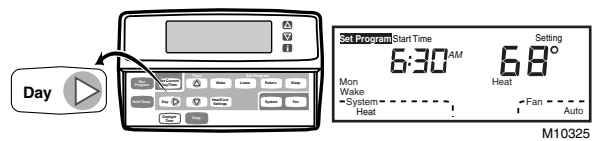
Copying a Day

NOTE: The thermostat must be in the program mode to use the copy feature. Go to step 2. if the thermostat is already in the program mode.

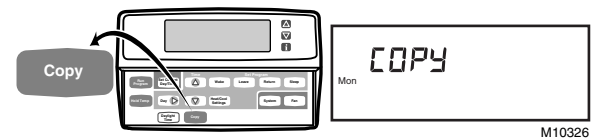
1. Press Wake.



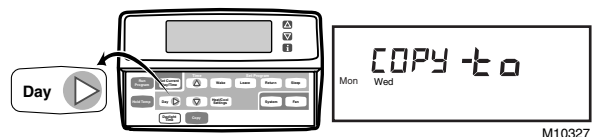
2. Press Day to select the day to be copied if different from the day displayed.



3. Press Copy.

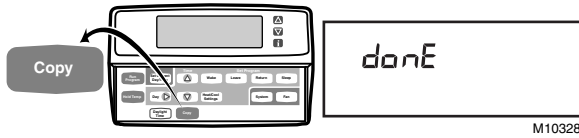


4. Press Day until the day to be copied to is displayed.



5. Press Copy.

NOTE: done will be displayed for two seconds and then the normal program display will be shown.

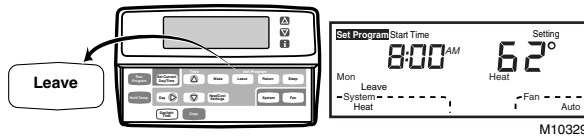


6. Repeat steps 2 through 5 for all the days desired.
7. Press Run Program.

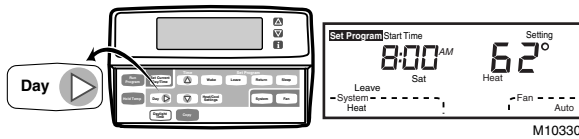
Clearing Program Period

NOTE: The thermostat must be in the program mode to use the clear feature. Go to step 2 if the thermostat is already in the program mode.

1. Press Wake, Leave, Return or Sleep.

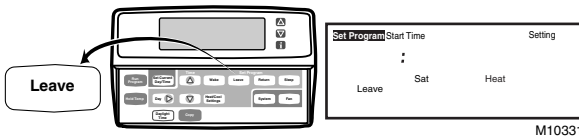


2. Press Day until the desired day is displayed.



3. Press Leave, Return or Sleep until the start time and temperature setting are cleared (approximately 3 seconds).

NOTE: Wake cannot be cleared.



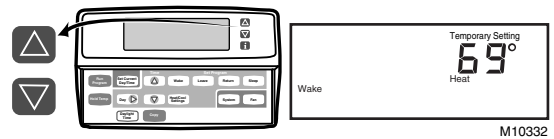
4. Repeat steps 2 and 3 for all the periods to be cleared.
5. Press Run Program.

Setting Temporary Temperatures

Changing Temperature Setting Until the Next Program Period

Press increase ▲ or decrease ▼ key until the desired temperature setpoint is displayed.

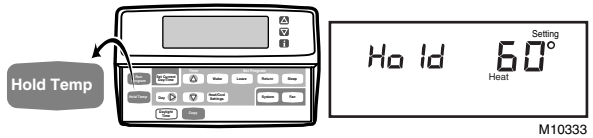
NOTE: If ▼ or ▲ appear under the temperature display, it means that both the heating and cooling setpoints are being adjusted. Tapping the key will change both the heat and cool setpoints by one degree. Press **i** after the desired setpoint is reached to check the setpoints.



NOTE: The temporary temperature setting is displayed for approximately 3 seconds. The setting is canceled when the next period starts or when Run Program is pressed.

Changing Temperature Setting Indefinitely

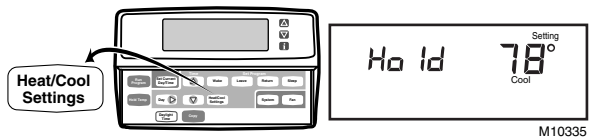
1. Press Hold Temp.



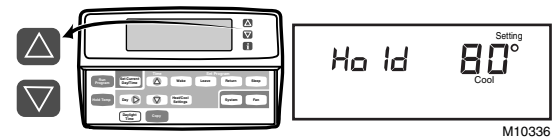
2. Press increase ▲ or decrease ▼ key to change the setting, if desired.



3. Press Heat/Cool Settings to change between heat and cool settings.



4. Press increase ▲ or decrease ▼ key to adjust temperature settings.

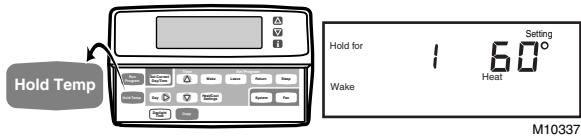


NOTE: The display changes from the setpoint to the room temperature after approximately 3 seconds.

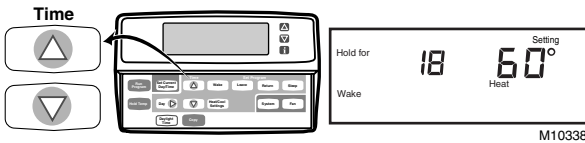
5. Press Run Program to cancel the Hold and to return to the program.

Changing Temperature Setting Until a Designated Day and Period

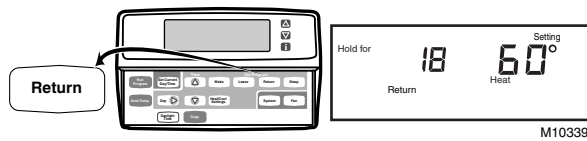
1. Press Hold Temp twice.



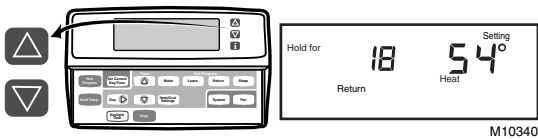
2. Press Time Δ or Time ∇ until the desired number of days is displayed (1 to 256 days). (Example: 18 = Hold will override the daily programs for 18 days)



3. Press Wake, Leave, Return or Sleep to select the period the program will start. (Example: Return = thermostat will stop the Hold at the Return period start time)



4. Press increase \blacktriangle or decrease \blacktriangledown key to adjust the temperature setting, if desired. (Example: Heat 54° = heating equipment will operate when the room temperature is below 54°F)



NOTE: When the System is set for Auto, both heat and cool settings are needed. If the System is set for Heat, only the Heat setpoint is needed or if Cool is selected, only the Cool setpoint is needed.

5. Press Heat/Cool Settings to change between heat and cool settings.
6. Press increase \blacktriangle or decrease \blacktriangledown key to adjust the temperature setting, if desired. (Example: Cool 84° = cooling equipment will operate when the room temperature is above 84°F)

NOTE: In this example, the thermostat uses the Hold setting for eighteen days and returns to the daily programs at the Return period start time. The temperature settings are heating 54°F and cooling 84°F. Only the heating temperature is used because the System is set for Heat. The thermostat will use both the heating and cooling temperature settings when the System is set to Auto.

IMPORTANT

If the Hold needs to be canceled before the designated time, press Run Program to return to the program.

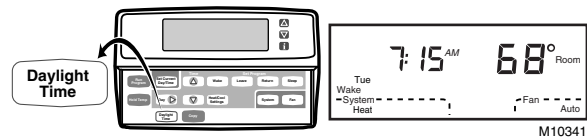
Setting Temporary Fan Operation

Press Fan until the desired fan operation is selected. This fan setting will be in effect until the next regularly scheduled period starts.

Using Daylight Savings Time Feature

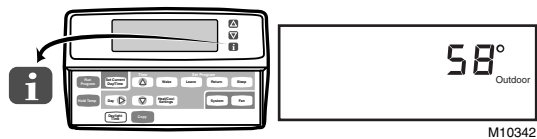
This feature allows you to change in and out of Daylight Savings Time with a key press. When Daylight Time is pressed in the fall, the time will go back one hour. In the spring, the time will go ahead one hour and the display will show DST. See Setting the Current Day and Time section for initial setting instructions.

NOTE: Pressing Daylight Time more than once within a five minute period will scroll you through various time options (example: one hour earlier or later with or without DST). Pressing Daylight Time six times in a five minute period will return you to your original settings.



Displaying the Outdoor Temperature

If your thermostat is equipped with an outdoor sensor, you can check the temperature at the sensor by pressing the **i** once.



OPERATION

P+I Control

The thermostat microprocessor based control requires that the user understands temperature control and thermostat performance. A conventional electromechanical or electronic thermostat does not control temperature precisely at setpoint. Typically, there is an offset (droop) in the control point as the system load changes. This is a phenomenon that most people in the industry know and accept. Many factors contribute to offset including switch differential, thermal lag, overshoot, cycle rates and system load.

The thermostat microprocessor simultaneously gathers, compares and computes data. Using this data, it controls a wide variety of functions. The special proprietary algorithm (program) in the thermostat eliminates the factors causing offset. This makes temperature control more accurate than the conventional electromechanical or electronic thermostats. The temperature control algorithm is called proportional plus integral (P+I) control.

The thermostat sensor, located on the thermostat or remote, senses the current space temperature. The proportional error is calculated by comparing the sensed temperature to the programmed setpoint. The deviation from the setpoint is the proportional error.

The thermostat also determines integral error, which is a deviation based on the length of error time. The sum of the two errors is the (P+I) error. The cycle rate used to reach and maintain the setpoint temperature is computed using the P+I. The addition of the integral error is what differentiates the thermostat from many other electronic and electromechanical thermostats. See Fig. 13.

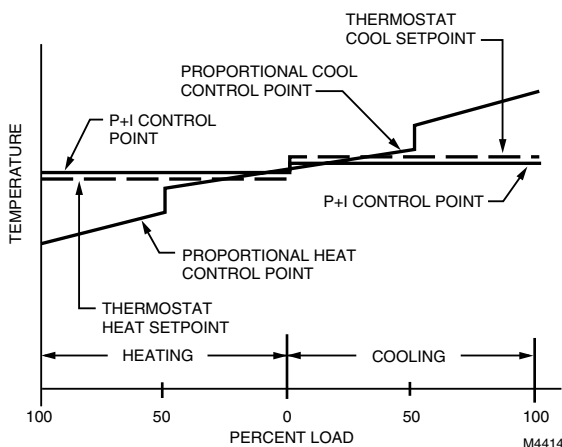


Fig. 13. Proportional temperature control versus P+I temperature control.

Operation Sequence

The thermostat energizes specific terminals depending what the Fan and System are set to. The LCD will display the time, room temperature, system and fan selection. Symbols will be displayed when the heating, cooling or fan is energized. See Table 10 for specific information.

NOTE: Not all the thermostat models have all the terminals listed in the Energize column.

Table 10. Heat Pump System Sequence of Operation.

Selection		Call	Energize	Display
Fan	System			
Auto	Off	None	None	None
On	Off	None	G	✖
Auto	Cool	None	O or O/B ^a	None
Auto	Cool or Auto	Stage 1 Cooling	O or O/B ^a with G and Y1	❄ and ✖
Auto	Heat	None	B or O/B ^a	None
Auto	Heat or Auto	Stage 1 heating	B or O/B ^a with W1 and G	🔥 and ✖
Auto	Heat or Auto	Stage 2 heating	B or O/B ^a with W2, W1 or Y1 and G	🔥, ✖, and Aux Ht
Auto	Em Heat	None	B or O/B ^a with X1	Em Ht
Auto	Em Heat	Stage 1 heating	B or O/B ^a with X1 and E and G (select models)	🔥, ✖, and Em Ht
Auto	Em Heat	Stage 2 heating	B or O/B ^a with X1, E and W2 and G (select models)	🔥, ✖, Em Ht and Aux Ht
Auto	Auto	None	O/B ^a , O or B ^b	None

^a Configure O/B (select models) in Installer Setup number 29.

^b Based on last piece of equipment called (cooling = O or heating = B) and Installer Setup selection.

Equipment Protection

As part of the operational sequence, the thermostat microprocessor also incorporates minimum off time for all heating and cooling stages. Using the minimum off time assures that rapid cycling of equipment does not occur, which extends equipment life. Minimum off times are set in the Installer Setup.

Thermostat Operation

Startup

When power to the thermostat is turned on, a startup and initialization program begins. The startup occurs only on initial powerup. After total loss of power for an extended period, the current time and day may need to be set, but the user program is held. See Table 11 for the default values.

NOTE: Immediately following initialization, the user can enter new setpoints to be used in place of the default values.

Table 11. Default Time, Setpoint and Fan Settings.

Period	Time	Heat Setpoint	Cool Setpoint	Fan Setting
Wake	6:00 AM	70°F (21°C)	78°F (25.5°C)	Auto
Leave	8:00 AM	62°F (16.5°C)	85°F (29.5°C)	Auto
Return	6:00 PM	70°F (21°C)	78°F (25.5°C)	Auto
Sleep	10:00 PM	62°F (16.5°C)	82°F (28°C)	Auto

Adaptive Intelligent Recovery® Feature

Adaptive Intelligent Recovery® control assures that the comfort setting is achieved at the programmed time regardless of weather conditions. Conventional recovery, however, starts recovery at the beginning of the programmed time period and used the equipment to achieve the comfort settings as soon as possible.

Adaptive Intelligent Recovery® control calculates the recovery ramp based on the number of degrees away from the desired setpoint, previous equipment performance, and weather history to initiate recovery at the optimal time to achieve the comfort setting at the desired time.

The Chronotherm® IV uses two recovery ramps, one for the compressor and one for the auxiliary heat. Once the room temperature intersects the compressor ramp, the compressor *snaps on* until the setpoint is reached. If the temperature does not rise fast enough and intersects the second ramp, the auxiliary heat comes on. If the setpoint is reached too early or too late, the ramp is adjusted for the next day's recovery. See Fig. 14.

Unlike the Chronotherm® III, the Adaptive Intelligent Recovery® can be turned off in the Installer Set-up mode. Honeywell does not recommend this because the auxiliary heat comes on once the program time begins, and runs continuously until the setpoint is reached.

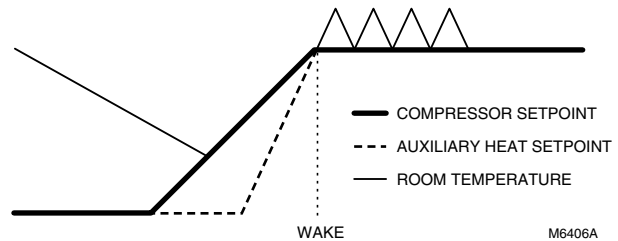


Fig. 14. Gradual temperature change in recovery.

TROUBLESHOOTING GUIDE

Refer to Table 12 for troubleshooting information.

Table 12. Troubleshooting Information.

Symptom	Possible Cause	Action
Display will not come on.	Thermostat is not being powered.	<ul style="list-style-type: none"> • Check for 24 Vac between R and C terminals. <ul style="list-style-type: none"> — If missing 24 Vac: <ul style="list-style-type: none"> — check if the circuit breaker is tripped—reset the circuit breaker. — check if the system fuse is blown—replace the fuse. — check if the power switch on the HVAC equipment is in the Off position—set to the On position. — check wiring between thermostat and HVAC equipment—replace any broken wires and tighten any loose connections. — If 24 Vac is present, proceed with troubleshooting.
Temperature display is incorrect.	Room temperature display has been reconfigured.	Enter Installer Setup number 37 and reconfigure the display.
	Thermostat is configured for °F or °C display.	Enter Installer Setup number 14 and reconfigure the display.
	Bad thermostat location.	Relocate the thermostat.
Temperature settings will not change. (Example: Cannot set the heating higher or the cooling lower.)	The upper or lower temperature limits were reached.	Check the temperature setpoints: <ul style="list-style-type: none"> • Heating limits are 40 to 90°F (7 to 31°C) • Cooling limits are 48 to 99°F (9 to 37°C)
	The setpoint temperature range stops were configured.	Check Installer Setup numbers 34 and 35 and reconfigure the setpoint stops.
Heating will not come on.	No power to the thermostat.	<ul style="list-style-type: none"> • Check for 24 Vac between R and C terminals. <ul style="list-style-type: none"> — If missing 24 Vac: <ul style="list-style-type: none"> — check if the circuit breaker is tripped—reset the circuit breaker. — check if the system fuse is blown—replace the fuse. — check if the power switch on the HVAC equipment is in the Off position—set to the On position. — check wiring between thermostat and HVAC equipment—replace any broken wires and tighten any loose connections. — If 24 Vac is present, proceed with troubleshooting.
Heating will not come on.	Thermostat minimum off time is activated.	Wait up to five minutes for the system to respond.
	System selection is not set to Heat.	Set system selection to Heat.
	Heating setpoint is below room temperature.	Check heating setpoint. Set heating setpoint to desired temperature.
Cooling will not come on.	No power to the thermostat.	<ul style="list-style-type: none"> • Check for 24 Vac between R and C. <ul style="list-style-type: none"> — If missing 24 Vac: <ul style="list-style-type: none"> — check if the circuit breaker is tripped—reset the circuit breaker. — check if the system fuse is blown—replace the fuse. — check if the power switch on the HVAC equipment is in the Off position—set to the On position. — check wiring between thermostat and HVAC equipment—replace any broken wires and tighten any loose connections. — If 24 Vac is present, proceed with troubleshooting.

(continued)

Table 12. Troubleshooting Information (continued).

Symptom	Possible Cause	Action
Cooling will not come on (Continued).	Thermostat minimum off time is activated.	<ul style="list-style-type: none"> • Wait up to five minutes for the system to respond. • Enter Installer Setup number 33. Reconfigure minimum off time (if required).
	System selection is not set to Cool.	Set system selection to Cool.
	Cool setpoint is above room temperature.	Check cooling setpoint. Set cooling setpoint to desired temperature.
Heating or cooling come on momentarily and shut off	Heat or cool circuit is opening up or becoming high impedance.	Add resistor in parallel with load or install interface relay.
System on indicator (flame=heat, snowflake=cool) is displayed, but no warm or cool air is coming from the registers.	Heating or cooling equipment is not operating.	Verify operation of heating or cooling equipment in System Test.
Outdoor temperature not displayed ^a	Option not activated.	Enter Installer Setup number 24 and set to 1. Thermostat must have OT terminals and a C7089B1000 installed.
Outdoor temperature display is incorrect ^a	Outdoor sensor is connected incorrectly.	Refer to C7089B1000 installation instructions and check wiring between the thermostat and sensor.
	Wrong sensor.	Replace sensor with C7089B1000 sensor.

^a Available on select models

CROSS REFERENCE

All SUPER TRADELINE® Chronotherm® IV thermostats are different from the existing Chronotherm® III devices as summarized in Table 13.

Table 13. Difference Between Chronotherm® III Thermostats And Chronotherm® IV Thermostats.

Feature/Function	Chronotherm® III Family	Chronotherm® IV Family
Programming	5-1-1 day programming	7-day programming
Changeover	Automatic or manual changeover models available	Automatic/manual changeover selectable
Installer Configuration	Field settings made via screws on the back of the thermostat	Field settings made through the keyboard
System switching	Mechanical switch	Keyboard entry
Fan switching	Mechanical switch	Keyboard entry
Device color	Beige or Premier White® color	Taupe or Premier White® color

Refer to Table 14 for thermostat cross referencing information.

Table 14. Thermostat Cross Reference Information.

Model Number	Description	TRADELINE® Replacement	Remarks
T8611G	Two-stage heat and one-stage cool heat pump thermostat; powered direct from 24 Vac transformer; automatic changeover; system switch—EM HEAT-HEAT-OFF-COOL-AUTO; fan switch—ON-AUTO; O/B or O and B terminals		
T8611G1004	TRADELINE® thermostat; Honeywell logo.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal in 29; jumper Y1 to W1.
T8611G1012	Canadian TRADELINE® thermostat; Honeywell logo; degree C.	T8611G2002	Configure changeover in Installer Setup 12, °C in 14 and O/B terminal in 29; jumper Y1 to W1.
T8611G1020	Heil Quaker; part no. HQ713669HW.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal in 29; jumper Y1 to W1.
T8611G1038	Trane; part no. THT-0603; ordering no. X13510323-13-7.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal in 29; jumper Y1 to W1.
T8611G1046	Carrier; part no. HH07AE001.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal to O in 29; jumper Y1 to W1.
T8611G1053	Lennox; part no. 27H3001.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal in 29; jumper Y1 to W1.
T8611G1095	Trol-A-Temp® by Honeywell thermostat.	T8611G2051 ^a	O and B terminals are not used.
T8611G1103	TRADELINE® thermostat; Honeywell logo; Premier White® color.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal in 29; jumper Y1 to W1; taupe color.
T8611G1111	Trane; Premier White® color; part no. TAYSTAT501.	T8611G2002	Wiring differences (old=new): F=L, B=C; configure changeover in Installer Setup 12 and O/B terminal to O in 29; taupe color.
T8611G1145	Canadian TRADELINE® thermostat; Honeywell logo; Premier White® color; degree C.	T8611G2002	Configure changeover in Installer Setup 12, °C in 14 and O/B terminal in 29; jumper Y1 to W1; taupe color.
T8611G1152	Solitare logo; Premier White® color; Nordyne part no. 9132410.	T8611G2002	Configure changeover in Installer Setup 12 and O/B terminal in 29; jumper Y1 to W1; taupe color.
T8611G1178	Canadian Carrier; Premier White® color; degree C; part no. HH07AE001C-W.	T8611G2002	Configure changeover in Installer Setup 12, °C in 14 and O/B terminal in 29; jumper Y1 to W1; taupe color.
T8611R	Two-stage heat and one-stage cool heat pump thermostat; powered direct from 24 Vac transformer; system switch—EM HEAT-HEAT-OFF-COOL; fan switch—ON-AUTO; O/B or O and B terminals		
T8611R1000	TRADELINE® thermostat; Honeywell logo.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1018	York; part no. 025-27655.	T8611G2002	Wiring differences (old=new): B=C, H=B, X=L; configure O/B terminal in Installer Setup 29.
T8611R1034	Rheem; Honeywell logo; part no. 41-21594-05.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1042	Canadian TRADELINE® thermostat; Honeywell logo; degree C.	T8611G2002	Configure O/B terminal in Installer Setup 29 and °C in 14; no P terminal; taupe color.
T8611R1059	Coleman; part no. 3600A381.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.

^a Contact Trol-A-Temp® for thermostat.

Table 14. Thermostat Cross Reference Information (continued).

Model Number	Description	TRADELINE® Replacement	Remarks
T8611R1067	ArcoAire; part no. 1506-744.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1075	Comfortmaker.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1083	Amana; part no. D9807605.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1091	Trane.	T8611G2002	Wiring differences (old=new): B=C, F=L, X2=E, W1=W2; configure O/B terminal to O in Installer Setup 29; jumper W1 to Y1.
T8611R1109	Trane; part no. THT-0602; ordering no. X13510323-12-7.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1117	Trane; part no. ASYSTAT700.	T8611G2002	Wiring differences (old=new): B=C, F=L, X2=E, W1=W2; configure O/B terminal to O in Installer Setup 29; jumper W1 to Y1.
T8611R1125	Trol-A-Temp® by Honeywell thermostat.	T8611G2051 ^a	Jumper Y1 to W1.
T8611R1133	TRADELINE® thermostat; Honeywell logo.	T8611G2002	Wiring differences (old=new): B=C, H=B, X=L; configure O/B terminal in Installer Setup 29.
T8611R1141	TRADELINE® thermostat; Honeywell logo; Premier White® color.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal; taupe color.
T8611R1158	TRADELINE® thermostat; Honeywell logo; Premier White® color.	T8611G2002	Wiring differences (old=new): B=C, H=B, X=L; configure O/B terminal in Installer Setup 29; taupe color.
T8611R1174	Phillips Energy.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal.
T8611R1182	Armstrong; Premier White® color.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal; taupe color.
T8611R1190	Inter-City Products; Premier White® color; part no. HQ1149375HW.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal; taupe color.
T8611R1208	Carrier Weathermaker; part no. HH07AX114.	T8611G2002	Configure heating cycle rate in Installer Setup no. 4, 5, 7 and O/B terminal in 29; no P terminal.
T8611R1216	Carrier Zone Perfect; part no. HH07AX115.	T8611G2002	Configure heating cycle rate in Installer Setup no. 4, 5, 7 and O/B terminal in 29; no P terminal.
T8611R1224	Consolidated logo; Premier White® color.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal; taupe color.
T8611R1240	Millbrook Industries logo; Premier White® color.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal; taupe color.
CT8611R	Two-stage heat and one-stage cool retail heat pump thermostat; powered direct from 24 Vac transformer; system switch—EM HEAT-HEAT-OFF-COOL; fan switch—ON-AUTO; O and B terminals		
CT8611R1006	Retail Honeywell logo; clamshell packaging; off-white color.	T8611G2002	Configure O/B terminal in Installer Setup 29; no P terminal; TRADELINE® packaging; taupe color.

^a Contact Trol-A-Temp® for thermostat.

WIRING DIAGRAM (FIG. 15 AND 16)

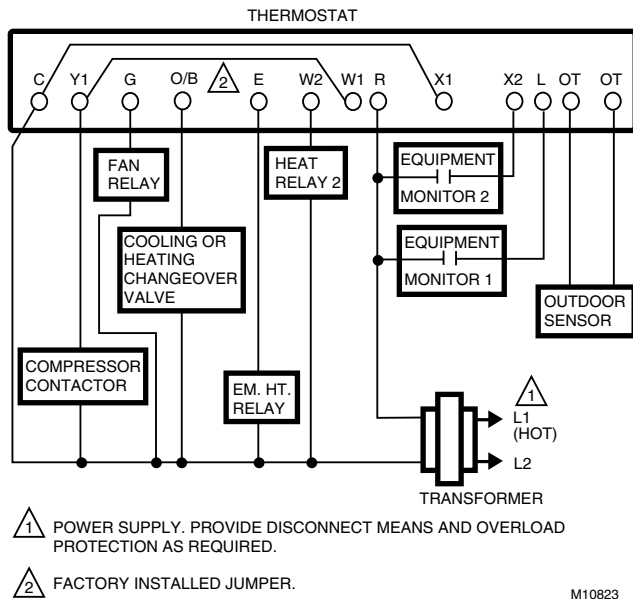


Fig. 15. Typical hookup of T8611G .

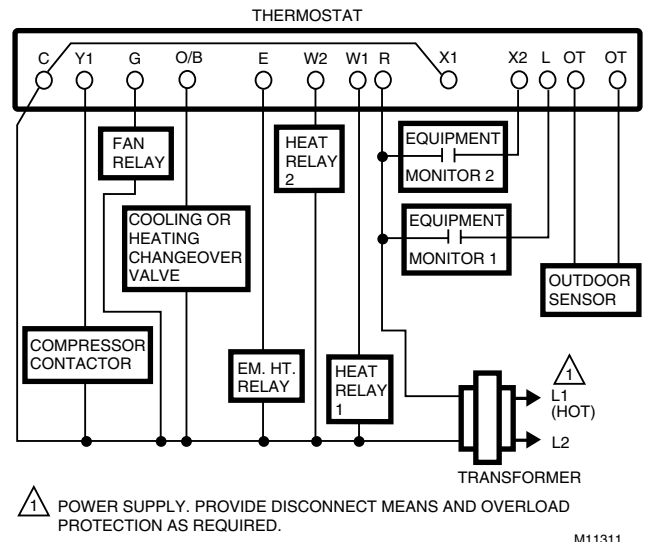


Fig. 16. Typical hookup of T8611G with isolated stage-one heating and cooling connections.

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