CT1700A *ultrastat*™ MOTION-ACTIVATED LINE VOLTAGE THERMOSTAT

Programmable control for baseboard heaters.

Temperature Setting Range: 44 °F to 80 °F [7 °C to 27 °C].
Motion Detection: Infrared detection up to 23 ft [7m]; 60 degrees vertical and 110 degrees horizontal viewing angle.
Light Detection: Photoresistive element with adjustable light level sensitivity.
Switching: Triac based (spst).

Ratings: 10.5A maximum at 208 to 240 Vac, 50/60 Hz, 2500W. (To determine baseboard wattage, check the nameplate or measure the length of the baseboards the thermostat will control. Generally, if the length of the baseboards is more than ten feet per thermostat, the wattage is probably over 2500W. You need to call an electrician.)
Not for use with central heating systems or fan-forced heaters.

Do-it-yourself model.

YOUR HONEYWELL THERMOSTAT

Your new Honeywell CT1700 adjusts room temperature to maximize comfort and energy savings by sensing light and motion. It provides 15% to 23% energy savings compared to nonprogrammable electric heating thermostats. The CT1700 replaces any two-wire, spst, line voltage thermostat used for controlling electric baseboard heat.

CONTENT   SECTION

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PREPARATION

☐ Proper installation of your Honeywell thermostat will occur if you follow instructions *step-by-step*. It is recommended that as you read, understand and complete each step, you check √ it off with pencil or pen.

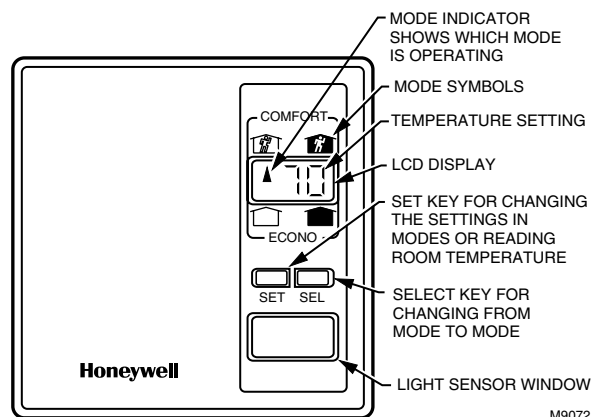☐ Check thermostat suitability for your home's system by reviewing the ratings listed on the front of these instructions.

☐ Make certain that your heating system is working, especially if it has been inoperative for a length of time. If the system does not work, contact your local electrician for assistance.

☐ Carefully unpack your new thermostat.

☐ Save instructions, receipt and proof-of-purchase.

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THERMOSTAT FEATURES

MODE INDICATOR SHOWS WHICH MODE IS OPERATING
MODE SYMBOLS
TEMPERATURE SETTING
LCD DISPLAY
SET KEY FOR CHANGING THE SETTINGS IN MODES OR READING ROOM TEMPERATURE
SELECT KEY FOR CHANGING FROM MODE TO MODE
LIGHT SENSOR WINDOW

COMFORT — ECONO — SET — SEL
M9072

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REMOVE OLD THERMOSTAT

⚠ CAUTION

To prevent electrical shock or equipment damage, disconnect power supply before beginning installation.

☐ Begin by turning off power to the heating system.

☐ Remove cover of old thermostat—cover normally snaps off when pulled firmly from the bottom. If it resists, check for a screw that locks on the cover.

☐ Loosen the screws holding the thermostat base to the electrical box and lift away.

☐ Disconnect wires from the old thermostat. If the old thermostat was not mounted to a vertical outlet box, install a box now.

☐ Check the old wire insulation for cracks, nicks or fraying, and apply UL Listed/CSA Certified electrical tape where necessary, for adequate insulation.

☐ Retain the old thermostat for reference later and until your new thermostat is functioning smoothly.
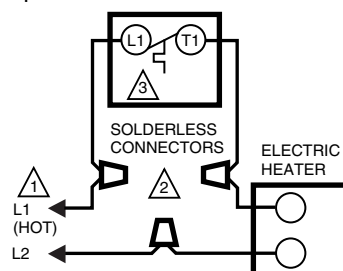
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WIRE AND MOUNT NEW THERMOSTAT

☐ Remove the CT1700A cover by grasping the top or bottom edges and pulling outward away from the thermostat base.

☐ Connect wires to the thermostat, as shown in the wiring diagram, using approved solderless wire connectors.

NOTE: Special service CO/ALR wire connectors must be used when connecting with aluminum conductors; otherwise, a fire hazard can result.

☐ Prebend and push the wires into the outlet box. Mount the thermostat on the outlet box using the screws provided.

SOLDERLESS CONNECTORS   ELECTRIC HEATER
L1 (HOT)
L2

1 POWER SUPPLY. PROVIDE DISCONNECT MEANS AND OVERLOAD PROTECTION AS REQUIRED.

2 SPECIAL SERVICE CO/ALR SOLDERLESS CONNECTORS MUST BE USED WHEN CONNECTING WITH ALUMINUM CONDUCTORS; OTHERWISE, A FIRE HAZARD CAN RESULT.

3 TRIAC CONDUCTS EVERY 15 SECONDS UNLESS ROOM TEMPERATURE IS ABOVE SETPOINT.   M3643A

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CHECK OUT THERMOSTAT

☐ Turn on the power to the heating system. The thermostat will display "SC" for 15 seconds, showing the system is operating properly. If an "E" flashes continuously, the thermostat is defective. Return the thermostat for a replacement unit.

☐ "Occupied-dark" indicator will flash for two minutes while the thermostat program is being initialized. Next, the actual operating program will be displayed. (It takes three minutes from turning on the power for the programmed temperature to be displayed.)

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PROGRAMMING

Tap the SEL key to move between modes. The display changes in the following order: occupied-light, unoccupied-light, unoccupied-dark, occupied-dark, L, F or C.

NOTE: To lessen temperature changes when an occupant leaves an area, the CT1700 will not change from an occupied to unoccupied setting for 60 minutes (light setting) or for three hours (dark setting). If you notice your pet activating the program, cover up the lower half of the sensor window or program temperature changes for only light and not occupancy.

Sample Programs

Mode	KITCHEN Remarks	Temp. Setting	LIVING OR FAMILY ROOM Remarks	Temp. Setting	BEDROOM Remarks	Temp. Setting
Occupied-light	Set for a comfortable temperature for eating or cooking.	68° F [20° C]	Set for a comfortable temperature for reading or watching TV.	68° F [20° C]	Set for a comfortable temperature for getting up in the morning.	68° F [20° C]
Unoccupied-light	Set the temperature desired when you are out of the room in the daytime.	60° F [15° C]	Set the temperature desired when you are out of the room in the daytime.	60° F [15° C]	Set the temperature desired when you are out of the room in the daytime.	60° F [15° C]
Unoccupied-dark	Program for when no one is using the kitchen.	60° F [15° C]	Program for when no one is using the room.	60° F [15° C]	Program for when no one is using the bedroom.	60° F [15° C]
Occupied-dark	This mode is primarily for sleeping rooms. Set temperature desired when no one is using the kitchen.	60° F [15° C]	This mode is primarily for sleeping rooms. Set temperature desired when no one is using the room.	60° F [15° C]	Set desired temperature for sleeping.	62° F [16° C]
LIGHT LEVEL	Use the least sensitive setting so the thermostat does not sense the light from an open refrigerator door at night.	L3	Use the most sensitive setting so the thermostat will sense the tv or small reading light.	L1	Use the average setting.	L2

Fahrenheit or Celsius Temperature Display

☐ Select Fahrenheit or Celsius by tapping the SEL key until F or C appear in the LCD display. Tap the SET key to select the setting.

Program Temperature Setting

NOTE: If programming in Fahrenheit, only even numbered temperatures (i.e., 66, 68, 70) can be selected. The temperature setting range is 40° to 86° F [5° to 30° C].

☐ Tap the SEL key until the indicator on the LCD points to the desired condition (i.e., occupied-dark). Press the SET key to select the desired temperature. Repeat for each condition.

Program Light Level

Consider the ambient outdoor and indoor lighting over a 24 hour period when setting the light level. The three light level settings are: L1—the most sensitive so it is used when you want the thermosat to respond to a low light level, like the TV or reading light; L2—average setting so it is used for most rooms; L3—the least sensitive setting so it is used in well-lit areas.

☐ Tap the SEL key until the LCD displays L1, L2 or L3. Tap the SET key to change the light setting.

Review Program

☐ Tap the SEL key to scroll between settings. If you want to change any setting, tap the SET key until the display shows the desired setting.

Reading Current Temperature

☐ Tap the SET key. The room temperature and four indicators will be displayed for about ten seconds. The display range is 40° to 86°F [5° to 30°C]. When the room temperature is warmer than 86° F [30° C], the two upper indicators will be displayed. When the room temperature is colder than 40° F [5° C], the two lower indicators will be displayed.

Loss of Power

The CT1700 maintains the program during loss of power without batteries. The display will go blank and when power is restored, the display will go through the steps in the CHECK OUT THERMOSTAT section.

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