Honeywell / TROLATEMP

T8131C
Programmable Thermostat

10:30 PM 68° HEAT
FRI
SLEEP

69-0908-1

Welcome to the world of comfort and energy savings with your new Honeywell Trol-A-Temp® programmable thermostat.

Your new T8131 Thermostat is designed to provide you with reliable, precise temperature control. By following the simple programming instructions in this manual, your thermostat will automatically control the temperature in your home. Temperature control saves energy and allows you to awake (or return home) to a comfortable level of heating or air conditioning.

Direct questions concerning the operation of this thermostat to Honeywell Customer Assistance at 1-800-468-1502, Monday-Friday, 7:00 a.m.-5:30 p.m., Central time.

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Programming Thermostat

NOTE: When batteries are installed, your T8131 Thermostat can be programmed in your hand (armchair programming), or when it is mounted on the wall. Batteries are not required for normal thermostat operation; however, installed batteries are recommended to retain your personal temperature program in memory if ac power is lost. See Installing Batteries section.

When you program the thermostat, set one schedule for weekdays and another for weekends, because your temperature requirements probably vary. (During weekends, only the WAKE and SLEEP time periods are available.)

Use the personal Program Schedule for planning your program schedule of time and temperature settings for various times of the day.

Four time periods are available during weekdays —WAKE, LEAVE, RETURN, and SLEEP. View these periods individually on the display when you press the **Set Schedule** key.

Select WAKE if you want the house at a comfortable temperature when you get up, while you get ready for work or school. When deciding what time to set for your WAKE period, include extra lead time, depending on the outside temperature and your furnace response time, to give the furnace a head start to heat the house before you get up. (This will be a higher temperature during heating season, or a lower temperature during cooling season.)

Select LEAVE if you want an energy-saving temperature while you are away at work or school. (This will be a lower temperature during heating season, or a higher temperature during cooling season.)

Select RETURN if you want the house at a comfortable temperature for activities before bedtime. When deciding what time to set for your RETURN period, include extra lead time, depending on the outside temperature and your furnace response time, to give the furnace a head start to heat the house before you arrive home. (Again, higher for heating or lower for cooling.)

Select SLEEP if you want an energy-saving temperature while you are sleeping. (For more comfortable sleeping, some people choose not to raise the cool temperature during the night.)

Fill in the times and temperatures you desire for weekdays and weekends. If you decide not to program the thermostat, it automatically controls heating at 68°F (20°C) and cooling at 78°F (26°C), 24 hours a day. Also, you do not need to enter a time and temperature program for all periods if your schedule does not require it. For example, a house that is occupied during weekdays would not require programs for LEAVE and RETURN.

When pressing the keys, use the ball of your finger or a soft pencil eraser.

NOTE: Using sharp fingernails or pencil points can damage the keypad.

If you make an error at any time during programming, just press the **Run Program** key, and continue again at the last step.

Program Schedule

HEATING PROGRAM SCHEDULE

Weekdays	**Start Time**	**Heating Temperature** ⚠2
WAKE ⚠1	_____	_____
LEAVE	_____	_____
RETURN ⚠1	_____	_____
SLEEP	_____	_____
Weekends		
WAKE ⚠1	_____	_____
SLEEP	_____	_____

⚠1 WAKE and RETURN start times should include extra lead time, based on outside temperature and furnace response time, to give your furnace a head start to heat the house.

⚠2 The temperatures cannot be set any higher than 88°F (31°C) or any lower than 45°F (7°C).

COOLING PROGRAM SCHEDULE

Weekdays	**Start Time**	**Heating Temperature** △2
WAKE △1	_____	_____
LEAVE	_____	_____
RETURN △1	_____	_____
SLEEP	_____	_____
Weekends		
WAKE △1	_____	_____
SLEEP	_____	_____

△1 WAKE and RETURN start times should include extra lead time, based on outside temperature and furnace response time, to give your furnace a head start to heat the house.

△2 The temperatures cannot be set any higher than 88°F (31°C) or any lower than 45°F (7°C).

NOTE: If you decide not to program the thermostat, it automatically controls heating at 68°F (20°C) and cooling at 78°F (26°C), 24 hours a day.

T8131C Programming Guide

NOTE: Batteries are required only for armchair programming, and to retain your personal temperature schedule in memory if ac power is lost. When replacing batteries, set the system switch to OFF. Remove the battery door (on the thermostat left side) using a coin at the bottom. Follow instructions in Installing Batteries section.

Set Current Time/Day

To set time, press and release [Set Clock/Day] once, and press [Ahead / Back] until current time shows; to set day, press and release [Set Clock/Day] again, and press [Ahead / Back] until current day shows; then press [Run Program].

Heating Program

With system switch at HEAT, press and release [Weekday Schedule] once. WAKE, MON-FRI and SET appear on display.

Press $\boxed{\begin{array}{c}\text{Ahead}\\\hline\text{Back}\end{array}}$ to program WAKE time and $\boxed{\begin{array}{c}\text{Warmer}\\\hline\text{Cooler}\end{array}}$ to program WAKE temperature for Mon-Fri.

Repeat sequence for LEAVE, RETURN, and SLEEP.

Press Weekend Schedule until SAT SUN, WAKE and SET appear on display. Press $\boxed{\begin{array}{c}\text{Ahead}\\\hline\text{Back}\end{array}}$ to program

WAKE time and press $\boxed{\begin{array}{c}\text{Warmer}\\\hline\text{Cooler}\end{array}}$ to program WAKE temperature for Sat-Sun. Repeat sequence for SLEEP.

Cooling Program
With system switch at COOL, follow the same instructions as for the Heating Program.

After programming, adjust fan and system switches, as desired. Press and release Run Program to start the program.

A quick guide for operating or making changes follows:

NOTE: Set system switch to HEAT or COOL to perform the following:

Temporarily Change temperature for current period only—press `Warmer` `Cooler` ; temperature cancels itself at next scheduled change; to cancel sooner, press `Run Program` .

Hold a temperature indefinitely—press `Hold Temp` , `Warmer` `Cooler` ; to cancel, press `Run Program` .

Check Current Temperature Setting—press `Present Setting` .

Check Programs—press `Weekday Schedule` then `Weekend Schedule` repeatedly to see each time and temperature; then press `Run Program` .

Cancel a program—press `Weekday Schedule` then `Weekend Schedule` until program to cancel shows; then

press `Clear` .

Check Usage — press `Usage` to determine length of time heat or air conditioning has been on

since midnight; press again for yesterday's usage, and again for cumulative usage.

Press `Clear` to clear cumulative reading, if desired; then press `Run Program` .

Permanently Change a program—repeat steps in Heating Program or Cooling Program sections (pages 5 and 6), as applicable.

Return to normal program or start program —press `Run Program` .

> **Questions?**
> Call Honeywell
> Customer Assistance
> 1-800-468-1502.

Setting Fan and System Switches

First set the fan switch.

AUTO: Normal setting for most homes. A single-speed fan turns on automatically with the air conditioner or furnace. A two-speed fan usually runs on high with the air conditioner and runs on low with the furnace.

Auto   On
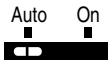
ON: The fan runs continuously. Use for improved air circulation during special occasions or for more efficient electronic air cleaning.

Auto   On
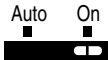
Then set the system switch.

COOL: The thermostat controls your air conditioning system.

Cool   Off   Heat
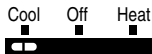
OFF: Both the heating and air conditioning systems are off.

Cool   Off   Heat
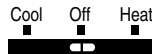
HEAT: The thermostat controls your heating system.

Cool   Off   Heat
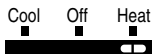
Installing Batteries

IMPORTANT
> Batteries are required only for
> armchair programming and to retain
> your personal temperature schedule
> in memory if ac power is lost.

- Use two AA alkaline batteries; nonalkaline
  batteries do not last as long. We recom-
  mend Energizer® batteries.
- Make sure the thermostat is set to the OFF
  position.
- Use a coin to remove the battery door.
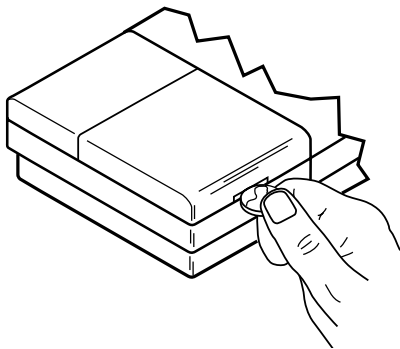
REMOVING
BATTERY
DOOR

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To remove the batteries, press down on the left ends of the batteries. If you insert new batteries within 20 to 30 seconds of removing the old ones, the thermostat does not require reprogramming. However, if the display is blank, the batteries are dead or incorrectly installed and the thermostat requires reprogramming.

- Install the fresh batteries, as shown, making sure positive and negative terminals are oriented correctly.
- Replace the battery door.
- Replace the batteries once a year to assure memory retention if ac power is lost.

INSTALL TWO AA ALKALINE BATTERIES AS SHOWN
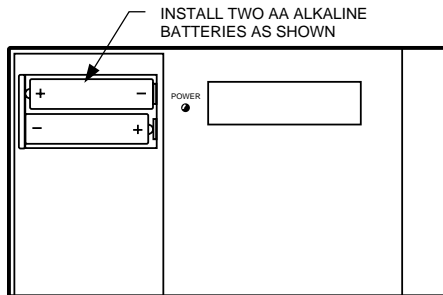
M9203

Troubleshooting Guide

IF...
Display will not come on.

THEN...
- Check that the green light emitting diode (LED) located to the left of the LCD is lit, indicating the thermostat is powered properly.

Temperature display will not go lower than 45°F (7°C) or higher than 88°F (31°C) during programming.

- The temperature setting limit was reached. The setting range is 45°F to 88°F (7°C to 31°C).

Temperature change occurs at the wrong times.

- Verify the program times for the period. Be sure that AM and PM indications are correct. Make sure the current day and time are correct. Reprogram if necessary.

Heating will not come on.

- Check that the green LED is lit.
- Check that the switch on the thermostat is set to HEAT.
- Check the system fuse or circuit breaker and replace or reset, if necessary.

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Heating will not come on (Cont).

■ If temperature setting is higher than the current temperature and displays HEAT, contact Honeywell Customer Assistance at 1-800-468-1502.

Cooling will not come on.

■ Check that the green LED is lit.

■ Check that the switch on the thermostat is set to COOL.

■ Check the system fuse or circuit breaker and replace or reset, if necessary.

■ The thermostat has a built-in time delay on cooling. Allow five to ten minutes after changing the setting before the air conditioner starts.

■ If temperature setting is lower than current temperature and displays COOL, move the system switch from COOL to OFF for ten minutes. After ten minutes, return the switch to the COOL position. If the air conditioner comes on, the compressor could have reached its high limit temperature protection and shut down. If the air conditioner does not come on after the

Cooling will not come on (Cont).	ten minutes and displays COOL, contact the Honeywell Customer Assistance at 1-800-468-1502.
The house is too warm or too cool.	■ Press PRESENT SETTING key to check the current temperature setting. ■ If desired, change the temperature setting. See page 5.
SYSTEM ON indicator is lit, but no heat is coming from the registers.	■ Allow time for the furnace to heat up and the fan to come on before checking for heat at the register.
The furnace or air conditioner On cycle is too short or too long.	■ Contact your heating or air conditioner contractor. If further assistance is needed, call Honeywell Customer Assistance at 1-800-468-1502.
The current thermostat setting does not match the display temperature.	■ Be aware that it is normal for the current setting and display temperature to differ occasionally.
bAt Lo **remains on display after fresh batteries are installed.**	■ Remove batteries. Wait one hour. Install fresh alkaline batteries.

TYPICAL ENERGY SAVINGS FOR REPRESENTATIVE CITIES IN THE U.S. AND CANADA

Savings for Once-A-Day 10°F (5°C) decrease

Savings for Twice-A-Day 10°F (5°C) decrease*

Savings for 5°F (3°) summer increase

Approximate percentage of energy/ cost savings
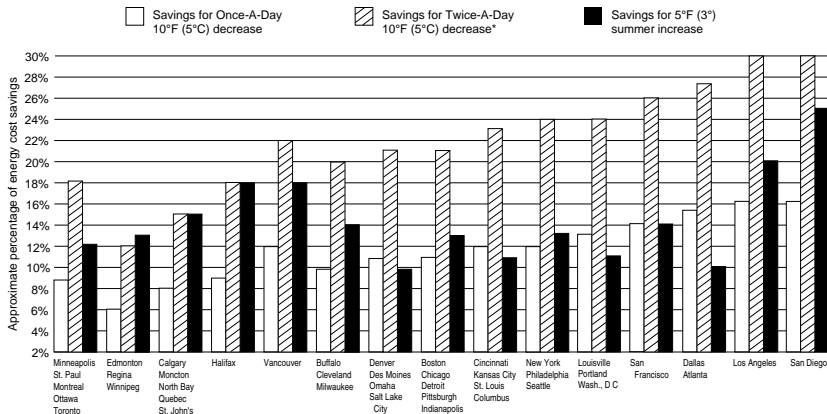
*Based on 10°F (5°C) decrease—(5°F (3°C) decrease gives approximately 55 percent of these savings).

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Thermostat patents pending.

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Limited One-Year Warranty

Honeywell warrants this product, excluding battery, to be free from defects in the workmanship or materials, under normal use and service, for a period of one (1) year from the date of purchase by the consumer. If, at any time during the warranty period, the product is defective or malfunctions, Honeywell shall repair or replace it (at Honeywell's option) within a reasonable period of time.

If the product is defective,

(i)   return it, with a bill of sale or other dated proof of purchase, to the dealer or contractor from which you purchased it, or

(ii) package it carefully, along with proof of purchase (including date of purchase) and a short description of the malfunction, and mail it, postage prepaid, to the following address:

> Honeywell Inc.
> Return Goods Department
> 1050 Berkshire Lane
> Plymouth, MN 55441-4437

This warranty does not cover removal or reinstallation costs. This warranty shall not apply if it is shown by Honeywell that the defect or malfunction was caused by damage which occurred while the product was in the possession of a consumer.

Honeywell's sole responsibility shall be to repair or replace the product within the terms stated above. HONEYWELL SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND, INCLUDING ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING, DIRECTLY OR INDIRECTLY, FROM ANY BREACH OF ANY WARRANTY, EXPRESS OR IMPLIED, OR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you.

THIS WARRANTY IS THE ONLY EXPRESS WARRANTY HONEYWELL MAKES ON THIS PRODUCT. THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IS HEREBY LIMITED TO THE ONE YEAR DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state.

If you have any questions concerning this warranty, please write our Customer Assistance Center, Honeywell Inc., P.O. Box 524, Minneapolis, MN 55440-0524 or call 1-800-468-1502, Monday-Friday, 7:00 a.m. to 5:30 p.m., Central time. In Canada, write Retail Products ON30, Honeywell Limited/Honeywell Limitée, 155 Gordon Baker Road, North York, Ontario M2H 2C9.

Toll-free Customer Assistance

For all questions concerning this thermostat, please read and follow the instructions. If additional assistance is needed, call Honeywell Customer Assistance toll-free at 1-800-468-1502, Monday-Friday, 7:00 a.m.-5:30 p.m. Central time.

Before you call, please have the following information available: Thermostat model number and date code, and type of heating/cooling system (for example, hot water, warm air, oil and gas).

Honeywell / TROL▲TEMP