

FEATURES (right side of cover shown open) DISPLAY WINDOW



SIMPLE PROGRAMMING

It's easy to program the thermostat to fit your lifestyle.

- 1. Move the power switch to ON.
- 2. Hold MODE key until 12:00 AM shows in display.

 Use SLOW key to set the time of your first program. Hold to go forward; tap to go back.
 Use HEAT and COOL keys to set temperatures for your first program. For heat, hold HEAT key to go higher, tap to go lower. For air conditioning, hold COOL to go lower, tap to go

higher.

 Set all other programs by repeating steps 3 & 4. Press MODE to lock in for all 7 days.
 Hold MODE until SET CLOCK shows in display. Use FAST, then SLOW to move to current time and day. (Clock only accurate to within 10 minutes.) Tap MODE to lock in (temperature and set point indicators will appear).

7. To review programs, hold FAST or SLOW key.

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Welcome to the world of comfort and energy savings with your new Honeywell Magic Stat® electronic thermostat. The Magic Stat® name is synonymous with innovation and state-of -the-arl electronic controls.

Your new thermostat will automatically control the temperature in your home, keeping you comfortable while saving energy when programmed according to the instructions in this manual. This thermostat includes the Weather **Monitor®** feature. The operation of your furnace or air conditioner is started early enough to reach the desired temperature at the times you set. There is no need for you to guess when the system should turn on to reach the desired temperature. When the outside temperature drops or rises dramatically, the thermostat activates earlier or later to meet the next programmed setting,

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QUICK REFERENCE TO THE KEYS

Use to program heating temperatures. To raise the temperature by 2° increments, press and hold the key. To lower the temperature, tap the key.

Heat

Use to program air conditioning temperatures. To lower the temperature by 2° increments, press and hold the key. To raise the temperature, tap the key.

cool

Off

ON allows for thermostat operation. OFF erases any program and disables the furnace and air conditioner.

Power

On

ON allows the fan to run continuously. (Applicable only to systems with more than Fan AUTO sets the fan to turn on and off with the heating or air conditioning system.

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a power outage, and if programming the thermostat before installing it. A 9 V alkaline battery (purchase separately) must be installed to save the program in case or

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ALKALINEBATTERY

For best results, replace the battery once a year to prevent loss of program.

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increments. To step the clock backward by 10 minute increments, tap the key. When in PROGRAM mode, hold key to advance program time in 30 minute increments. To step the time backward by 30 minute increments, tap the key.

advance to next programmed temperature range; tap to back up. When in SET CLOCK mode, hold key to advance clock time in 10 minute

When in PROGRAM mode, use to review entered programs. Hold key to

ments. To step the clock backward by 4 hour increments, tap the key.

When in SET CLOCK mode, hold key to advance clock time in 4 hour incre-

2

used only after the thermostat has been programmed. See page 22.

at 2 to 6 different times per day, for each day of the week. SET CLOCK-allows you to enter the current time to within 10 minutes. HOLD-allows you to set and hold one temperature until you choose to change it. This feature can be used only after the thermostat has been programmed. See

HOLD UNTIL—allows you to set and hold one temperature for up to a week; it will return to your normal schedule at a time and day you set. This feature can be

Tapping the Mode key interrupts function sequencing, and returns to display of

PROGRAM-allows you to program the heating and cooling temperature points,

Before the thermostat is programmed, holding this key sequences through PROGRAM and SET CLOCK. After the thermostat is programmed, holding this key

Mode sequences through the 4 functions; release when desired function is reached. The

four functions include:

present room temperature.

page 20.



Fast





slow

PROGRAMMING YOUR THERMOSTAT

You may program this thermostat either before or after installation. See installation manual form number 69-8025 for installation instructions.

If you are programming the thermostat before installation, be sure the battery is installed (see page 4). During programming, if you leave the thermostat for a few minutes, it will go hlank to save battery power. This does not affect your program; hold HEAT key to relight the display.

STEP 1 SET THE PROGRAM SCHEDULE AND TEMPERATURES

Before you begin... The schedule form on page 31 provides an opportunity to plan your schedule. Please fill it out before you begin.



Open right-hand door of thermostat. Switch to OFF to clear the thermostat.

Power



To begin programming, press and hold until the display looks like this. If you pass this display, ode continue to hold key until this display comes back. NOTE: All seven day indicators are onto tell you that you are programming every day of the week the same. You will be able to change individual days later.

To set the first time program, press and hold until the display shows the time you want to wake up (6:00 "**o**"AM shown).

> The time advances in 30-minute intervals. You can back up by tapping the key; go forward by holding the key.







To set the first temperature program, press and hold until the display shows the temperature you want when you wake up during the heating season (72° Heat shown) .Youcan backup bytapping thekey.

The LEFT temperature set point indicator should be stopped under the heating temperature you desire when you wake up, a maximum of 80° F.



If you have air conditioning, press and hold until the display shows the temperature you want when you wake up during cooling season (76° shown). You Cool can backup by tapping the key. You must have a 6° or greater difference between heat and cool temperature settings.

EM	PERATURE SET POINT	INDICAT	ORS
	60 70 80 /	90	
1	<u>nnnhmmm11111111</u>		
	6:00 p riboggram		
ith		m	
	SMTWTF	s	

TEMPERATURE SET POINT INDICATORS

60 70 80 90
641
6:000 program
AM
∎ ma ma ma u∎ m∎ m∎
SMTWTFS

The RIGHT temperature set point indicator should be stopped under the cooling temperature you desire when you wake up, with a minimum of 62° F.

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To set additional program times and temperatures, repeat steps starting on lower half of page 7 through here. First set a time, then enter heating and cooling temperatures desired at that time.

You must set at least one more time/temperature schedule, and may set up to a total of 6 per day. They must beat least 30 minutes apart.



After programming is complete, hold to lock in place. It is now copied into all 7 days of the. week. If **you want different** programs for different days, S e e page 15.

Γ	60 70 80 90
	SET CLOCK 12:30
	AM ■
	SMTWTFS

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STEP 2 SET THE CURRENT DAY AND TIME

Now you will set the current day and time of day.



Press until the display looks like this.

Press until you reach the correct day (Wednesday shown) and approximately the correct time, within 4 Fast hours. (Hold the key to advance the time in 4 hour increments, tap the key to back up.)





WEDNESDAY SHOWN



Mode memory. The normal room temperature display will

Tap to store the time and date in the thermostat's





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STEP 3 CHECK YOUR SETTINGS

return.

Ν	/lode

Press until PROGRAM shows in the display.

6:00 program AM
SMTWTFS

Fast	

Press to review each program you have set.

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Press until normal temperature display returns.



STEP 4 OPTION-ADDING AN EXTRA NIGHTTIME SET POINT

If you have not used all 6 set points in any given day, consider programming a second nighttime set point.

For example, if your regular bedtime is 10:30 p.m., put in a 1:00 a.m. set point that is the same temperature as the 10:30 p.m. set point. The entry of the second set point ensures that even if you stay up past your bedtime and override your program, you won't have to remember to set the thermostat back when you go to bed.

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STEP 5 SET THE FAN SWITCH

FAN AUTO: Normal or energy saving setting for most homes. The fan goes on Auto On and off with the air conditioner in summer. In winter, the fan on most systems starts a few minutes after the furnace comes on. It stops a few minutes after the furnace Fan goes off. The fan starts and stops with the furnace in some electric heat systems.

Auto Fan

to On FAN ON: The fan runs continuously. Use for improved air circulation during **speci** al occasions or for more efficient electronic air cleaning.

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CHANGING YOUR PROGRAM

MAKING PERMANENT PROGRAM CHANGES



Press until display shows PROGRAM.

12:00 program	
АМ	

15

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THE DAY INDICATOR MOVES

60 70 80 90
6:00 PREMOKERANNI AM
SMTWTFS

M1421

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Heat

To erase a program, hold both buttons down until set point indicators disappear.

Press to review programs; notice the day of the week indicator position change as you review the **Fast** programs. When the day and time you want to

change is displayed, release.

cool



MAKING TEMPORARY PROGRAM CHANGES

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The "short term hold" feature lets you custom-tailor the program for those times when someone comes home early, or you're staying up late, or you plan to be out for the evening.

To temporarily raise or lower the temperature for the current period only:

or Heat

,

Press to change the heating or cooling set point (shown with heat setting holding at 62°). This change will stay in effect only until Cool the next scheduled program change.



ROOM TEMPERATURE

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The "long term hold" feature is particularly useful when you go on vacation or other extended absence. It **does** not cancel your program.



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The "HOLD UNTIL" feature holds the temperature range for up to a week, and then cancels it, returning control to your program so your home is at the comfort level you want when you ret urn.

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Press until HOLD UNTIL is displayed.

Use to change heating and cooling set

Heat coo

points as desired (shown with heat setting r-holding at 62°).







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MAINTAINING YOUR THERMOSTAT

REPLACING THE BATTERY

Your thermostat uses a 9 V alkaline battery as backup to hold the program in case of a power outage. For best results, replace battery every 5 years.

To replace:

Open right-hand thermostat door.

Remove battery from battery holder and battery connector.
 Press battery connector onto a fresh 9 V alkaline battery. Place battery in the battery holder as shown.

Close the door.



RECALIBRATING THE THERMOSTAT

Your thermostat should normally display the correct room temperature. In the rare event of an incorrect display, the thermostat can be recalibrated as follows:

Make sure the thermostat has been on for at least 2 hours.
 Place an accurate room thermometer near the left side of the thermostat. Be careful not to touch thermometer or breathe on it.

- Open the left door of the thermostat.
- •I Locate the temperature adjustment screw.

□ Use a flat blade screwdriver to turn the screw slightly clockwise to increase, or counterclockwise to decrease the indicated temperature.



After each turn, allow the thermostat to stabilize about 30 seconds.
 Continue this procedure until the thermostat has the same temperature reading as the room thermometer.

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THE "WAITING" INDICATOR DURING AIR CONDITIONING

To prevent possible damage to your compressor, and to maximize the efficiency of your air conditioning system, no controls can be activated for approximately 6 minutes after the compressor shuts off. If you try to override the temperature during this time, the display will show WAITING until the 6 minutes pass.

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YOUR PERSONAL PROGRAM

Use the table below to plan your schedule before you begin programming. If you are programming a different schedule for each day of the week, fill out-a different table for each day.

		Desired Temperature ^b	
Typical Activity [®]	Your Start Time	Heating	Cooling
Wake up			
Leave home			
Arrive home			
After dinner			
Retire			
Extra Nighttime Set Point (see page 13)			

^aYou may program between 2 and 6 typical activity times.

^bYou may program up to 8 different heating/cooling temperature combinations over the duration of a week.

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TROUBLESHOOTING GUIDE

IF	THEN	
Thermostat loses program.	 Check for loose battery. Check that power switch is C 	DN.
Thermostat shows no display, unless HEAT or COOL key is held.	 □ Check that power switch is C I Check main switches, fuse a on heating equipment to make s has power. The heating control thermostat even when it is contring equipment. □ Check the wiring connections □ Make sure your system uses thermostat will not operate on a □ Jumper RC & Y or RH & W. I thermostat needs replacement. come on, a problem exists in the transformer, relay or valve). 	DN. nd circuit breakers sure the thermostat circuit powers the rolling air condition- s to the thermostat. 5 24 Vat. The millivolt system. f system comes on, If system does not e system (such as
	32	
Troubleshooting Guide continued		
IF	THEN	
Display goes blank less than 30 seconds before or after a furnace burn cycle.	Your furnace is interrupting p thermostat. This is not a probler alkaline battery will be adequate program for the entire heating s use a rechargeable battery.	ower to the n, as the 9 V e to carry the eason. Do NOT
Display goes blank for several minutes during a long furnace burn cycle.	Check for dirty air filters or bl registers are not blocked and th an isolating relay probably need your heating system. See Table manual, form number 69-8025.	ocked registers. If e air filter is clean, ls to be installed on 1 in the installation
Temperature display is incorrect.	•I See "Recalibrating the Thern	nostat," page 29.
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Troubleshooting Guide continued	
IF	THEN
Furnace or air conditioner operates continuously.	 Check the thermostat to see if it is wired properly. Check the furnace and air conditioning systems to make sure they are operating correctly.
Thermostat will not turn heat or air conditioner on.	 I Check circuit breaker on heater or air conditioner to make sure it has power. Check that pilot light/power is on; this thermostat "steals" power from the heating circuit. Verify wiring.
Thermostat will not let you make a temperature setting.	 Check if you have already made 6 settings. A maximum of 6 settings per day are available. The thermostat will not accept a seventh setting. Check if you have used all 8 available temperature combinations. A maximum of 8 heating and cooling combinations are allowed in total in your weekly
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Troubleshooting Guide continued

IF...

Thermostat will not let you make a temperature setting. (continued)

Thermostat is not following your program, but is maintaining a constant temperature.

THEN...

program. The thermostat will not accept a ninth combination.

(Use the programming chart on page 31 to make sure you do not use any more settings or combinations than allowed.).

•I Your program has probably been lost. The thermostat will maintain the factory-set program (68° heat, 78° cool) until you reenter a new program.

IF ADDITIONAL ASSISTANCE IS NEEDED, CALL HONEYWELL CONSUMER AFFAIRS AT 1-800-468-1502, MONDAY-FRIDAY, 7:30 a.m. -4:00 p.m., CENTRAL TIME.

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"See inside front cover.

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RELAY ORDERING INFORMATION

Parl No.	Description	Price Ea.	Shipping/ Handling	Quantity	Total Price
MS100Q	Isolating Relay Kit	\$10	\$3.00		
MS101Q	Isolating Relay & 24 V Transformer Kit	\$20	\$3.00		
			Subtotal		
			Vour least color	tox	
			Tour local sales	lax	
			Total	lax	
Check end Charge to	losed D Money ord my Visa card #	er enclosed	Total	lax	
Check end Charge to exp. date	losed 🛛 🖵 Money ord my Visa card #	er enclosed	Total		
Check end Charge to exp. date - Charge to	losed ☐ Money ord my Visa card # my MasterCard #	er enclosed	Total	ldX	
Check end Charge to exp. date _ Charge to exp. date _	losed ☐ Money ord my Visa card # my MasterCard #	er enclosed	Total		
Check end Charge to exp. date - Charge to exp. date - Charge to	losed ☐ Money ord my Visa card # my MasterCard # my Discover Card #	er enclosed signature	Total		

Address ______ City _____Your daytime phone number. Send ta: State zip

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Toll-free Installation and Programming Assistance

For all questions concerning this thermostat, please read and follow the instructions. If additional assistance is needed, call our toll-free Consumer Affairs group number at 1-800-468-1502, Monday-Friday, 7:30 a.m. -4:00 p.m., Central time.

NOTICE This equipment is a Class B digital apparatus which complies with Canadian Radio Interference Regulations, CRC c.1374.

This thermostat is manufactured under one or more of the following patents; U.S. Patent No 4,172,555; RE32,960; 4,314,665; 4,335,847; 4,356,962. Other Patents Pending.

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LIMITED ONE-YEAR WARRANTY

Honeywell warrants all products fisted in this book to be free from defects in 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, receipt or other dated proof of purchase, to the retailer from whom you purchased it, or
 (ii) package it carefully, along with a bill of sale, receipt or other dated proof of purchase and a short description of the malfunction, and mail it, postage prepaid, to the following address:

Honeywell Inc. Return Goods

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. 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 WARRANN 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 yave from state to state.

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 Consumer Affairs Department, Honeywell Inc. 18S5 Douglas Drive North, Golden Valley, MN 55422-3992, or call 1 -S00-468-1 502, Monday-Friday, 7:30 to 4:00 Central time.

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



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