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P/N T1010



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The thermostat is preprogrammed from the factory to operate one or two stage equipment* without the need for further programming. To optimize the installation of this thermostat, follow the instructions in the Advanced Setup section.

* The thermostat is not preprogrammed from the factory to operate electric heat or heat pump systems. To control these systems, follow the steps in the Advanced Setup section, page 11.

Selecting the Heat or Cool Mode

Select Mode by Pressing the MODE Button

Heating Only

The **HEAT** setting indicates the temperature the room has to reach before the furnace will turn on to heat the room.

Cooling Only

The **COOL** setting indicates the temperature the room has to reach before the air conditioner will turn on to cool the room.

Heating or Cooling

AUTO will automatically select heat or cool based on room temperature demand.

Time Schedule for Heating or Cooling

The Auto (Pr) setting will activate the time period programming for the cooling or heating setpoint ONLY (Morning, Day, Evening & Night Periods). The Auto icon will blink to indicate that the thermostat is in the Program mode.

Off

OFF indicates both heating and air conditioning systems are turned off.





Programming a Daily Schedule



Press the MODE button. While holding MODE, press the UP button for two seconds to enter time period programming.

NOTE: If the thermostat is configured for single setpoint operation, time period program operation will be unavailable.



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Programming a Daily Schedule



Programming a Daily Schedule





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Advanced Setup

Advanced Setup Table

Step #	Description	Range	Factory Default
1	Time of Day	24 hour	12:00 am
2	Display Mode	1/2	2
3	Time Period Program	Off / On	On
4	Heat Pump	Off / On	Off
5	Reversing Valve Polarity	O/b	0
6	Electric Heat	Off / On	Off
7	Deadband/Temp. Swing 1st Stage	1°- 6°	2°
8	Minimum Heat/Cool Differential	0°- 6°	2°
9	Cycles Per Hour	d, d1, 2 - 6	6
10	Thermoglow Backlight	Off / On	On
11	Fahrenheit or Celsius	F/C	F

CALIBRATION - Under normal circumstances it will not be necessary to adjust the calibration of the temperature. If calibration is required, please contact a trained HVAC technician to correctly perform the following procedure.



DEADBAND OPERATION - Controls up to two Heat and two Cool stages (please see the diagram on the next page).

The 1st Stage of heat or cool is turned on when:

- (A) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #7, page 11). This 1st stage deadband is adjustable from 1-6 degrees and the default is two degrees.
- The **2nd Stage** of heat or cool is turned on when:
- (A) The 1st Stage has been on for a minimum of *two minutes*.
- And
 - (B) The temperature spread from the setpoint is equal to or greater than: the setpoint plus the 1st stage deadband (step #7, page 11), plus the 2nd stage deadband. This 2nd stage deadband is fixed at two degrees and is not adjustable.



The above figure assumes the minimum on time for the prior stage has been met to allow the next stage to turn on, once the deadbands have been exceeded.

- ELECTRIC HEAT Selecting Electric Heat (step #6, page 11), will cause the thermostat to turn on the fan immediately any time there is a heat demand. Since most gas furnaces control the fan, this feature should be off unless it is necessary for the thermostat to energize the fan with first stage heat.
- EMERGENCY HEAT Only available if you have a Heat Pump installed. To initiate the Emergency Heat feature, press the FAN button. While holding the FAN button press the UP button. The Cool setpoint display will read 'EH' (emergency heat).



- Operation During Emergency Heat operation the thermostat will turn on the fan and the 2nd stage of heat when there is a demand for heat. Also during Emergency Heat, the 1st stage of heating or cooling will be unavailable.
- Exit Emergency Heat Follow the same steps as entering Emergency Heat by pressing the FAN and UP buttons. During Emergency Heat, only OFF and HEAT modes are available by pressing the MODE button.

FACTORY DEFAULTS - If, for any reason, you desire to return all the stored settings back to the factory default settings, follow the instructions below.

WARNING: This will reset all Time Period and Advanced Programming to the default settings. Any information entered prior to this reset will be permanently lost.



HEAT/COOL DIFFERENTIAL - The Heat and Cool setpoints will not be allowed to come any closer to each other than the value set in Advanced Setup step #8, on page 12. This minimum difference is enforced during Auto changeover and Program On operation.

Note: To increase the spread between the heating and cooling setpoints, press the MODE button until only the heat setpoint is displayed; adjust to the desired setpoint. Press the MODE button until only the cool setpoint is displayed; adjust to the desired setpoint. Press the MODE button again to enter the Auto changeover mode where both the heat and cool setpoints are displayed.

- MEMORY BACKUP In the event of a power loss, the thermostat will retain the stored program settings without external power or batteries.
- SINGLE SETPOINT BEHAVIOR When configured as a Single Setpoint thermostat, page 10, step #2, the large number is the setpoint. In Auto mode the deadband is above and below the setpoint. To avoid short cycling in single setpoint it is recommended that the deadband be set for at least 2 degrees, page 11, step #7.

KEYPAD LOCKOUT - To prevent unauthorized use of the thermostat, the front panel buttons may be disabled. To disable, or 'lock' the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together.



To unlock the keypad, press and hold the MODE button. While holding the MODE button, press the UP and DOWN buttons together.

Note: No icon will appear indicating that the keypad has been locked or unlocked.

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Warranty

One-Year Warranty - This Product is warranted to be free from defects in material and workmanship. If it appears within one year from the date of original installation, whether or not actual use begins on that date, that the product does not meet this warranty, a new or remanufactured part, at the manufacturer's sole option to replace any defective part, will be provided without charge for the part itself provided the defective part is returned to the distributor through a qualified servicing dealer.

THIS WARRANTY DOES NOT INCLUDE LABOR OR OTHER COSTS incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts or replacement parts. Such costs may be covered by a separate warranty provided by the installer.

THIS WARRANTY APPLIES ONLY TO PRODUCTS IN THEIR ORIGINAL INSTALLATION LOCATION AND BECOMES VOID UPON REINSTALLATION.

LIMITATIONS OF WARRANTIES – ALL IMPLIED WARRANTIES (INCLUDING IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY) ARE HEREBY LIMITED IN DURATION TO THE PERIOD FOR WHICH THE LIMITED WARRANTY IS GIVEN. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE MAY NOT APPLY TO YOU. THE EXPRESSED WARRANTIES MADE IN THIS WARRANTY ARE EXCLUSIVE AND MAY NOT BE ALTERED, ENLARGED, OR CHANGED BY ANY DISTRIBUTOR, DEALER, OR OTHER PERSON WHATSOEVER. ALL WORK UNDER THE TERMS OF THIS WARRANTY SHALL BE PERFORMED DURING NORMAL WORKING HOURS. ALL REPLACEMENT PARTS, WHETHER NEW OR REMANUFACTURED, ASSUME AS THEIR WARRANTY PERIOD ONLY THE REMAINING TIME PERIOD OF THIS WARRANTY.

THE MANUFACTURER WILL NOT BE RESPONSIBLE FOR:

- Normal maintenance as outlined in the installation and servicing instructions or owner's manual, including filter cleaning and/or replacement and lubrication.
- 2. Damage or repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
- Failure to start due to voltage conditions, blown fuses, open circuit breakers or other damages due to the inadequacy or interruption of electrical service.
- Damage as a result of floods, winds, fires, lightning, accidents, corrosive environments or other conditions beyond the control of the Manufacturer.
- 5. Parts not supplied or designated by the Manufacturer, or damages resulting from their use.
- Manufacturer products installed outside the continental U.S.A., Alaska, Hawaii, and Canada.
- 7. Electricity or fuel costs or increases in electricity or fuel costs for any reason whatsoever including additional or unusual use of supplemental electric heat.
- ANY SPECIAL INDIRECT OR CONSEQUENTIAL PROPERTY OR COMMERCIAL DAMAGE OF ANY NATURE WHATSOEVER. Some states do not allow the exclusion of incidental or consequential damages, so the above may not apply to you.

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

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