

6. The next function is the electric heat strip. (If applicable, heat pumps and air conditioners without electric heat strips will not have this selection.)

Important: The “**STRIP**” is showing to indicate that the equipment of choice is the Heat Strip. The flame will blink to show Heat Strip is operating. The air conditioner in **AUTO** setting will run on **LOW** speed only. The choice of fan speed can be selected to operate at either “**HIGH**” or “**LOW**” in manual setting.

7. The last mode setting is the heat pump. It will show “**HP**” on the display to indicate that it is the equipment of choice. (If Applicable, must be a heat pump unit before this feature can work.).

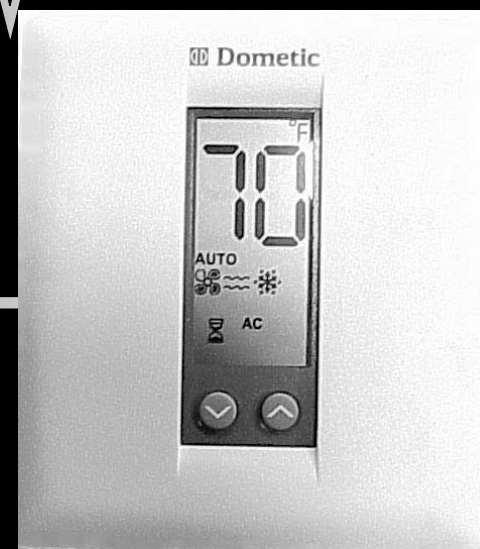
Important: During heat pump operation the flame will blink to show operation. In the “**AUTO**” fan setting the heat pump will choose between “**HI**” or “**LO**” depending on the thermostat set point and the room temperature. If the temperature is 3° or less than the room temperature, the fan speed will be low. If the room temperature is greater than 3° above the thermostat set point the fan will operate at high speed. The heat pump is designed to start a defrost cycle at a temperature range of between 30° and 42°. The defrost cycle will start after 25 minutes of heat pump operation and last for 4-1/2 minutes. The word “**DEFROST**” will appear on the thermostat. In the defrost cycle the fan will stop regardless of the fan operation selected. The heat pump will reverse cycle for 4-1/2 minutes to defrost the outside coil. Once this cycle starts it must finish the cycle. Should the outdoor temperature go below 30° the heat pump will go into a delay (hour glass will show) and the furnace will start operation. If the outdoor temperature rises above 35° the heat pump will resume normal operation.

E. SPECIAL FEATURES

1. Compressor time delay: Compressor will delay starting if turned off and immediately back on with a 2-1/2 minute delay, preventing the starting of the compressor under a full load. This delay will also take place if the power is interrupted for any reason.
2. Manual fan operation during furnace heat stage. See paragraph 5.
3. Error Codes
 - E1 = Open Room Sensor
 - E2 = Shorted Room Sensor
 - E3 = Outdoor Ambient Sensor Failure
 - E4 = Freeze Control Failure
 - E5 = Loss Of Communication With Remote Circuit Board
 - E6 = Loss of 120 VAC

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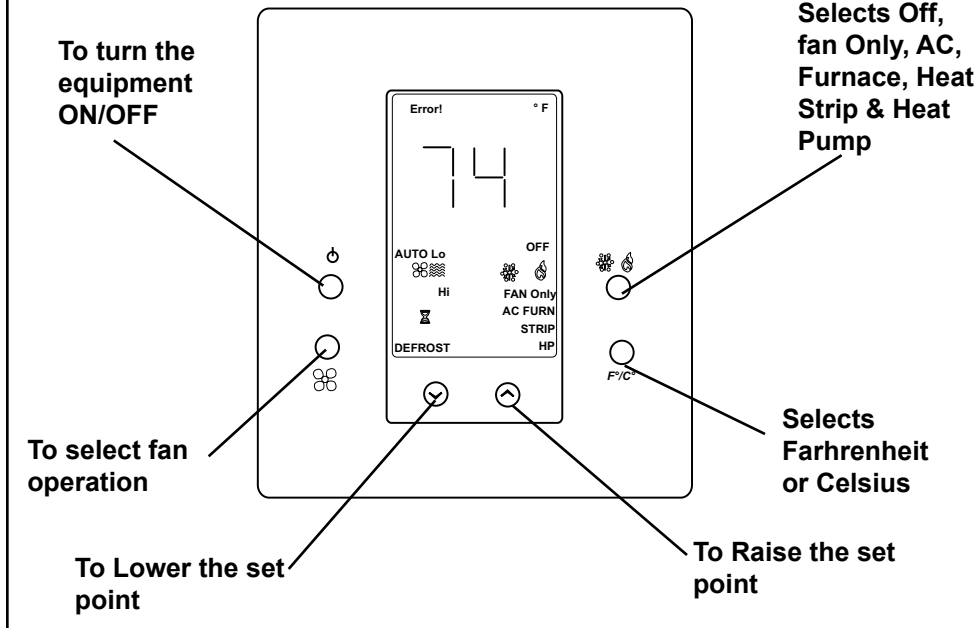
DIGITAL THERMOSTAT



USER'S GUIDE

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Figure 1



A. GENERAL INFORMATION

The digital communicating thermostat is equipped with advanced features that improve comfort and reliability. The display is constantly updated with the desired set point and equipment status, the six buttons (under the front thermostat cover) provide complete control of the equipment.

Note: 120 VAC is required to operate in all modes but furnace.

B. Thermostat Features:

1. Six Buttons
 - a. ON/OFF
 - b. FAN
 - c. DOWN
 - d. UP
 - e. MODE
 - f. F/C

See Figure 1.

C. Button Functions

1. ON/OFF: Button is used to power **ON** or **OFF**.
2. FAN: Button selects three fan modes:
 - a. AUTO (cycle between **HIGH & LOW**)
 - b. LOW (Selects continuous **LOW** fan operation.)
 - c. HIGH (Selects continuous **HIGH** fan operation.)

3. UP: Button raises thermostat set point temperature.
4. DOWN: Button lowers thermostat set point temperature.
5. MODE: Selects 6 different operations
 - a. OFF
 - b. FAN ONLY
 - c. Air Conditioner (AC)
 - d. Furnace (FURN)
 - e. Electric Heat Strip (STRIP)(If applicable)
 - f. Heat Pump (HP)(If applicable)
6. F/C: Selects Fahrenheit/Celsius

D. OPERATION:

1. The **"ON/OFF"** button is used to power up or down the heating/cooling equipment. When the button is **"OFF"** the display will be blank. Push the **"ON/OFF"** button once and the display will show the last mode of operation, and the equipment will operate at its last setting.

Important: Each change in setting will require a 5 second delay before it is effective.

2. If the display shows **"OFF"**, this indicates that the thermostat is receiving the correct power and is ready to operate.
3. The next touch of the mode button will switch the display to **"FAN ONLY"**. Pressing the **"FAN Button"** will select the fan operation **"AUTO"**, **"HI"** or **"LO"**.

Important: In the **"AUTO"** mode there is no fan operation until the thermostat calls for the air conditioner, (heat pump or heat strip if applicable). In the **"LO"** and **"HI"** setting the fan operation is shown with a blinking fan blade.

4. The next touch of the mode button will switch the display to air conditioning.

Important: The **"AC"** is showing to indicate the air conditioner is the system of choice. The fan blade and snow flake blink to show operation.

5. The next touch of the mode button will switch the operation into the furnace mode.

Important: If 120 VAC is present, in the **"AUTO"** setting the fan has no operation; but, switch the fan to **"HI"** or **"LO"** setting and it will operate with the furnace blower. In the **"AUTO"** fan setting the air conditioner will choose between **"HI"** or **"LO"** depending on the thermostat set point and the room temperature. If the temperature is 3° or less than the room temperature, the fan speed will be low. If the room temperature is greater than 3° above the thermostat set point the fan will operate at high speed. The Flame will blink to show the furnace is operating.