**Programmable Electronic Thermostat**

**2 Heat/1 Cool, 7-Day Programmable, Auto Changeover, Hardwired**

Daikin P/N (910121748)

- 7-Day, 5-2-1 or 5-2-1-2-Day Programmable
- **2-Stage Heat/2-Stage Cool System**
- Large Display With Backlight
- Selectable Fahrenheit or Celsius
- Status Indicator Light
- **Delay Outputs** (minimum delay drop in thermostat)
- Remote Sensor Compatible

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**Installation, Operation & Application Guide**

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**Parts Diagram**

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**Icon Descriptions**

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**Specifications**

- **Electrical Rating**
  - 20 VDC (19.80-20.20 VAC)
  - 1 amp maximum per terminal
  - 1 amp maximum total
- **Temperature Range control**
  - 30°F to 90°F (−1°C to 32°C)
  - **Accuracy** ± 1°F (±0.5°C)
- **System Configuration**
  - 2-mode (Heat/cool), 2-stage (heat pump)
  - Manual change over (from heat to cool or cool to heat)
- **Display**
  - Backlight display: 10 segments

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**Important Safety Information**

**WARNING:**Always turn off all the main power supply before installing, cleaning or removing thermostat.

**1.** Remove any existing wiring.

**2.** Secure all wiring and connect to electrical and building codes.

**3.** Do not connect until the wiring is complete.

**4.** Use the wiring instructions as described in this manual.

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**Package Contents/Tools Required**

- **Package Includes:** 910121748 (Thermostat Main Control Board), 910135258 (Thermostat Cover), 910116772 (Remote Indoor Sensor), 910116773 (Remote Indoor Sensor Unit), 910121747 (Manual Installation Guide)

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**Operation**

**1.** Turn off power to heating and cooling system by removing the fuse or switching the appropriate circuit breaker.

**2.** To remove cover, pull gently at the seam at the top.

**3.** Mount remote sensor unit using hardware provided.

**4.** Press the DOWN button to advance to the next screen.

**5.** Configure the thermostat to operate with the remote sensor (see Configuration Mode setting 9).

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**Configuration Mode**

**Configuration Mode Settings**

- **1.** Temperature Scale (F or C)
  - Select the desired temperature scale.
  - Press the up or down button to select.
  - Press the left button to exit the next screen.

**2.** 1° Stage Temperature (Down) (75°F to 90°F)
  - Select the degree of temperature change between each stage.
  - Press the up or down button to select.
  - Press the left button to exit the next screen.

**3.** 2° Stage Temperature (Down) (75°F to 90°F)
  - Select the degree of temperature change between the second stage (75°F to 90°F) and the first stage.
  - Press the up or down button to select.
  - Press the left button to exit the next screen.

**4.** Staged Off Outputs
  - Select whether the outputs for heating and cooling can be staggered independently or not.
  - Press the up or down button to select.
  - Press the left button to exit the next screen.

**5.** Minimum Differential (Down)
  - Select the minimum differential found in the heating and cooling circuits.
  - Press the up or down button to select.
  - Press the left button to exit the next screen.

**6.** Maximum Heat Setpoint (Down)
  - Select the maximum heat setpoint found in the heating and cooling circuits.
  - Press the up or down button to select.
  - Press the left button to exit the next screen.

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**Mode of Operation**

- **910121748** is a programmable, radio or auto changeover, 2 stage heat, 2 stage cooling thermostat. An outdoor sensor can be used for the outdoor temperature.

The thermostat utilizes the called set temperature when the outdoor temperature is above the set heat temperature (by the differential temperature). This process is repeated until the outdoor temperature is equal to the set heat temperature (by the differential temperature). The thermostat then starts cooling, which will stop when the outdoor temperature is below the set cool temperature (by the differential temperature). The thermostat then starts cooling, which will stop when the outdoor temperature is below the set cool temperature (by the differential temperature).

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**Button Functions**

- **UP** – Used to increase the set, time and sunday and to adjust configuration settings.
- **DOWN** – Used to decrease the time, set, sunday and to adjust configuration settings.
- **SYS (left)** – Used to change from OFF, HEAT, COOL and AUTO operation.
- **FAN (right)** – Used to turn on and off the indoor fan.
- **PROG (SYS and FAN)** – Used to change the program operation to speed or manual operation.
- **DOWN and SYS** – Press to display current outdoor temperature if remote sensor is active.
- **UP and DOWN** – Used to override night setback or reset the unit.
Operating Modes

There are five possible operating modes for the 110/120 VAC heat, cool, and heat pump models. These are determined by pressing the SYS (left) and FAN (right) buttons simultaneously.

OFF Mode

In the OFF mode, the thermostat will not turn on the heating or cooling systems. The displays will not show any activity.

Heat Mode

Press the FAN (right) button to enter the heat mode. Press the SYS (left) button to exit the heat mode.

Cool Mode

Press the FAN (right) button to enter the cool mode. Press the SYS (left) button to exit the cool mode.

FAN Mode

Press the FAN (right) button to enter the FAN mode. Press the SYS (left) button to exit the FAN mode.

Cool and Heat Mode

Press the FAN (right) button to enter the Cool and Heat Mode. Press the SYS (left) button to exit the Cool and Heat Mode.

Setting the Time and Day of the Week

The time and day of the week are set in the programming phase. To set the time and day:

1. Press the SYS (left) button, then press the FAN (right) button.
2. Press the up (right) button to select the time displayed (hour flashing). Press the up (right) button to advance the hour.
3. Press the down (left) button to select the day.
4. Press the up (right) button to select the next day of the week (TODAY blinking). Press the down (left) button to select the current day of the week.
5. Press the FAN (right) button to exit the time display.

Testing the Thermostat

Once the thermostat is configured, it should be thoroughly tested.

Test Heat

1. Press and hold the FAN (right) button for 3 seconds.
2. The fan icon will be displayed.
3. The indoor fan turns on.
4. Press the FAN (right) button once to select the cooling mode of the fan (COOL).
5. The indoor fan turns off.

Test Cool

1. Press and hold the FAN (right) button for 3 seconds.
2. The fan icon will be displayed.
3. The indoor fan turns on.
4. Press the FAN (right) button once to select the heating mode of the fan (HEAT).
5. The indoor fan turns off.

Programming

The thermostat offers four different operating modes: Cool, Heat, Heat/Cool, and FAN. These modes can be programmed using the programming interface.

Heat Mode

1. Press and hold the FAN (right) button for 3 seconds.
2. The thermostat displays the time and day of the week.
3. Press the up (right) button to enter the Heat mode.
4. Press the FAN (right) button to exit the Heat mode.

Cool Mode

1. Press and hold the FAN (right) button for 3 seconds.
2. The thermostat displays the time and day of the week.
3. Press the up (right) button to enter the Cool mode.
4. Press the FAN (right) button to exit the Cool mode.

FAN Mode

1. Press and hold the FAN (right) button for 3 seconds.
2. The thermostat displays the time and day of the week.
3. Press the up (right) button to enter the FAN mode.
4. Press the FAN (right) button to exit the FAN mode.

Cool and Heat Mode

1. Press and hold the FAN (right) button for 3 seconds.
2. The thermostat displays the time and day of the week.
3. Press the up (right) button to enter the Cool and Heat mode.
4. Press the FAN (right) button to exit the Cool and Heat mode.

Troubleshooting

Symptom

FAN blinks.

Problem

Check for a bad connection at the terminal block or if used, verify that S1 and S2 terminal connections are made.

Solution

Check for a bad connection at S1 and S2 terminals if used.

Fan runs continuously

Check for a bad connection at the terminal block.

Solution

Check for a bad connection at the terminal block.

Heat or cool not coming on

Check for a bad connection at the terminal block.

Solution

Check for a bad connection at the terminal block.

Room temperature is not correct

Calibrate the thermostat (see Configuration Mode Setting 8).

Solution

Calibrate the thermostat (see Configuration Mode Setting 8).

Symptom

Fan runs continuously

Problem

Fan runs continuously when the thermostat is set to the heat or cool mode.

Solution

Check for a bad connection at the terminal block.

Symptom

Room temperature is not correct

Problem

Room temperature is not correct when the thermostat is set to the heat or cool mode.

Solution

Calibrate the thermostat (see Configuration Mode Setting 8).

Symptom

Heat or cool not coming on

Problem

Heat or cool not coming on when the thermostat is set to the heat or cool mode.

Solution

Check for a bad connection at the terminal block.

Symptom

FAN blinks.

Problem

FAN blinks when the thermostat is set to the fan mode.

Solution

Check for a bad connection at the terminal block.

Symptom

Fan runs continuously

Problem

Fan runs continuously when the thermostat is set to the fan mode.

Solution

Check for a bad connection at the terminal block.

Symptom

Room temperature is not correct

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Room temperature is not correct when the thermostat is set to the fan mode.

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