**Non-Programmable Electronic Thermostat**

2 Heat/2 Cool, Auto Changeover, Hardwired

daiKIN P/N (910121746)

- Configurable
- 2-Stage Heat/2-Stage Cool Systems
- Large Display With Backlight
- Selectable Fahrenheit or Celsius
- Status Indicator Light
- Relay Outputs (minimum voltage drop in thermostat)
- Remote Sensor Compatible

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**Installation, Operation & Application Guide**

**Parts Diagram**

- Drill with 3/16" bit, hammer, screwdriver
- Wiring Diagrams

**Package Contents/Tools Required**

- 910121746 thermostat on base, thermostat cover, wiring labels, screws and wall anchors, installation, Operation and Application Guide
- Tools required for Installation: Drill with 3/16" bit, hammer, screwdriver

**Specifications**

- Electrical rating: 24 VAC (18-30 VAC)
- 1 amp maximum per terminal
- 3 amp maximum total load
- Temperature control range: 50°F to 90°F (15°C to 32°C)
- Accuracy: ± 1°F (± 0.5°C)
- System configurations: 2-stage heat, 2-stage cool
- Timing: Anti-short Cycle: 4 minutes (bypass anti-short cycle delay by returning to OFF mode for 5 seconds)
- Backlight Operation: 10 seconds
- Termination: A, L, S1, S2, R, C, W1, Y1, Y2, G, O

**Important Safety Information**

**WARNING!** Always turn off power at the main service panel before installing, cleaning, or removing thermostat.
- This thermostat is for 24 VAC applications only; do not use on voltages over 30 VAC
- All wiring must conform to local and national electrical and building codes
- Do not use air conditioning when the outdoor temperature is below 50 degrees; this can damage your A/C system and cause personal injuries
- Use this thermostat only as described in this manual

**Remote Sensor Installation (Optional)**

To Install Thermostat:

1. Remove cover from remote sensor housing.
2. Install two strand shielded wire between remote sensor and thermostat. Shielded wire is recommended.
3. Mount remote sensor unit using hardware provided.
4. Install sensor.
5. Configure the thermostat to operate with the remote sensor (see Configuration Mode setting 9).
6. Align thermostat base with mounting holes and feed the control wires through slit in thermal intrusion barrier and into wiring opening.
7. Use supplied screws to mount thermostat base to wall.
8. Insert stripped, labeled wires in matching wire terminals.
9. Use supplied screws to mount thermostat base to wall.

**Configuration Mode**

The configuration mode is used to set the 910121746 to match your heating/cooling system. To configure the 910121746, perform the following steps:

1. Press the SYS (left) button until off mode displays.
2. Press the CONFIG button for 1 second while the 910121746 is in OFF mode.
3. Press the CONFIG button for 1 second while the 910121746 is in OFF mode.
4. Press the up or down button to change settings within each screen.
5. Press the right button to advance to the next screen.

**Note:** Pressing the left button will return you to the previous screen.

**Terminal Designator Descriptions**

<table>
<thead>
<tr>
<th>R = 24 VAC hot</th>
<th>W1 = 1st stage heat</th>
<th>W2 = 2nd stage heat</th>
<th>G = Fan</th>
<th>L = Status input</th>
<th>C = 24 VAC common</th>
<th>Y1 = 1st stage cool</th>
<th>Y2 = 2nd stage cool</th>
<th>A = Alarm input</th>
<th>O = Override/reset</th>
</tr>
</thead>
</table>

**ELECTRICAL SHOCK HAZARD** - Turn off power at the main service panel by removing the fuse or switching the appropriate circuit breaker to the OFF position before removing the existing thermostat.

**Important:** Thermostat installation must conform to local and national building and electrical codes and ordinances.

**Note:** Mount the thermostat about five feet above the floor. Do not mount the thermostat on an outside wall, in direct sunlight, behind a door, or in an area affected by a vent or duct.

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To Install Thermostat:

1. Turn off power to the heating and cooling system by removing the fuse or switching the appropriate circuit breaker off.
2. Remove cover.
3. Pull thermostat base against the wall where you plan to mount it (be sure wires will feed through the wire opening in the base of the thermostat).
4. Mark the placement of the mounting holes.
5. Set thermostat base and cover away from working area.
6. Using a 3/16" drill bit, drill holes in the places you have marked for mounting.
7. Use a hammer to tap supplied anchors in mounting holes.

**Remote Sensor Installation (Optional)**

To Install Thermostat:

1. Remove cover from remote sensor housing.
2. Install two strand shielded wire between remote sensor and thermostat. Shielded wire is recommended.
3. Mount remote sensor unit using hardware provided.
4. Install sensor.
5. Configure the thermostat to operate with the remote sensor (see Configuration Mode setting 9).
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To exit configuration mode, press the CONFIG switch for 1 second.
### Configuration Mode Settings

The setup screens for Configuration Mode are as follows:

1. **Temperature Scale** (F or C)  
   - Choose Fahrenheit or Celsius.  
   - Press the up or down button to select.  
   - Press the right button to advance to the next screen.

### Operating Modes

There are five possible operating modes for the 910121746. Off, Cool, Heat, and Cool & Heat modes are accessed by pressing the SYS (left) button. Program mode is accessed by pressing the SYS (left) and FAN (right) buttons simultaneously.

#### OFF Mode
- **Note:** The thermostat will not turn on the heating or cooling devices.

#### Heat Mode
- In this mode, the thermostat controls the heating system. When the heat outputs, the flame icon appears on the display.

#### Cool Mode
- In this mode, the thermostat controls the cooling system. When the cooling outputs, the snowflake icon appears on the display.

#### Cool and Heat Mode (Auto Changeover)
- In this mode, the thermostat controls the cooling and heating systems, automatically changing over from one to the other as needed.
- The timing display alternates with the set temperature every 10 seconds in the cool and heat mode.

### Testing the Thermostat

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

**CAUTION:** Do not energize the air conditioning system when the outdoor temperature is below 50 degrees. It can result in equipment damage or personal injury.

#### Heat Test
1. Press SYS (left) button until heat mode is displayed.  
2. Adjust the set temperature so it is 5 degrees above the room temperature.  
3. Heat should come on within a few seconds.  
4. Adjust the set temperature 2 degrees below the room temperature and the heat should turn off. This may be a fan delay on your system.

#### Cool Test
1. Press SYS (left) button until cool mode is displayed.  
2. Adjust set temperature so it is 5 degrees below room temperature.  
3. A/C should come on within a few seconds.  
4. Adjust the set temperature 2 degrees above the room temperature and the A/C should turn off. There may be a fan delay on your system.

#### Fan Test
1. Press FAN (right) button. Fan displays. Indoor fan turns ON.  
2. Press FAN (right) button. Indoor fan turns OFF.

### Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No display</td>
<td>Check for 24 VAC at thermostat; display is blank when 24 VAC is not present.</td>
</tr>
<tr>
<td>All thermostat buttons are inoperative</td>
<td>Verify 24 VAC is present; unit locks out when 24 VAC is not present.</td>
</tr>
<tr>
<td>No response with field button press</td>
<td>First button press activates backlight only.</td>
</tr>
<tr>
<td>Thermostat turns on and off too frequently</td>
<td>Adjust thermostat sensitivity (see Configuration Mode Setting 2 &amp; 3).</td>
</tr>
<tr>
<td>Fan runs continuously</td>
<td>Press FAN (right) button to turn fan off.</td>
</tr>
<tr>
<td>Status indicator lights</td>
<td>WSDP value blank code.</td>
</tr>
<tr>
<td>Room temperature is not correct</td>
<td>Calibrate thermostat (see Configuration Mode Setting 8).</td>
</tr>
<tr>
<td>A/C on display instead of room temperature</td>
<td>Check for a bad connection at S1 and S2 terminals. Use (see Configuration Mode Setting 9).</td>
</tr>
<tr>
<td>Heat or Cool not coming on</td>
<td>Verify wiring is correct; gently pull on each wire to verify there is a good connection at terminal block.</td>
</tr>
<tr>
<td>Alarm light on</td>
<td>Unit in alarm/lockout condition.</td>
</tr>
<tr>
<td>No display</td>
<td>Press Reset button once.</td>
</tr>
</tbody>
</table>

### Mode of Operation

The 910121746 is a non-programmable, manual, or auto changeover, 2-stage heat, 2-stage cool thermostat. An outdoor sensor can be used to monitor the outdoor temperature.

The thermostat activates the heating appliance when the room temperature is below the set heat temperature (by the differential temperature). The 910121746 will stop outputting when the call for heat has been satisfied.

When the room temperature is greater than the set cool temperature (by the differential temperature), the cooling device is activated. The 910121746 will stop outputting when the call for cooling has been satisfied.

The 910121746 has four possible operating modes: OFF, Heat, Cool and Heat & Cool mode. In off mode, the thermostat will not turn on the heating or cooling devices. The manual fan can be turned on in all operating modes using the fan button. In heat mode, the thermostat controls the heating system. In cool mode, the thermostat controls the cooling system. In heat & cool mode, the thermostat controls both the heating and cooling systems.

Pressing the UP and DOWN buttons simultaneously for 3 seconds then releasing them causes the thermostat to output from the “O” terminal for 5 seconds. “*” will show on the display. This will result in the unit going into a night set-back override.

Pressing the UP and DOWN buttons simultaneously for 5 seconds causes the thermostat to output to the “O” terminal for 10 seconds. “*” will show on the display. This will result in the unit being reset.

### Button Functions

| **UP** | Used to increase the time, set temperatures and to adjust configuration settings. |
| **DOWN** | Used to decrease the time, set temperatures and to adjust configuration settings. |
| **SYS (left)** | Used to change from OFF, HEAT, COOL and AUTO changeover modes. |
| **FAN (right)** | Used to turn on and off the indoor fan. |
| **UP and DOWN** | Used to override right set back or reset the unit. |

### Daikin Training and Development

Now that you have made an investment in modern, efficient Daikin equipment, its care should be a high priority. For training information on all Daikin HVAC products, please visit us at www.DaikinApplied.com and click on Training, or call 540-248-9646 and ask for the Training Department.

### Warranty

All Daikin equipment is sold pursuant to its standard terms and conditions of sale, including Limited Product Warranty. Consult your local Daikin Representative for warranty details. Refer to Form 933-432085Y. To find your local Daikin Representative, go to www.DaikinApplied.com.

### Aftermarket Services

To find your local parts office, visit www.DaikinApplied.com or call 800-379PARTS (800-377-2787). To find your local dealer, visit www.DaikinApplied.com or call 800-432-1342. This document contains the most current product information as of this printing. For the most up-to-date product information, please go to www.DaikinApplied.com.

Products manufactured in an ISO certified facility.