This manual covers the following models:
- T955WH Master Thermostat
- Base Module

**Thermostat Applications Guide**

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* If using remote sensors the thermostat must be hardwired.

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**Need Help?**

For assistance with this product please visit http://www.pro1iaq.com or call Pro1 Customer Care toll-free at 888-Pro1iaq (776-1427) during normal business hours (Mon-Fri 9 AM - 6 PM Eastern)

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Rev. 1011
Getting to know your thermostat

**Important:**
The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the thermostat display will only show the low battery indicator as a final warning before the thermostat becomes inoperable. The batteries are located on the back of the thermostat.

**Program Menu Options:**
Shows different options during programming.

**Wireless Icon**
System Information:
Shows which zone or zones are controlling your system. Shown only when one or more indoor sensors R251W are connected.

**Glow in the Dark Light Button**
*NOTE ABOUT THE LIGHT BUTTON:*
This button is used to light up the display, but it is also used to set up communication with the base module. **DO NOT** hold the light button down for more than 10 seconds, unless you are performing the initial communication setup steps.

**Fan Button**

**System Button**

**Temperature Setpoint Buttons**

**Menu Button**

**Humidity Button**

**Low Battery Indicator:**
Replace batteries when this indicator is shown.

**Program Menu Options:**
Shows different options during programming.

**Remote**
Indicates a remote has control of the system.

**Hold**
Is displayed when thermostat program is permanently overridden.

**System Information:**
Shows which zone or zones are controlling your system. Shown only when one or more indoor sensors R251W are connected.

**Clean Display:**
Pressing CLEAN DISPLAY will allow 30 seconds to clean the display. The keys will be inoperable during this time. CLEAN will appear if your contractor has programmed a filter change reminder. Press CLEAN when filter has been replaced to reset the filter change reminder timer.

**NOTE ABOUT THE LIGHT BUTTON:**
This button is used to light up the display, but it is also used to set up communication with the base module. **DO NOT** hold the light button down for more than 10 seconds, unless you are performing the initial communication setup steps.

**Removing the private label badge**

**PRO1 Tip**

All Pro1 thermostats use the same universal magnetic badge. Visit our website at www.pro1iaq.com to learn more about our free private label program.
The thermostat should be installed approximately 4 to 5 feet above the floor. Select an area with average temperature and good air circulation.

Do not install thermostat in locations:
- Close to hot or cold air ducts
- That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where there might be concealed chimneys or pipes
- Where appliances could radiate heat

**PRO1 Tip**

Pick an installation location that is easy for the user to access. The temperature of the location should be representative of the building.
INSTALLATION TIPS

Base Module - Basement Installation

Wireless Range

Range between the T955WH and the base module is up to 100 feet with no obstructions and up to 50 feet in standard residential metal, brick, and concrete construction. To extend the range try placing the base unit higher if in a basement or further away from large metal objects.

ATTIC INSTALLATION ON THE NEXT PAGE

PRO1 Tip

Do not install the base module in locations:
- That are behind a chimney
- Where temperature could exceed 150°F
- Where rain or snow or extreme hot or cold is possible

NOTE: The base module is NOT weatherproof.
When performing an attic installation, instead of placing the base module in the attic, locate the closet nearest to the air conditioning unit. Then mount the base module high on the wall inside the closet or on the ceiling of the closet. This location will insure the base module is below the 150°F maximum ambient temperature specification.

**PRO1 Tip**

Do not install the base module in locations:

- That are behind a chimney
- Where temperature could exceed 150°F
- Where rain or snow or extreme hot or cold is possible

**NOTE:** The base module is NOT weatherproof.
Caution: Electrical Hazard
Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.

Mercury Notice:
All of Pro1’s products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

For vertical mount put one screw top and one screw bottom.

For horizontal mount put one screw left and one screw right.

NOTE:
To insure a solid fit between the thermostat and the subbase, mount the subbase on a flat wall with the drywall anchors flush to the wall. Using the screws and drywall anchors that were provided with the thermostat.

Note:
The T955WH can be battery powered only if used as a stand-alone thermostat solution. The T955WH must be hardwired (C and R terminals connected to 24V power) if remote sensors (R251W or R250W) are used.
**Wiring Note:**
Wire the base module’s subbase the same way you would wire a hardwired thermostat subbase.

**Note:**
To connect the base module to master thermostat, refer to the directions on page 9 of this manual.

For vertical mount put one screw top and one screw bottom.

For horizontal mount put one screw left and one screw right.

**Note:**
The base module must be hardwired (C and R terminals connected to 24V power).
Wiring

1. If you are replacing a thermostat, make note of the terminal connections on the thermostat that is being replaced. In some cases the wiring connections will not be color coded. For example, the green wire may not be connected to the G terminal.

2. Loosen the terminal block screws. Insert wires then retighten terminal block screws.

Terminal Designations on Base Module

This thermostat is shipped from the factory to operate a conventional heating and cooling system. This thermostat will also operate a heat pump system. See the “heat pump” configuration step on page 12 of this manual to configure the thermostat for heat pump applications.

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</thead>
<tbody>
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<td>Transformer power (cooling)</td>
<td>Transformer power (cooling)</td>
<td>Transformer power (cooling)</td>
</tr>
<tr>
<td>RH</td>
<td>Transformer power (heating)</td>
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</tr>
<tr>
<td>C</td>
<td>Transformer common</td>
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<td>Transformer common</td>
</tr>
<tr>
<td>B</td>
<td>Energized in heating</td>
<td>Heat pump changeover valve energized in heating</td>
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Terminal Designations on T955WH Master Thermostat

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>R</td>
<td>24 VAC Transformer power</td>
<td>24 VAC Transformer power</td>
<td>24 VAC Transformer power</td>
</tr>
<tr>
<td>C</td>
<td>Transformer common</td>
<td>Transformer common</td>
<td>Transformer common</td>
</tr>
</tbody>
</table>

Powering the T955WH Master Thermostat

If you add remote sensors (R250W or R251W) to this wireless system you must hardwire the T955W master thermostat.
Establishing Communication between T955W Master Thermostat and the Base Module

Easy, Two Step Communication Link

To set up the initial link between the Master Thermostat and the base module please follow the steps below:

1. Press and hold the base module button for 3 seconds. The Blue LED will flash when ready to receive initial signal from T955WH. (Base module must be powered by 24V. Blue LED will be continuously on when 24V power is present.)

2. Hold the Light key (shown here) of the T955WH for 10 seconds, the Blue LED on the base module will stop flashing after communication has been established between base module and the T955WH.

Note:
The Blue LED on the base module will be on when power is present. The Blue LED will flash 3 times every time it receives a signal from T955WH. When a relay is on the corresponding LED relay indicator will be on.

Note:
If the base module does not receive a signal from the T955WH for 15 minutes it will turn off all relays until communication is reestablished. The Blue LED on the base module will also turn off to show communication has been lost.

Note:
If communication has been lost for 1 hour and if freeze protection is enabled, heat and emergency heat relays will be turned on. The heat and emergency heat relays will turn on for 10 minutes every hour if there has been a call for heat in the last 24 hours.

Important:
DO NOT hold the light button on the T955WH for more than 10 seconds after Step 2 above has been completed. Holding the light button down will break the communication link and the base module button will need to be pressed again to reestablish communication.
Technician Setup Menu

This thermostat has a technician setup menu for easy installer configuration. To set up the thermostat for your particular application:

1. Press MENU button

2. Press and hold TECHNICIAN SETUP button for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.

3. Configure the installer options as desired using the table below.

Use the < or > keys to change settings and the NEXT STEP or PREV STEP key to move from one option to another. Note: Only press DONE key when you want to exit the Technician Setup options.

### Tech Setup Steps

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<th>Cooling Swing</th>
<th>Heating Swing</th>
<th>Keypad Lockout</th>
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<tbody>
<tr>
<td>This feature will flash FILT in the display after the elapsed run time to remind the user to change the filter. A setting of OFF will disable this feature.</td>
<td>This feature allows the installer to change the calibration of the room temperature display. For example, if the thermostat reads 70° and you would like it to read 72° then select +2.</td>
<td>This feature allows the installer to select the minimum run time for the compressor. For example, a setting of 4 will force the compressor to run for at least 4 minutes every time the compressor turns on, regardless of the room temperature.</td>
<td>The compressor short cycle delay protects the compressor from &quot;short cycling&quot;. This feature will not allow the compressor to be turned on for 5 minutes after it was last turned off.</td>
<td>The swing setting, often called &quot;cycle rate&quot;, &quot;differential&quot; or &quot;anticipation&quot; is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.</td>
<td>The swing setting, often called &quot;cycle rate&quot;, &quot;differential&quot; or &quot;anticipation&quot; is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.</td>
<td>Keypad lockout allows you to configure the thermostat so that none or some of the keys do not function.</td>
</tr>
</tbody>
</table>

### LCD Will Show

- **OFF**
- **AN**
- **ON**
- **CO**
- **DF**
- **HE**

### Adjustment Options:

- You can adjust the room temperature display to ready -4°F to +4°F above or below the factory calibrated reading.
- You can select the minimum compressor run time from "off", "3", "4", or "5" minutes. If 3, 4, or 5 is selected, the compressor will run for at least the selected time before turning off.
- Selecting ON will not allow the compressor to be turned on for 5 minutes after the last time the compressor was on. Select OFF to remove this delay.
- The cooling swing setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the cooling on at approximately 0.5°F above the setpoint and turn the cooling off at approximately 0.5°F below the setpoint.
- The heating swing setting is adjustable from ±0.2°F to ±2°F. For Example: A swing setting of 0.5°F will turn the heating on at approximately 0.5°F below the setpoint and turn the heating off at approximately 0.5°F above the setpoint.

### Factory Default Settings:

- OFF
- 0 °F
- OFF
- ON
- 0.5 °F
- 0.4 °F
- PA

Note: To lock the keypad hold down the △ and ▼ keys for 3 seconds. You will see a lock in the display. To unlock the keypad hold down the △ and ▼ keys for 3 seconds.

Note: To lock the keypad hold down the △ and ▼ keys for 3 seconds. You will see a lock in the display. To unlock the keypad hold down the △ and ▼ keys for 3 seconds.
### Tech Setup Steps (Continued from the previous page)

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<th>Cooling Temperature Setpoint Limit</th>
<th>°F or °C</th>
<th>12 or 24 Hour Clock</th>
<th>Morning Recovery</th>
<th>Program Options</th>
<th>Display Light</th>
</tr>
</thead>
<tbody>
<tr>
<td>This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.</td>
<td>This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.</td>
<td>Select F for Fahrenheit temperature read out or select C for Celsius read out</td>
<td>You can select either a 12 or 24 hour clock setting.</td>
<td>This feature turns your system on before the WAKE programming time to ensure the environment is at the WAKE setpoint when the WAKE time period begins. This recovery changes over time based on the previous day’s experience.</td>
<td>You can configure this thermostat to have a 7 day program, a 5+1+1 program or nonprogrammable.</td>
<td>The display light can be configured to come on when any key is pressed or only when the light key is pressed.</td>
</tr>
</tbody>
</table>

#### LCD Will Show

- **90 ºF**
- **44 ºF**
- **74 ºF**
- **12 or 24 Hour Clock**
- **ON**
- **5d**
- **ON**

#### Adjustment Options

- Use the or key to select the maximum heat setpoint.
- Use the or key to select the minimum cool setpoint.
- Use the or key to select 12 or 24 hour clock.
- Use the or key to turn on or off.
- Use the or key to select 7d for 7 day, 5d for 5+1+1, or 0d for nonprogrammable.
- OFF configures display light to come on only with the light key, which will save battery power.
- ON configures the display light to come on when any key is pressed.

#### Factory Default Settings

| 90 ºF | 44 ºF | °F | 12 Hour Clock | ON | 5d | ON |

### PRO1 Tip

The second stage will turn on at 2x the swing setting. The second stage will turn off when 1x the swing is reached. For example, if the swing setting is .8 degrees for heating and the thermostat is set at 70ºF, the first stage will turn on at approximately 69.2ºF. The second stage will turn on at 68.4ºF. The second stage will turn off at 69.2ºF and the first will turn off at 70.8ºF. If third stage is used, it will turn on at 3x the swing and turn off at approximately 2x the swing.

### Balance Point:

The system operates differently when a balance point is used on a dual fuel system. The balance point outdoor temperature setting will be the outdoor temperature at which the thermostat chooses either the heat pump or gas furnace. *For Example:* A balance point setting of 30ºF will turn on only the heat pump above 30ºF and only the gas furnace below 30ºF. **Y1** will be stage one above 30ºF and **W2** will be stage one below 30ºF.
### Tech Setup Steps (Continued from the previous page)

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<th>Contractor Call Number</th>
<th>Beep</th>
<th>Heat Pump</th>
<th>System Switch</th>
<th>Fan Operation</th>
<th>Gas Auxiliary for Heat Pump</th>
<th>Cooling Fan Delay</th>
<th>Outdoor Sensor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Allows you to put your phone number in the display.</td>
<td>When any key is pressed an audible beep will sound. You can choose ON or OFF</td>
<td>When turned on the thermostat will operate a heat pump. 1. EM. Heat will show as an option in the system switch. 2. Y will be first stage of heat &amp; cool, W/E will be emergency heat relay &amp; W2 will be auxiliary heat relay.</td>
<td>You can configure the system switch for the particular application: Heat - Off, Cool - Off, Heat - Off - Cool-Auto</td>
<td>Select GAS for systems that control the fan during a call for heat. Select ELEC to have the thermostat control the fan during a call for heat. This option will turn the heat pump off 45 seconds after the auxiliary heat relay turns on. For 2 heat applications, the first stage will turn off 45 seconds after the auxiliary stage turns on. For 3 heat applications, the first and second stage will turn off 45 seconds after the auxiliary stage turns on.</td>
<td>This option will turn the heat pump off 45 seconds after the auxiliary heat relay turns on. For 2 heat applications, the first stage will turn off 45 seconds after the auxiliary stage turns on. For 3 heat applications, the first and second stage will turn off 45 seconds after the auxiliary stage turns on.</td>
<td>The cooling fan delay setting will delay the fan from coming on in cool mode and keep running after the compressor shuts off for a short time to save energy in some systems.</td>
<td>Enables the use of an outdoor sensor R250W. Connecting a R250W allows for a balance point setting. Selecting YES requires the T955WH master thermostat to be powered with 24V on C and R terminals. See R250W user guide for more information.</td>
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</table>

#### LCD Will Show

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>OFF</td>
<td>OFF</td>
</tr>
<tr>
<td>Off b</td>
<td>Off</td>
</tr>
<tr>
<td>Rs</td>
<td>Ab</td>
</tr>
<tr>
<td>Off</td>
<td>Off</td>
</tr>
<tr>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

#### Adjustment Options

- If selected ON, you will see the input screen after pressing next step.
- Use the < or > key to select the desired number and the FAN or SYSTEM key to move from one character to another. See note below on operation.
- If ON is selected, the beep will sound. If OFF is selected, there is no sound.
- OFF configures the thermostat for non heat pump systems. ON configures the thermostat for heat pump systems.
- Use the < or > key until the desired application is flashing.
- GAS or ELEC
- For heat pump systems that are "dual fuel" (use a gas furnace for auxiliary stage heat) you can turn this feature on to turn off the heat pump when the auxiliary stage of heating has been called for. This feature is disabled when a R250W is connected. See Balance Point on page 13.
- You can select the Cooling Fan Delay from OFF, 15, 30, 60 or 90 seconds.
- If 15, 30, 60 or 90 is selected the fan will not turn on for that many seconds when there is a call for cool and will run for that many seconds after satisfying a call for cool. This feature is disabled when a R250W is used. See Balance Point on page 13.
- When NO is selected the thermostat is unable to connect to an outdoor remote sensor R250W. When YES is selected the thermostat is able to connect to an outdoor remote sensor R250W. Press and hold connect button on R250W until the T955WH says FOUND OUTDOOR on display.

#### Factory Default Settings:

| OFF | ON | OFF | Heat - Off - Cool | GAS | OFF | OFF | NO |

### Note:
Connect an optional R250W outdoor remote temperature sensor to enable the balance point tech setup option.
### Tech Setup Steps (Continued from the previous page)

<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Enables the use of up to four indoor sensors R251W.</td>
<td>This step connect R251W to T955WH.</td>
<td>Disable the sensor on the master. At least one R251W indoor remote sensor must be connected to disable the local T955WH sensor.</td>
<td>Turns on the heat for 10 minutes each hour if unable to communicate with the T955WH master thermostat if there has been a call for heat in the last 24 hours.</td>
<td>Shows the Energy Star logo when the program meets Energy Star guidelines.</td>
<td>You can configure the thermostat to operate a 3 stage heat pump system.</td>
<td>Balance point can eliminate the need for a fossil fuel kit.</td>
<td>Balance point run time will allow the W2 auxiliary terminal to energize even if outdoor temperature is above the selected balance point temperature. If enabled, auxiliary will energize for the current cycle after the balance point run time has expired.</td>
</tr>
<tr>
<td>Selecting YES requires the T955WH master thermostat to be powered with 24V on C and R terminals.</td>
<td>The previous step Remote Sensor must be set to YES in order to connect an R251W.</td>
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<tr>
<td>LCD Will Show</td>
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<tr>
<td>Adjustment Options</td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>The number shown represents the zone. Use ⬅️ or ⬆️ to select the zone you wish to connect.</td>
<td>YES enables local T955WH sensor NO disables local T955WH sensor</td>
<td>YES enables freeze protection NO disables freeze protection</td>
<td>YES enables Energy Star feature NO disables Energy Star feature</td>
<td>Use the ⬅️ or ⬆️ key to change between 2 heat and 3 heat. 2 heat will use Y1 as first stage and W2 as auxiliary. 3 heat will use Y1 as first stage, Y2 as second stage and W2 as auxiliary.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Factory Default Settings: NO</td>
<td>YES</td>
<td>NO</td>
<td>NO</td>
<td>2 Stages</td>
<td>NO</td>
<td>NO</td>
<td></td>
</tr>
<tr>
<td>Note: Up to four R251W indoor temperature sensors can be connected to one T955WH. This allows for 5 sensing points (zones). For Example: The local (T955WH) plus four R251W sensors enables 5 sensing points. To connect an R251W to a T955WH, Select 1 on the T955WH FINDING SENSOR technician setup step. Then select Zone 1 on the R251W technician setup step. Then hold down the light button on the R251W until it beeps, while in ZONE technician setup step on R251W. To connect a second R251W change the T955W to read 2 and change the R251W to zone 2. The zone setting must match between the T955WH and the R251W to connect. When the connection is established the T955WH will show FOUND + NAME OF R251W in the system information area of the display.</td>
<td></td>
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</tr>
</tbody>
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## Tech Setup Steps (Continued from the previous page)

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<th>Humidify</th>
<th>Dehumidify</th>
<th>Humidity Calibration</th>
<th>Dehumidify with AC</th>
<th>Over Cool Limit</th>
<th>HUM Terminal</th>
<th>DHM Terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>This feature adds humidity when System key is in Heat.</strong></td>
<td><strong>This feature removes humidity when System key is in Cool.</strong></td>
<td><strong>This feature allows the installer to change the calibration of the ambient humidity displayed.</strong></td>
<td><strong>This feature forces the A/C to run longer to remove humidity when needed. The A/C will “over cool” the room a few degrees until the humidity reaches the desired setpoint.</strong></td>
<td><strong>The amount of over cooling allowed when using A/C to remove humidity.</strong></td>
<td><strong>Options for how the HUM terminal energizes.</strong></td>
<td><strong>Option for how DHM terminal energizes.</strong></td>
</tr>
</tbody>
</table>

### LCD Will Show

- **OFF**
- **OFF**
- **0**
- **NO**
- **3**
- **1**
- **1**

### Adjustment Options

- Use the **<** or **>** key to turn on or off. If ON is selected the humidity will be displayed on the main screen and Hum terminal will energize when humidity setpoint is above ambient humidity in **Heat** mode.
- Use the **<** or **>** key to turn on or off. If ON is selected the humidity will be displayed on the main screen and DHM terminal will energize when humidity setpoint is below ambient humidity in **Cool** mode.
- Use the **<** or **>** key to select **YES** or **NO**. If selected **YES** allows over cooling to be used to control humidity in **Cool** mode. If **NO** is selected the system will not use over cooling.
- Use the **<** or **>** key to select **YES** or **NO**. Use the HUM Terminal chart below for an explanation of these options.
- Use the **<** or **>** key to select one of the four options. View the DHM Terminal chart below for an explanation of these options.

### Factory Default Settings

- **OFF**
- **OFF**
- **0**
- **NO**
- **3**
- **1**
- **1**

### HUM Terminal

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>HUM terminal energizes when the ambient humidity is...</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>below the humidity setpoint and heat or fan is energized.</td>
</tr>
<tr>
<td>2</td>
<td>below the humidity setpoint and heat is energized.</td>
</tr>
<tr>
<td>3</td>
<td>below the humidity setpoint. It will also energize the fan during a call for humidity.</td>
</tr>
<tr>
<td>4</td>
<td>below the humidity setpoint.</td>
</tr>
</tbody>
</table>

### DHM Terminal

<table>
<thead>
<tr>
<th>OPTIONS</th>
<th>DHM terminal energizes when the ambient humidity is...</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>above the humidity setpoint and cool or fan is energized.</td>
</tr>
<tr>
<td>2</td>
<td>above the humidity setpoint. It will also energize the fan during a call for humidity.</td>
</tr>
<tr>
<td>3</td>
<td>above the humidity setpoint.</td>
</tr>
<tr>
<td>4</td>
<td>above the humidity setpoint and the compressor is not running.</td>
</tr>
</tbody>
</table>
Mount Thermostat and Base Module

Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat or base module. Then push gently until the thermostat or base module snaps in place.

**Note:** To insure a solid fit between the thermostat and the subbase:

1. Mount subbase to a flat wall
2. Use screws provided
3. Drywall anchors should be flush with the wall
4. Wires should be pushed into the wall

Battery Installation

Battery installation is optional if there are no remotes connected to the Master Thermostat (C terminal connected). If you connect an outdoor remote and/or indoor remote sensors it is required the thermostat be hardwired.

On the back of the thermostat insert 2 AA Alkaline batteries (included).
Setting Target Humidity Setpoint

Follow the steps below to change your target humidity setpoint.

Press the HUMIDITY key

Use the ← or → key to select the target humidity setpoint.

Press DONE when completed

Note:
The target humidity setpoint is not programmable. Unlike temperature, humidity does not change quickly and should not be programmed.

Note:
Humidity is only energized during heat. Dehumidify is only energized during cool. Heat and Cool each have their own target setpoints.

Ambient Humidity Display
Ambient humidity will flash opposite the day and time, if the optional R250W outdoor temperature sensor is installed the ambient outdoor temperature will also cycle in the display.

Recommended Heating Settings:
Increasing Humidity
The table on the right shows recommended indoor humidity levels in relation to outdoor temperatures during heating (adding humidity).

<table>
<thead>
<tr>
<th>Outside Temperature (°F)</th>
<th>Recommended Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>+20° and above</td>
<td>35% to 40%</td>
</tr>
<tr>
<td>+10°</td>
<td>30%</td>
</tr>
<tr>
<td>0°</td>
<td>25%</td>
</tr>
<tr>
<td>-10°</td>
<td>20%</td>
</tr>
<tr>
<td>-20°</td>
<td>15%</td>
</tr>
</tbody>
</table>

Recommended Cooling Settings:
Consult your professional HVAC technician for recommended settings for your climate.
Set Time

Follow the steps below to set the day of the week and current time:

1. Press **MENU**
2. Press **SET TIME**
3. Day of the week will be flashing. Use the << or >> key to select the current day of the week.
4. Press **NEXT STEP**
5. The current hour is flashing. Use the << or >> key to select the current hour. When using 12-hour time, make sure the correct a.m. or p.m. choice is selected.
6. Press **NEXT STEP**
7. Minutes are now flashing. Use the << or >> key to select current minutes.
8. Press **DONE** when completed

Programming

All programmable Pro1 thermostats are shipped with an energy saving pre-program. You can customize this default program by following the Set Program Schedule.

Your thermostat can be programmed to have each day of the week programmed uniquely (7 days), all the weekdays the same with a separate program for Saturday and a separate program for Sunday (5+1+1), or nonprogrammable. There are four time periods for each day (**WAKE**, **LEAVE**, **RETURN**, **SLEEP**). This thermostat has a programmable fan feature, which allows you to run the fan continuously during any time period.

<table>
<thead>
<tr>
<th>Day of the Week</th>
<th>Events</th>
<th>Time</th>
<th>Setpoint Temperature (Heat)</th>
<th>Setpoint Temperature (Cool)</th>
<th>Zone (If RZ51W is connected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekday</td>
<td>Wake</td>
<td>6 a.m.</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td>8 a.m.</td>
<td>62°F (17°C)</td>
<td>83°F (28°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td>6 p.m.</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td>10 p.m.</td>
<td>62°F (17°C)</td>
<td>78°F (26°C)</td>
<td>System Average</td>
</tr>
<tr>
<td>Saturday</td>
<td>Wake</td>
<td>8 a.m.</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td>10 a.m.</td>
<td>62°F (17°C)</td>
<td>83°F (28°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td>6 p.m.</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td>11 p.m.</td>
<td>62°F (17°C)</td>
<td>78°F (26°C)</td>
<td>System Average</td>
</tr>
<tr>
<td>Sunday</td>
<td>Wake</td>
<td>8 a.m.</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td>10 a.m.</td>
<td>62°F (17°C)</td>
<td>83°F (28°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td>6 p.m.</td>
<td>70°F (21°C)</td>
<td>75°F (24°C)</td>
<td>System Average</td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td>11 p.m.</td>
<td>62°F (17°C)</td>
<td>78°F (26°C)</td>
<td>System Average</td>
</tr>
</tbody>
</table>
You can use the table below to plan your customized program schedule if using 5+1+1.

### Factory Default Program

<table>
<thead>
<tr>
<th>Day of the Week</th>
<th>Events</th>
<th>Time</th>
<th>Setpoint Temperature (Heat)</th>
<th>Setpoint Temperature (Cool)</th>
<th>Zone (If R251W is connected)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekday</td>
<td>Wake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday</td>
<td>Wake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sunday</td>
<td>Wake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Leave</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Return</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Sleep</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Set 5+1+1 Program Schedule

To customize your 5+1+1 program schedule, follow these steps

**Weekday:**

1. Select **HEAT** or **COOL** using the **SYSTEM** key.  
   **Note:** You have to program heat and cool each separately.

2. Press **MENU**

3. Press **SET SCHED**. Note: Monday-Friday is displayed and the **WAKE** icon is shown. You are now programming the **WAKE** time period for the weekday setting.

4. Time is flashing. Use the **--** or **++** key to make your time selection for the weekday **WAKE** time period. Note: If you want the fan to run continuously during this time period, select **ON** with the **FAN** key.

5. Press **NEXT STEP**

6. The setpoint temperature is flashing. Use the **++** or **--** key to make your setpoint selection for the weekday **WAKE** period.

7. Press **NEXT STEP**

8. Repeat steps 4 through 7 for weekday **LEAVE** time period, for weekday **RETURN** time period, and for weekday **SLEEP** time period.

**Saturday:**

9. Repeat steps 4 through 7 for Saturday **WAKE** time period, for Saturday **LEAVE** time period, for Saturday **RETURN** time period, and for Saturday **SLEEP** time period.

**Sunday:**

10. Repeat steps 4 through 7 for Sunday **WAKE** time period, for Sunday **LEAVE** time period, for Sunday **RETURN** time period, and for Sunday **SLEEP** time period.

**Additional step if R251W indoor remote sensor is connected.**

The **T955WH** master thermostat will either average all sensors (system average) or only use one sensor for the system ambient temperature (priority). The default setting is **SYSTEM AVERAGE**, which means all sensors are averaged to create the system average ambient temperature reading. The **NEXT ZONE** key can be pressed to change the priority. The system information area of the display shows the priority.

*For Example:* There is an **R251W** connected and it is named **REMOTE 1**. If the **NEXT ZONE** key is pressed until **REMOTE 1** is shown, then the **REMOTE 1** ambient temperature reading will be used exclusively for that time period. All other sensors will be ignored.
Set 7 Day Program Schedule

To customize your 7 day program schedule, follow these steps:

Monday

1. Select HEAT or COOL using the system key. You have to program heat and cool each separately.

2. Press MENU

3. Press SET SCHED
   
   Note: Monday is displayed and the WAKE icon is shown. You are now programming the WAKE time period for the Monday setting.

   Time is flashing. Use the \(<\) or \(>\) key to make your time selection for the Monday WAKE time period. Note: If you want the fan to run continuously during this time period, select ON with the FAN key.

4. Press NEXT STEP

5. The setpoint temperature is flashing. Use the \(\uparrow\) or \(\downarrow\) key to make your setpoint selection for the Monday WAKE period.

6. Press NEXT STEP

7. Repeat steps 4 thru 7 for Monday LEAVE time period, for Monday RETURN time period, and for Monday SLEEP time period.

Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

Repeat steps 4 thru 7 for the remaining days of the week.

Additional step if R251W indoor remote sensor is connected.

The T955WH master thermostat will either average all sensors (system average) or only use one sensor for the system ambient temperature (priority). The default setting is SYSTEM AVERAGE, which means all sensors are averaged to create the system average ambient temperature reading. The NEXT ZONE key can be pressed to change the priority. The system information area of the display shows the priority.

For Example: There is an R251W connected and it is named REMOTE 1. If the NEXT ZONE key is pressed until REMOTE 1 is shown, then the REMOTE 1 ambient temperature reading will be used exclusively for that time period. All other sensors will be ignored.

A Note About Auto Changeover:
Auto changeover will switch between heating and cooling as needed. It is very important to make sure the cooling setpoint temperature is at least 3° above the heating setpoint temperature and that the heating setpoint temperature is at least 3° below the cooling setpoint temperature.

A Note About Programmable Fan:
The programmable fan feature will run the fan continuously during any time period it is programmed to be on. This is the best way to keep the air circulated and to eliminate hot and cold spots in your building.
Specifications

T955WH Thermostat

The display range of temperature .......... 41ºF to 95ºF (5ºC to 35ºC)
The control range of temperature .......... 44ºF to 90ºF (7ºC to 32ºC)
Load rating .................................... 1 amp per terminal, 1.5 amp maximum all terminals combined
Display accuracy ................................ ± 1ºF
Swing (cycle rate or differential) ............ Heating is adjustable from 0.2ºF to 2.0ºF
Cooling is adjustable from 0.2ºF to 2.0ºF
Power source .................................... 18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire)
Battery power from 2 AA Alkaline batteries
Operating ambient ............................ 32ºF to +105ºF (0º to +41ºC)
Operating humidity ............................ 90% non-condensing maximum
Dimensions of thermostat .................... 4.7”W x 4.4”H x 1.1”D
Frequency ...................................... 916 MHz

Base Module

Load rating .................................... 1 amp per terminal, 1.5 amp maximum all terminals combined
Power source .................................... 18 to 30 VAC, NEC Class II, 50/60 Hz
Operating ambient ............................ 32ºF to +150ºF (0º to +65ºC)
Operating humidity ............................ 90% non-condensing maximum

Contact Us

Pro1 IAQ Inc.
1111 S. Glenstone
Suite 2-100
Springfield, MO 65804

Toll-free: 1-888-Pro1iaq (776-1427)
Toll Number (Outside the USA): 330-821-3600
Web: http://www.pro1iaq.com
Hours of Operation: Monday - Friday 9 AM - 6 PM Eastern