



This manual covers the:

Wireless Zoning Starter Package

- Z955W Master Zoning Thermostat
- Equipment Base Module

Thermostat Applications Guide

Description	
Gas or Oil Heat	Yes
Electric Furnace	Yes
Heat Pump (No Aux. or Emergency Heat)	Yes
Heat Pump (with Aux. or Emergency Heat)	Yes
Multi-stage Systems	Yes
Heat Only Systems	Yes
Cool Only Systems	Yes
Dual Fuel Systems	Yes
Millivolt	No

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Una versión española de este manual puede ser descargada en www.pro1iaq.com

This Package contains control equipment for MASTER ZONE ONLY. To add zones to this system, additional equipment is required. A total of 5 zones can be setup with this system.

Power Type

Base Module: Hardwire
 Z260W: Hardwire
 Z955W: Hardwire (Common Wire) with Battery Backup

Additional zoning system equipment ***not*** *included in this package.

RZ251W Zone Remote Thermostat (Battery Power)
 RZ250W Outdoor Remote Sensor (Battery Power)
 ZDA250W Discharge Air Sensor (Hardwire)
 Z260W: Additional Damper Modules (Hardwire)

A trained, experienced technician must install this product.

Carefully read these instructions. You could damage this product or cause a hazardous condition if you fail to follow these instructions.

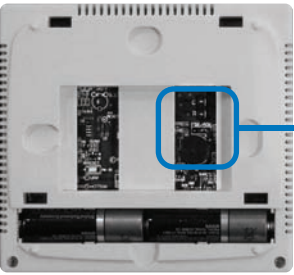


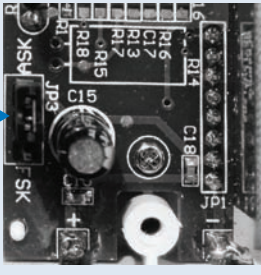
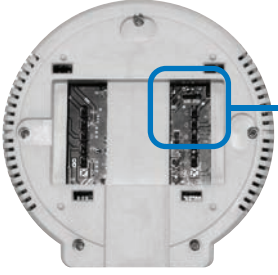
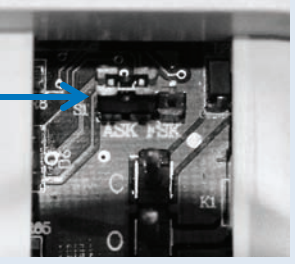

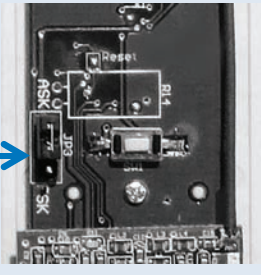

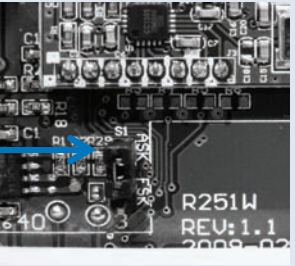
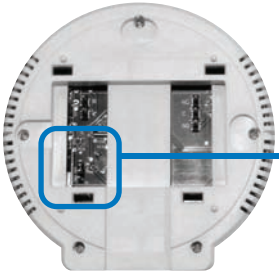
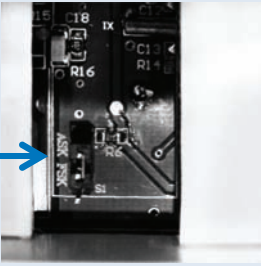
Need Help?

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)

The PRO1 Wireless Zoning System contains selectable wireless communication. Each component has a jumper switch label FSK and ASK. Default setting: FSK

- All components must be set to the same position for wireless communication.
- Both modes utilize a 916 MHz frequency.
- FSK: frequency-shift keying, this mode improves the signal transmission through dense materials.
- ASK: amplitude-shift keying, set all components to this mode in applications requiring use of the W150W Wireless Repeater. All components are compatible with the Wireless Repeater in this mode.

(*The Wireless Repeater is an optional accessory to achieve exceptionally long wireless range. Most installations will not require the Wireless Repeater.)

Back	FSK/ ASK Switch	Back	FSK/ ASK Switch
<p style="text-align: center;">Z955W</p> 		<p style="text-align: center;">RZ250W</p> 	
<p style="text-align: center;">Z270W</p> 		<p style="text-align: center;">ZDA250W</p> 	
<p style="text-align: center;">RZ251W</p> 		<p style="text-align: center;">Z260W</p> 	

Establishing Communication between Z955W Master Thermostat and the Base Module

The thermostat and base module come factory linked out of the box. If however, communication is lost, follow this easy- **Two Step** process to re-establish the communication link.

1. Press and hold the **Base Module** button for 3 seconds. The **Blue LED** will flash when ready to receive initial signal from **Z955W**. (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 **Z955W** for 10 seconds, the **Blue LED** on the base module will stop flashing after communication has been established between **base module** and the **Z955W**.

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 **Z955W**. When a relay is on the corresponding LED relay indicator will be on.

Note:

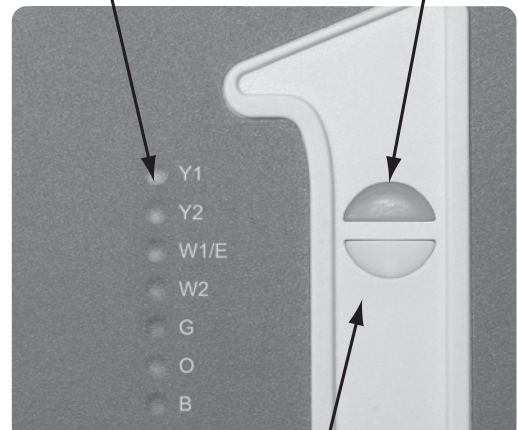
If the base module does not receive a signal from the **Z955W** for 15 minutes it will turn off all relays until communication is reestablished. The **Blue LED** on the base module will also turn off to show communication has been lost.

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.

Step 1.

LED Relay Indicators Blue LED



Base Module Button

Step 2.

Light key



Important:

DO NOT hold the light button on the **Z955W** 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.

Getting to know your thermostat



- ① LCD (right)
- ② *Glow in the Dark Light Button
- ③ Fan Button
- ④ System Button
- ⑤ Temperature Setpoint Buttons
- ⑥ Menu 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.



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.

Days of the week and time. Flashes outside temperature when used with RZ250W. **OUTDOOR** will show.

REMOTE indicates a remote has control of the system.

HOLD is displayed when thermostat program is permanently overridden.

Displays the user selectable setpoint temperature.

System operation indicators: * * * COOL HEAT FAN

The **COOL**, **HEAT** or **FAN** icon will display when the **COOL**, **HEAT** or **FAN** is on. **NOTE:** The compressor delay feature is active if these icons are flashing. The compressor will not turn on until the 5 minute delay has elapsed. A delay is active when icons are flashing. (Zoning has staging delays & opposite call delays in addition to compressor delay.)

Program Menu Options: Shows different options during programming.

System Information: Shows which zone or zones are controlling your system. Shown only when one or more indoor sensors **RZ251W** are connected.

Wireless Icon

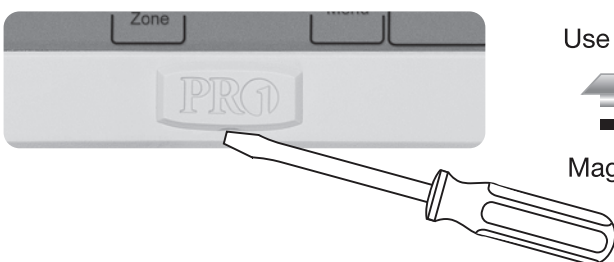
Temperature: Indicates the current system temperature.

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.

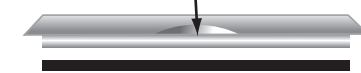
Low Battery Indicator: Replace batteries when this indicator is shown.

Programmable Time Period Icons: This thermostat can have programmable time periods per day. Icons are displayed for 4 time periods.

Removing the private label badge



Use the bevel on lower ridge



Magnet in door

Gently slide a screwdriver into the bottom edge of the badge. Gently turn the screwdriver counter clockwise. The badge is held on by a magnet. The badge should pry off easily. **Do not use force.**

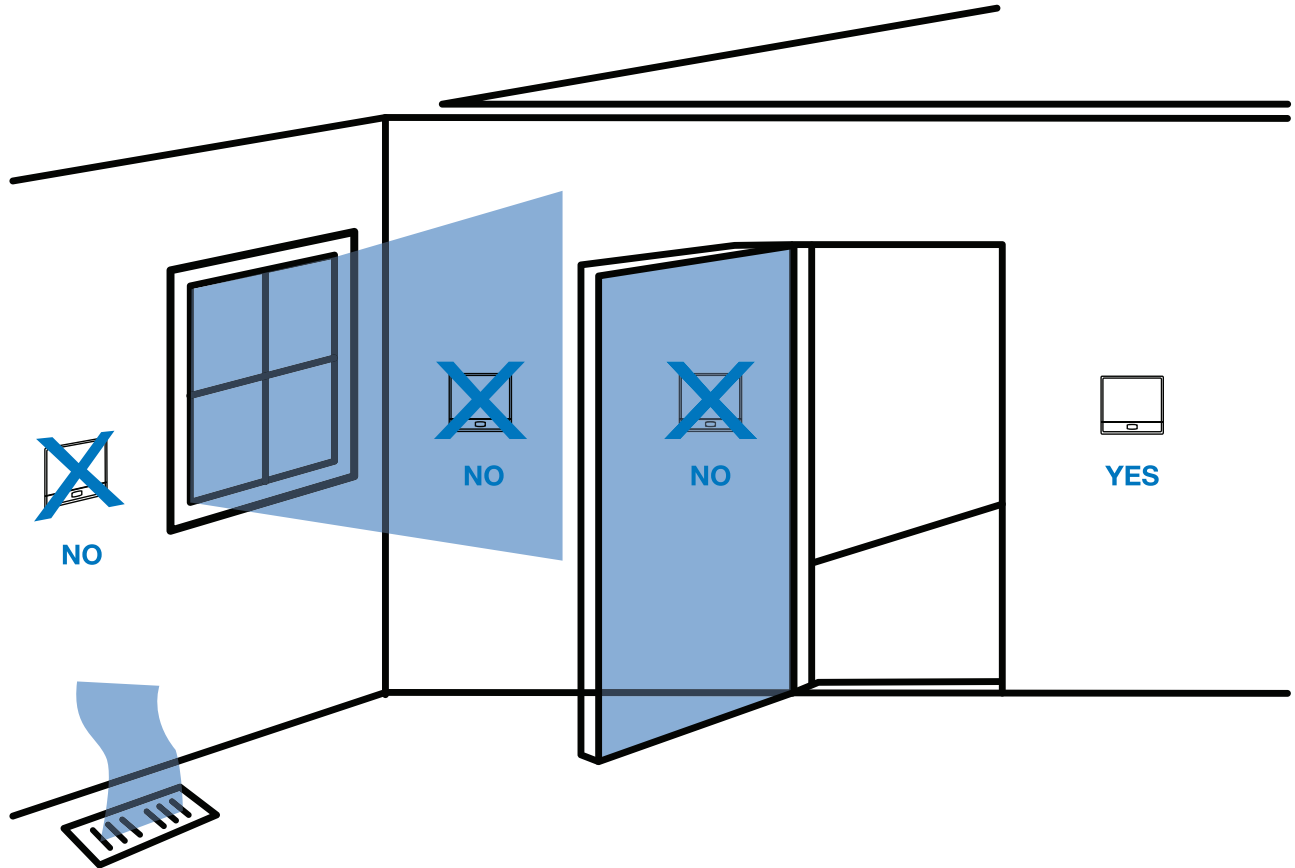
PRO1 Tip

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.

Master Thermostat-Z955W

Wall locations

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 might be concealed chimneys or pipes
- Where appliances could radiate heat
- Where there are dead spots or drafts (in corners or behind doors)

Note:

The Z955W must be hardwired (C and R terminals connected to 24 VAC). Batteries may be used for clock backup during power-outages.

Master Thermostat Subbase Installation:



Caution: Electrical Hazard

Failure to disconnect the power before beginning to install this product can cause electrical shock or equipment damage.



Mercury Notice:

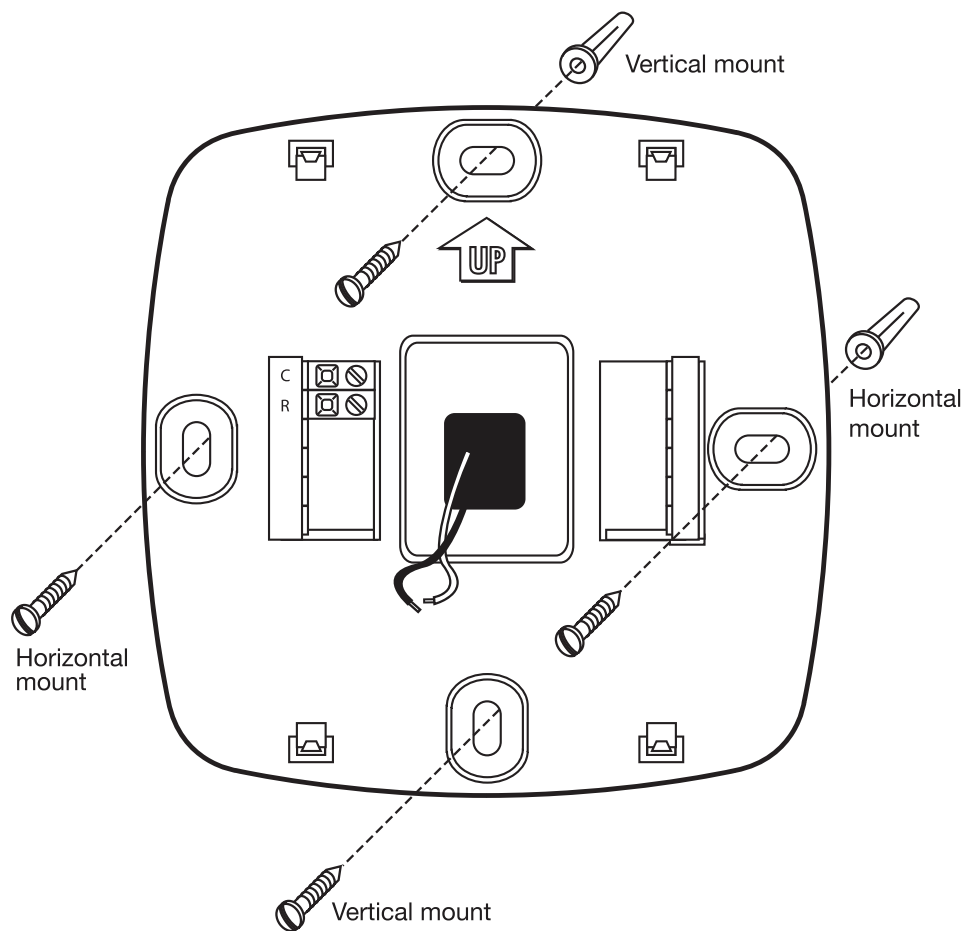
All of Pro1's products are mercury free. However, if the product you are replacing contains mercury, dispose of it properly. Your local waste management authority can give you instructions on recycling and proper disposal.

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.

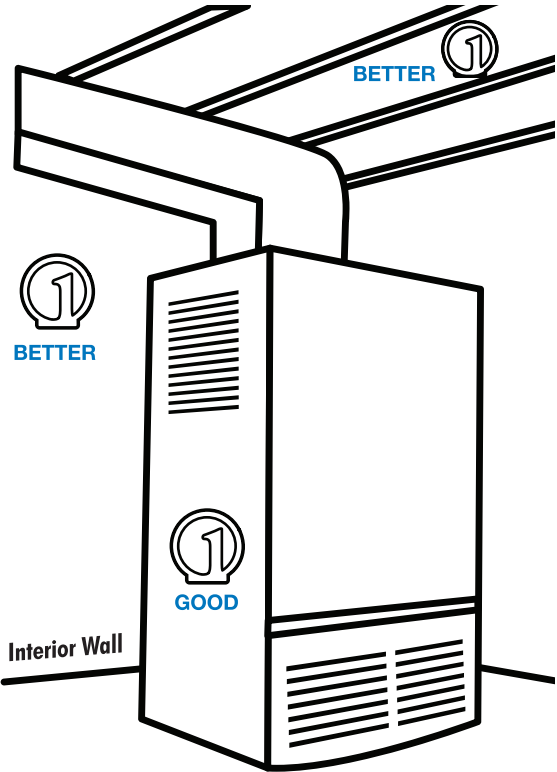


Note:

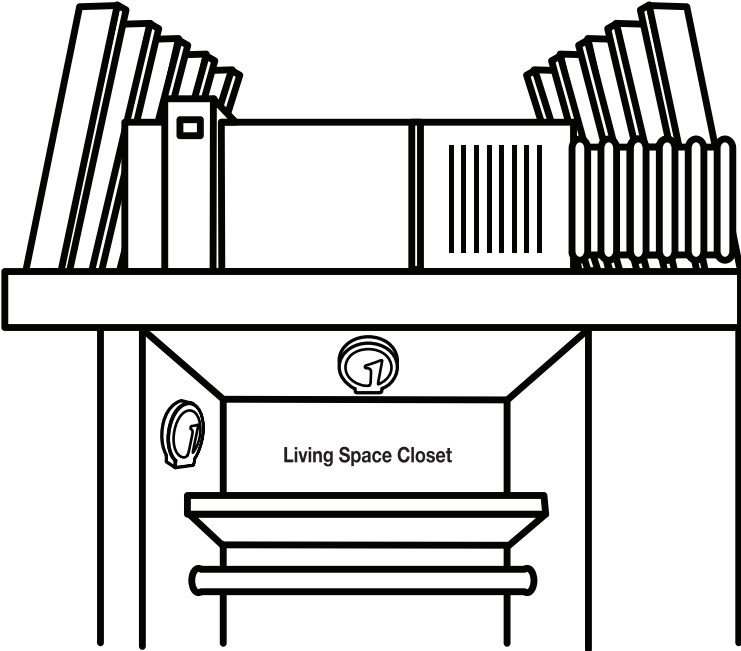
The Z955W must be hardwired (C and R terminals connected to 24V power)

Equipment Base Module Installation Tips

Basement Installation Wire Base Module with 8ft pigtail and temporarily mount. If you are not able to establish communication, this will allow you to relocate the Module to an area with less obstruction, without having to rewire.



Attic Installation Locate a closet nearest the equipment. Then mount the base module high on the wall or on the ceiling inside the closet. This location will insure keeping below maximum temperature specification.



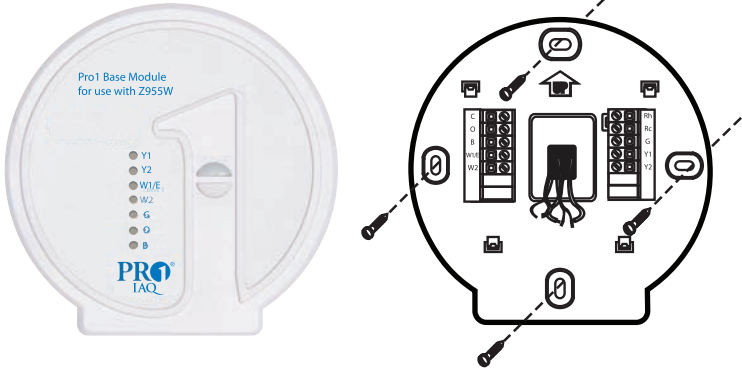
Wireless Range The range between this module and the Z955W is approximately 50ft in standard residential construction. To extend the range try placing the module higher, if in a basement try further away from large metal objects.


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.

*There is a channel for wiring on the back side of the module for surface mounting.

Base Module Subbase Installation

Wiring Note:

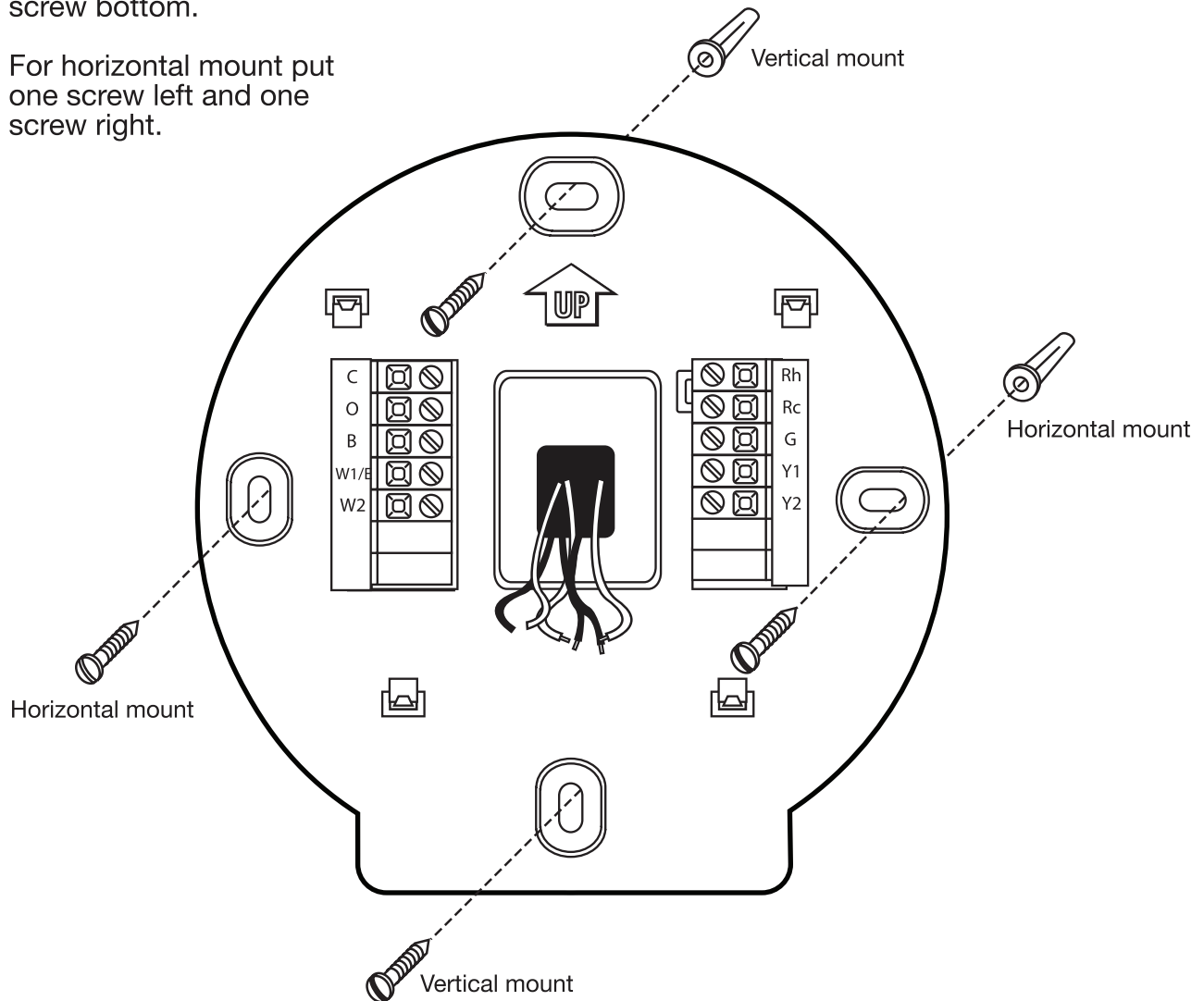
Wire the base module subbase the same way you would wire a hardwired thermostat subbase.

Note:

To connect the base module to master thermostat, refer to the directions on page 3 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).

INSTALLATION MANUAL

MOUNT THERMOSTAT & BATTERY INSTALLATION

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



Note:

The base module can be wired from the back or the bottom.

Battery Installation

On the back of the thermostat insert 2 AA Alkaline batteries (included).



PRO1 Tip

The Z955W must be hardwired (R and C terminals connected to 24 VAC). Batteries may be used for clock backup during power-outages, batteries are also recommended to simplify establishing communication process. This allows the installer to take the master thermostat to each zone they are connecting.

Equipment Base Module 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.



Warning:

All components of the control system and the thermostat installation must conform to Class II circuits per the NEC Code.

Wire specifications

Use shielded or non-shielded 18 - 22 gauge thermostat wire.

Note:

In many heat pump systems with no emergency heat relay a jumper can be installed between E and W2.

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.

Terminal	2 Heat 2 Cool Conventional System	2 Heat 2 Cool Heat Pump System	3 Heat 2 Cool Heat Pump System
RC	Transformer power (cooling)	Transformer power (cooling)	Transformer power (cooling)
RH	Transformer power (heating)	Transformer power (heating)	Transformer power (heating)
C	Transformer common	Transformer common	Transformer common
B	Energized in heating	Heat pump changeover valve energized in heating	Heat pump changeover valve energized in heating
O	Energized in cooling	Heat pump changeover valve energized in cooling	Heat pump changeover valve energized in cooling
G	Fan relay	Fan relay	Fan relay
W/E	First stage of heat	Emergency heat relay	Emergency heat relay
Y	First stage of cool	First stage of heat & cool	First stage of heat & cool
Y2	Second stage of cool	Second stage of cool	Second stage of cool & second stage of heat
W2	Second stage of heat	Auxiliary heat relay, second stage of heat	Auxiliary heat relay, third stage of heat

Note: On most heat pump system a jumper should be installed between W/E and W2.

Terminal Designations on Z955W Master Thermostat

Terminal	2 Heat 2 Cool Conventional System	2 Heat 2 Cool Heat Pump System	3 Heat 2 Cool Heat Pump System
R	24 VAC Transformer power	24 VAC Transformer power	24 VAC Transformer power
C	Transformer common	Transformer common	Transformer common

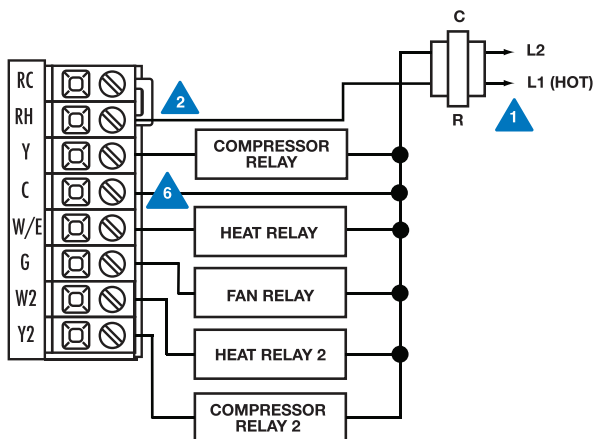
Powering the Z955W Master Thermostat

If you add remote sensors (RZ250W or RZ251W) to this wireless system you must hardwire the Z955W master thermostat.

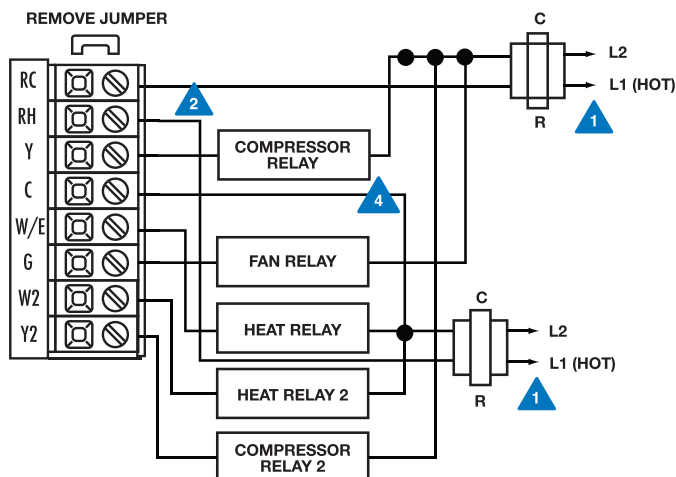
Equipment Base Module Wiring

- ▲ 1 Power supply.
- ▲ 2 Factory-installed jumper. Remove only when installing on 2-transformer systems.
- ▲ 3 Use either O or B terminals for changeover valve.

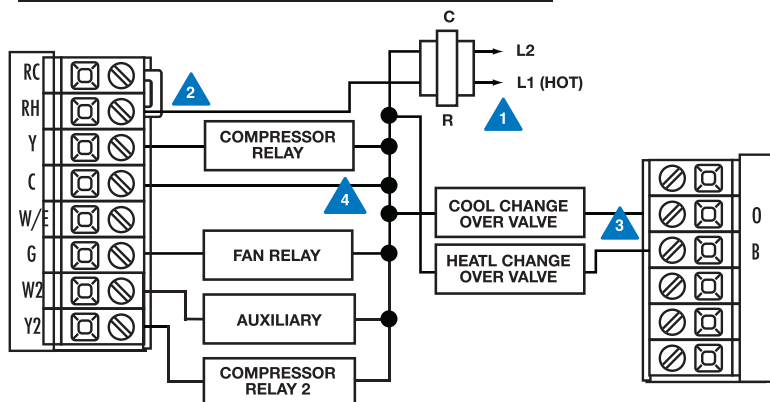
Typical 2H/2C system: 1 transformer



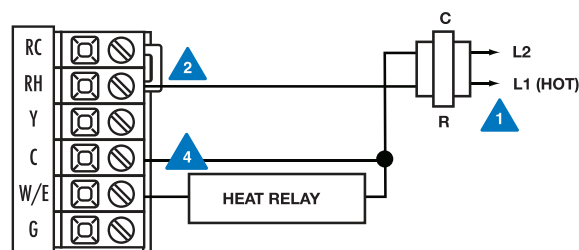
Typical 2H/2C system: 2 transformer



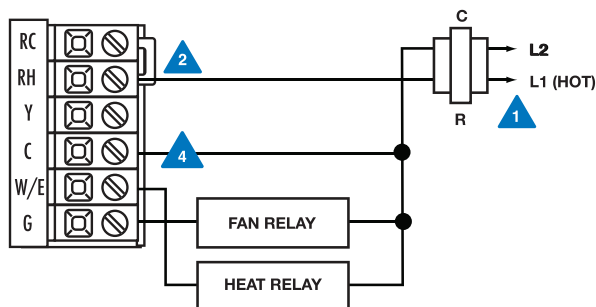
Typical 3H/2C heat pump system



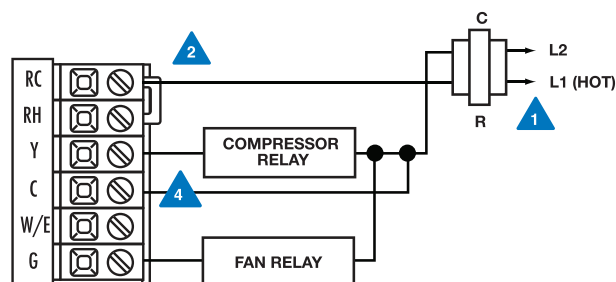
Typical heat-only system



Typical heat-only system with fan



Typical cool-only system





NOTE: In many systems with no emergency heat relay a jumper can be installed between E and W2.










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						
Filter Change Reminder	Room Temperature Calibration	Minimum Compressor On Time	Compressor Short Cycle Delay	Cooling Swing	Heating Swing	Keypad Lockout
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.	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.	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.	The compressor short cycle delay protects the compressor from "short cycling". This feature will not allow the compressor to be turned on for 5 minutes after it was last turned off.	The swing setting, often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	The swing setting, often called "cycle rate", "differential" or "anticipation" is adjustable. A smaller swing setting will cause more frequent cycles and a larger swing setting will cause fewer cycles.	Keypad lockout allows you to configure the thermostat so that none or some of the keys do not function.
LCD Will Show						
						
Adjustment Options						
You can adjust the filter change reminder from OFF to 2000 hours of runtime in 50 hour increments.	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.	Pick PA or FU PA = partial keypad lockout, which locks all the keys except the  or  keys. FU = Full keypad lockout, which locks out all the keys. Note: Keypad lockout instructions are below.
Factory Default Settings						
OFF	0 °F	OFF	ON	0.5 °F	0.4 °F	PA

Note: The function of activating your Keypad Lockout choice takes place after you have exited Tech Setup. If you do not perform this activation procedure, all keys will function freely. 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
ON THE NEXT PAGE



Tech Setup Steps (Continued from the previous page)

Heating Temperature Setpoint Limit	Cooling Temperature Setpoint Limit	°F or °C	12 or 24 Hour Clock	Morning Recovery	Program Options	Display Light
<p>This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.</p>	<p>This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.</p>	<p>Select F for Fahrenheit temperature read out or select C for Celsius read out.</p>	<p>You can select either a 12 or 24 hour clock setting.</p>	<p>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.</p>	<p>You can configure this thermostat to have a 7 day program, a 5+1+1 program or nonprogrammable.</p>	<p>The display light can be configured to stay on at all times or come on when any key is pressed.</p> <p>NOTE: THERMOSTAT MUST BE HARDWIRED ONLY. Keeping the display light continually "ON" will greatly reduce battery life.</p>

LCD Will Show



Adjustment Options

<p>Use the ◀ or ▶ key to select the maximum heat setpoint.</p>	<p>Use the ◀ or ▶ key to select the minimum cool setpoint.</p>	<p>°F for Fahrenheit °C for Celsius</p>	<p>Use the ◀ or ▶ key to select 12 or 24 hour clock.</p>	<p>Use the ◀ or ▶ key to turn on or off.</p>	<p>Use the ◀ or ▶ key to select 7d for 7 day, 5d for 5+1+1, or 0d for nonprogrammable.</p>	<p>OFF configures display light to come on when the light key or any button on screen is pressed.</p> <p>ON configures the display light to stay on. Use the ◀ or ▶ key to turn on or off.</p>
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Factory Default Settings

90 °F	44 °F	°F	12 Hour Clock	ON	5d	OFF
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TECH SETUP
STEPS CONTINUED
ON THE NEXT PAGE

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 70°F, the first stage will turn on at approximately 69.2°F. The second stage will turn on at 68.4°F. The second stage will turn off at 69.2°F and the first will turn off at 70.8°F. If third stage is used, it will turn on at 3x the swing and turn off at approximately 2x the swing.

Tech Setup Steps (Continued from the previous page)

Contractor Call Number	Beep	Heat Pump	Fan Operation	Gas Auxiliary for Heat Pump	Stages of Heat	Cooling Fan Delay
Allows you to put your phone number in the display. You can choose ON or OFF	When any key is pressed an audible beep will sound. You can choose ON or OFF.	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 & cool, W/E will be emergency heat relay & W2 will be auxiliary heat relay.	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.	You can configure the thermostat to operate a 3 stage heat pump system. 2H 2C = 2 heat, 2 cool 3H 2C = 3 heat, 2 cool This feature only shows if Technician Setup Step for HEAT PUMP is set to ON .	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.

LCD Will Show



Adjustment Options

If selected ON, you will see the input screen after pressing next step. Use the \leftarrow or \rightarrow key to select the desired number and the \leftarrow or \rightarrow 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.	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. See Balance Point on page 15.	Use the \leftarrow or \rightarrow 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.	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 RZ250W is used. See Balance Point on page 15.
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Factory Default Settings

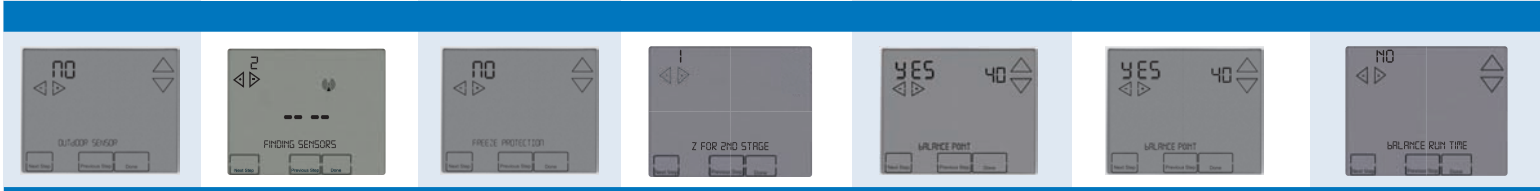
OFF	ON	OFF	GAS	OFF	2 Stages	OFF
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TECH SETUP
STEPS CONTINUED
ON THE NEXT PAGE



Tech Setup Steps (Continued from the previous page) Requires RZ250W

Outdoor Sensor	Zone Remote Thermostat	Freeze Protection	Zones Calling for 2nd Stage	Balance Point (Gas Auxiliary ON)	Balance Point (Gas Auxiliary OFF)	Balance Run Time
<p>Enables the use of an outdoor sensor RZ250W.</p> <p>Connecting a RZ250W allows for a Balance Point settings and will also display outdoor temperature.</p> <p>See RZ250W user guide for more information.</p>	<p>This step connects RZ251W to Z955W.</p> <p>Z955W is Zone 1.</p> <p>RZ251W is the wireless zone thermostat for Zones 2-5. Each Zone will require one RZ251W.</p>	<p>Turns on the heat for 10 minutes each hour if unable to communicate with the Z955W master thermostat if there has been a call for heat in the last 24 hours.</p>	<p>Configure the number of zones that must be calling for the same mode (heating for cooling) to allow 2nd stage to energize. At least one of the zones must be calling for 2nd stage.</p> <p>For heat pump applications, auxiliary heat will be allowed to energize if only one zone is calling for heating. If Balance Point is enabled, the Balance Point conditions must be met for auxiliary heat to energize.</p>	<p>Balance point can eliminate the need for fossil fuel kit. An outdoor temperature above balance point will cause the thermostat to only allow the Y terminal(s) to energize. An outdoor temperature below balance point will cause the thermostat to only allow W2 to energize.</p> <p>Note: Only shows up if Heat Pump is set to YES. Outdoor Sensor is turned ON, and GAS Auxiliary is turned ON.</p>	<p>Balance point with electric auxiliary can optimize Heat Pump usage. An outdoor temperature above balance point will cause the thermostat to only allow the Y terminal(s) to energize. An outdoor temperature below balance point will cause the thermostat to allow the Y terminal(s) and the W2 terminal to energize.</p> <p>Note: Only shows up if Heat Pump is set to YES and Outdoor Sensor is turned ON and GAS Auxiliary is turned OFF.</p>	<p>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 their current cycle after the balance point run time has expired.</p>









<p>When NO is selected the thermostat is unable to connect to an outdoor remote sensor RZ250W.</p> <p>When YES is selected the thermostat is able to connect to an outdoor remote sensor RZ250W.</p> <p>Press and hold connect button on RZ250W until the Z955W says FOUND OUTDOOR on display.</p>	<p>The number shown represents the zone, 2-5.</p> <p>Use \leftarrow or \rightarrow to select the zone you wish to connect.</p> <p>The zone setting on the Z955W and the RZ251W must be the same to connect. See the RZ251W Installation Manual for detailed RZ251W connection information.</p>	<p>YES enables freeze protection</p> <p>NO disables freeze protection</p>	<p>Use - and + to select 1, 2, or 3 zones that must be calling to allow 2nd stage to energize. The number of zones calling for the same mode, with at least one zone calling for 2nd stage, must match this setting to allow 2nd stage to energize.</p>	<p>10, 20,30, 35, 40, 45, 50 outdoor temperature balance point setting.</p> <p>NO</p>	<p>10, 20,30, 35, 40, 45, 50 outdoor temperature balance point setting.</p> <p>NO</p>	<p>YES 15, 30, 45, 60, 75, 90 continuous run time minutes.</p> <p>NO</p>
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NO	2	NO	1	NO	NO	NO
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





Note:
Connect an optional **RZ250W** outdoor remote temperature sensor to enable the balance point tech setup option.

Note:
Static/ Barometric Bypass damper is strongly recommended on all systems for safe and efficient zoning. This product is not supplied by Pro1 IAQ.

Tech Setup Steps (Continued)		Requires ZDA250W			End of Tech Setup
Link Damper Module	Damper Default Position	Discharge Air Sensor	Discharge Air Sensor High Temperature Limit	Discharge Air Sensor Low Temperature Limit	Satisfy Setpoint
<p>This step connects the Z955W to Z260W Damper Modules. Each Z260W Damper Module will open and close the damper(s) for the zone that is configured to control. The Z260W will indicate the zone number is it configured for using the Zone 1-5 LED indicators.</p>	<p>Configure the desired damper position when all zones are satisfied. All damper modules will control the damper to this position when calls for heating, cooling and fan are complete. The Z260W will indicate the damper position using the Zone 1-5 LEDs. When the damper is closed, the Zone LED will be on solid. When the damper is open, the Zone LED will be flashing.</p>	<p>This step connects a ZDA250W to Z955W. ZDA250W is a wireless discharge air temperature sensor. Connecting a ZDA250W allows for high and low discharge air temperature limit settings. The discharge air temperature sensor is recommended for safe and efficient zoning.</p>	<p>Configure the discharge (supply) air high temperature limit to prevent overheating. When the discharge air temperature exceeds this setting, heating will de-energize and the fan will remain energized to distribute the warmed air to the zone(s) calling for heat. Heating will energize when discharge air temperature drops below the limit and the zone(s) still call for heat.</p>	<p>Configure the discharge (supply) air low temperature limit to prevent coil freezing. When the discharge air temperature is below this setting, cooling will de-energize and the fan will remain energized to distribute the cooled air to the zone(s) calling for cool.</p>	<p>This feature allows the thermostat to keep multiple stages of heat or cool energized until setpoint is satisfied.</p>
					
<p>Use - and+ to select the zone number, Zone 1-5. The Z260W for the selected zone must be in Learn Mode. Hold the Z260W Learn Button until the communication LED begins flashing steady. Press and hold the FAN key on Z955W to link and configure the Z260W for the zone number shown. Select the next zone number and repeat.</p>	<p>Use - and + to select NO or NC. When NO is selected, the damper position will be normally-open when all zones are satisfied. When NC is selected, the damper position will be normally-closed when all zones are satisfied.</p>	<p>When NO is selected, the thermostat is unable to connect to a discharge air sensor. When YES is selected, the thermostat is able to connect to a discharge air sensor ZDA250W. Press and hold the connect button on the ZDA250W until the Z955W shows FOUND DAS on the display.</p>	<p>Use the - and + to select the discharge air high temperature limit. Options are: 110, 120, 130, 140, 150, 160 discharge air temperature. 130F</p>	<p>Use - and + to select the discharge air low temperature limit. Options are: 40-50 discharge air temperature.</p>	<p>Use the ◀ or ▶ key to turn on or off.</p>
1	NO	NO	130°F	43°F	OFF

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 (7days), 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.

Factory Default Program				
Day of the Week	Events	Time	Setpoint Temperature (Heat)	Setpoint Temperature (Cool)
Weekday	Wake 	6 a.m.	70° F (21° C)	75° F (24° C)
	Leave 	8 a.m.	62° F (17° C)	83° F (28° C)
	Return 	6 p.m.	70° F (21° C)	75° F (24° C)
	Sleep 	10 p.m.	62° F (17° C)	78° F (26° C)
Saturday	Wake 	8 a.m.	70° F (21° C)	75° F (24° C)
	Leave 	10 a.m.	62° F (17° C)	83° F (28° C)
	Return 	6 p.m.	70° F (21° C)	75° F (24° C)
	Sleep 	11 p.m.	62° F (17° C)	78° F (26° C)
Sunday	Wake 	8 a.m.	70° F (21° C)	75° F (24° C)
	Leave 	10 a.m.	62° F (17° C)	83° F (28° C)
	Return 	6 p.m.	70° F (21° C)	75° F (24° C)
	Sleep 	11 p.m.	62° F (17° C)	78° F (26° C)

You can use the table below to plan your customized program schedule if using 5+1+1.

Programming Table				
Day of the Week	Events	Time	Setpoint Temperature (Heat)	Setpoint Temperature (Cool)
Weekday	Wake 			
	Leave 			
	Return 			
	Sleep 			
	Occupied			
	Unoccupied			
Saturday	Wake 			
	Leave 			
	Return 			
	Sleep 			
	Occupied			
	Unoccupied			
Sunday	Wake 			
	Leave 			
	Return 			
	Sleep 			
	Occupied			
	Unoccupied			

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.

Additional step if RZ251W indoor remote sensor is connected.

The **NEXT ZONE** key can be pressed to change the priority. The system information area of the display shows the priority to program the schedule of additional zones. The system information will display the name of the zone that is being programmed.

For Example: There is an **RZ251W** connected and it is named **REMOTE 1**. If the **NEXT ZONE** key is pressed until **REMOTE 1** is shown, then the **REMOTE 1** program can be scheduled. Each zone can be programmed independently.

4. The first zone to be programmed will be named **LOCAL**. 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. Use the  or  key to make your setpoint selection for the weekday **WAKE** period.
Press **NEXT ZONE**. Repeat steps 4 and 5 for each remaining zone. Press **NEXT ZONE** to toggle zones.
6. **NOTE:** Zones can have names such as LIVING ROOM, BEDROOM, etc.
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.

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.
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.

Additional step if RZ251W indoor remote sensor is connected.

The **NEXT ZONE** key can be pressed to change the priority. The system information area of the display shows the priority to program the schedule of additional zones. The system information will display the name of the zone that is being programmed.

For Example: There is an **RZ251W** connected and it is named **REMOTE 1**. If the **NEXT ZONE** key is pressed until **REMOTE 1** is shown, then the **REMOTE 1** program can be scheduled. Each zone can be programmed independently.

4. The first zone to be programmed will be named **LOCAL**. 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. Use the  or  key to make your setpoint selection for the weekday **WAKE** period.
6. Press **NEXT ZONE**. Repeat steps 4 and 5 for each remaining zone. Press **NEXT ZONE** to toggle zones.
NOTE: Zones can have names such as **LIVING ROOM**, **BEDROOM**, etc.
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.

Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday

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

A Note About Zone Control:

The Z955W Master Thermostat operates as Zone 1 of the Zoning System. Additional zones are controlled by RZ251W Indoor Remote Sensors. Use the Next Zone key to view the status of additional zones. The Zone Name, Ambient Temperature, System Mode & Setpoint are displayed. Control of additional zones can be given to the RZ251W of the Zone or the Z955W Master Thermostat.

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. Programmable fan is available for Zone 1, the Local (Z955W) Zone.

Specifications

Z955W Thermostat

The display range of temperature	41°F to 95°F (5°C to 35°C)
The control range of temperature	44°F to 90°F (7°C to 32°C)
Load rating	1 amp per terminal, 1.5 amp maximum all terminals combined
Display accuracy	± 1°F
Swing (cycle rate or differential)	Heating is adjustable from 0.2°F to 2.0°F Cooling is adjustable from 0.2°F to 2.0°F
Power source	18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire)
Operating ambient	32°F to +105°F (0° to +41°C)
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	32°F to +150°F (0° to +65°C)
Operating humidity	90% non-condensing maximum

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