INSTALLATION MANUAL

PRO1 IAQ

This manual covers the:

Wireless Zoning Starter Package

- **Z955W Master Zoning Thermostat**
- **Equipment Base Module**

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.

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

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?

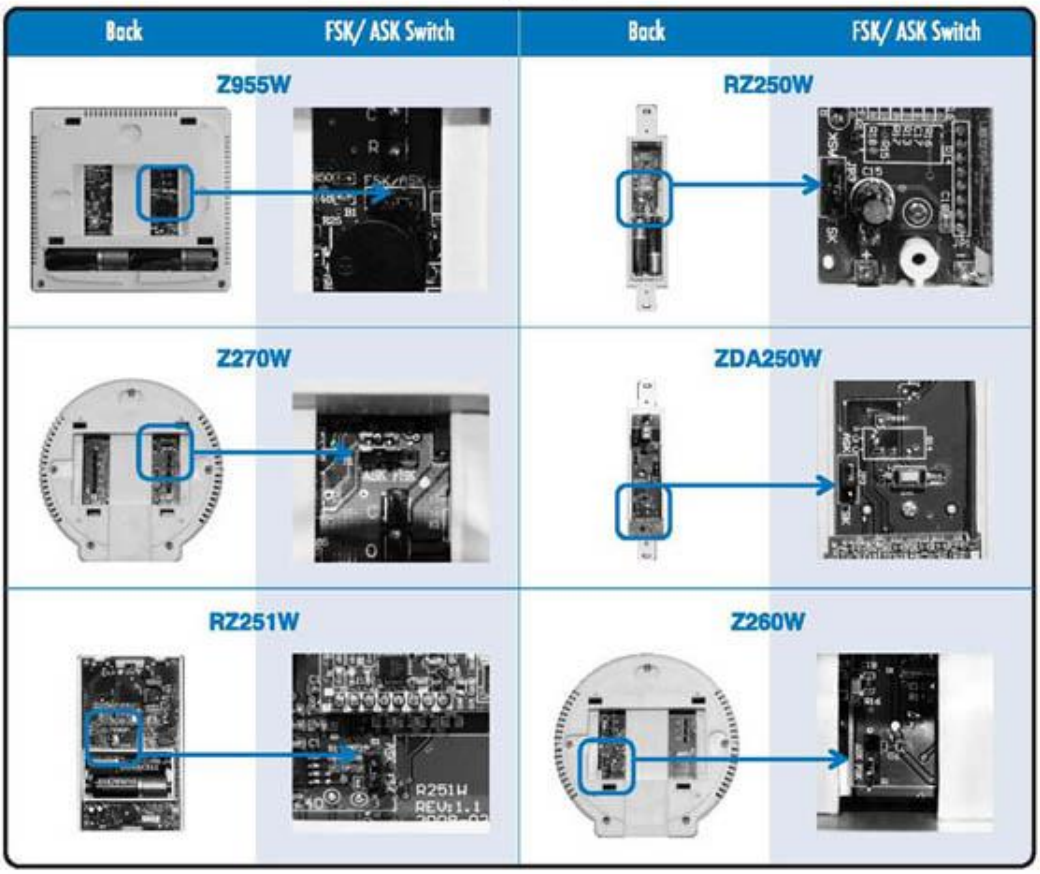
For assistance with this product please visit http://www.pro1iaq.com or call Pro1 Customer Care toll-free at 888-Pro1iaq (776-1427) during normal business hours (Mon-Fri 9 AM - 6 PM Eastern)

WIRELESS TYPE SELECTION

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.)



ESTABLISHING COMMUNICATION

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 communicaiton 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.)

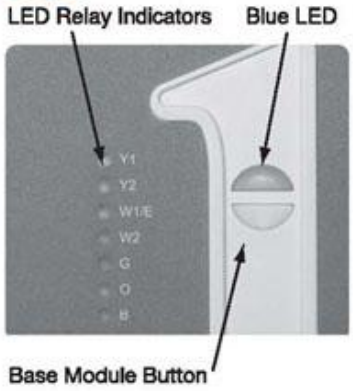
2. Hold the **Light key** (shown here) of the **Z955W** for 10 seconds, the **Blue LED** on the base module will stop flashing after communication has been established between **base module** and the **Z955W.**

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.



Step 2.

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.

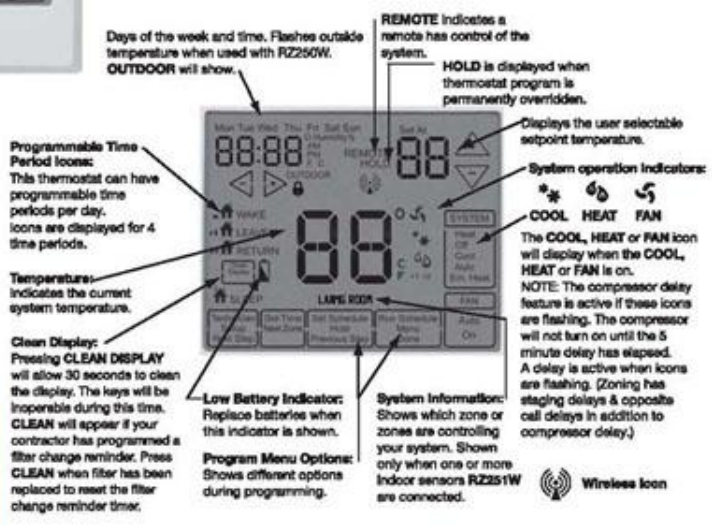
THERMOSTAT QUICK REFERENCE

Getting to know your thermostat

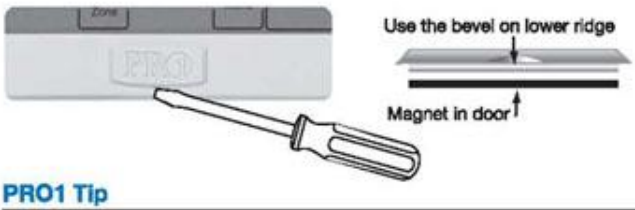
Important:
The low battery indicator is displayed when the AA battery power is low. If the user fails to replace the battery within 21 days, the thermostat display will only show the low battery indicator as a final warning before the thermostat becomes inoperable. The batteries are located on the back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

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.



Removing the private label badge



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.**

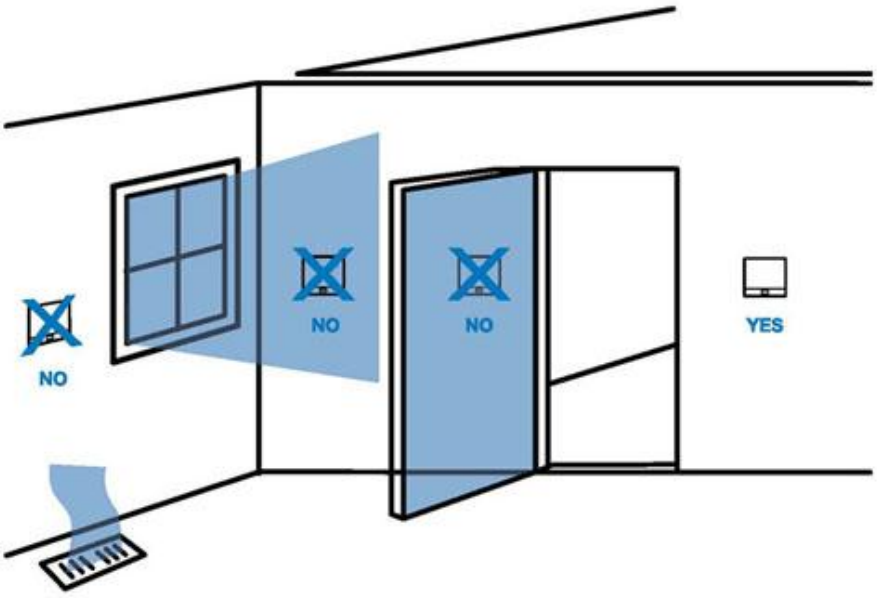
PRO1 Tip

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.

INSTALLATION TIPS

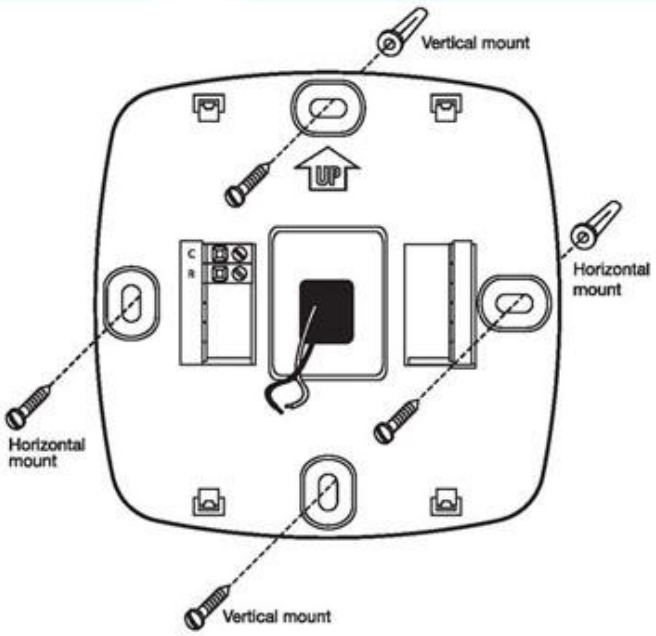
Master Thermostat Subbase Installation:

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.



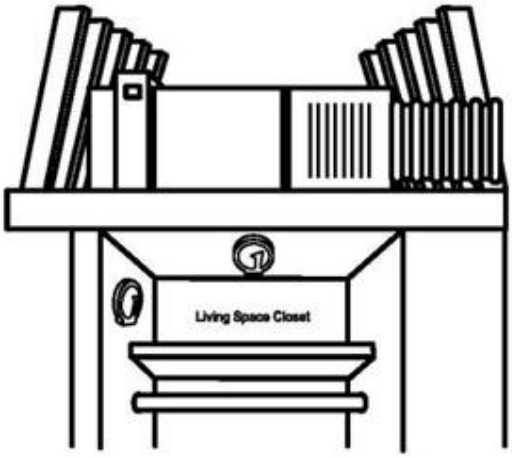
NOTE:
To insure a solid fit between the thermostat and the subbase, mount the subbase on a flat wall with the drywall anchors flush to the wall. Using the screws and drywall anchors that were provided with the thermostat.

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

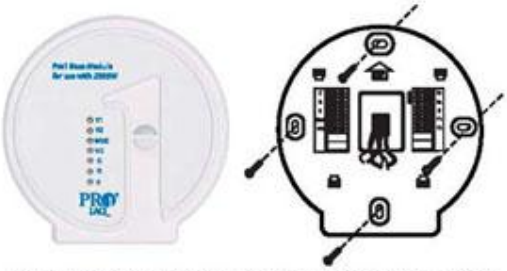
Equipment Base Module Installation Tips

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.



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

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.

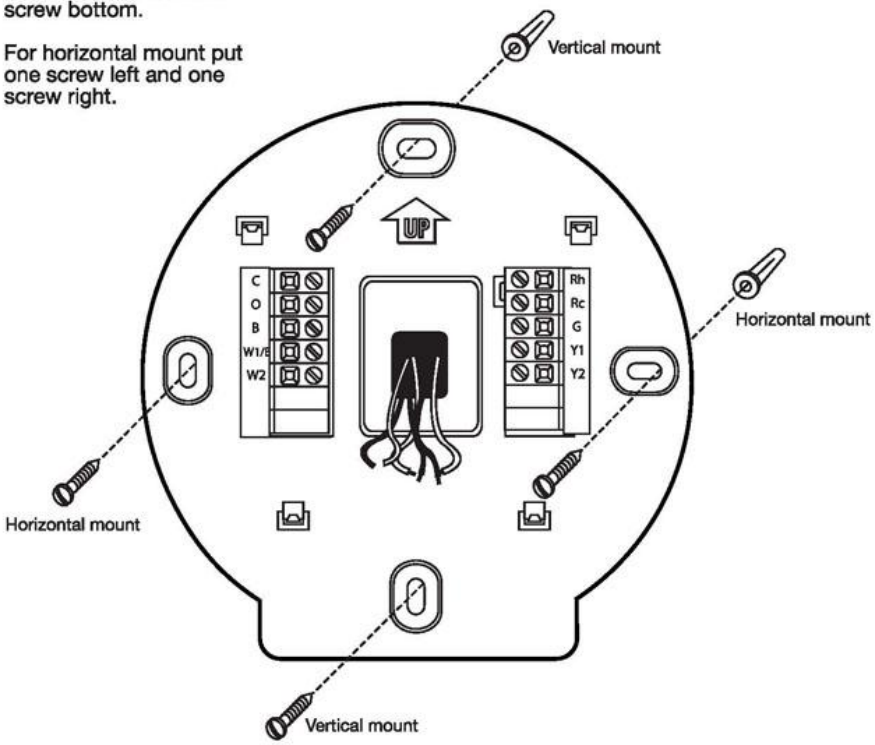
Base Module Subbase Installation

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).

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

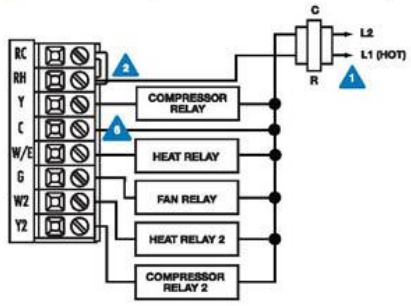
Powering the Z955W Master Thermostat

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

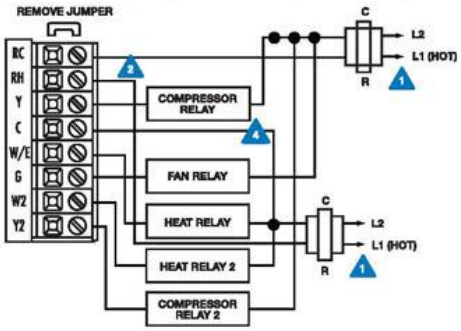
Equipment Base Module Wiring

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.

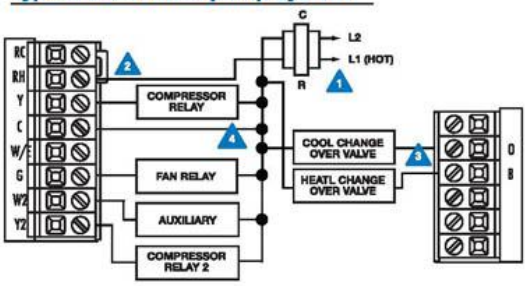
Typical 2H/2C system: 1 transformer



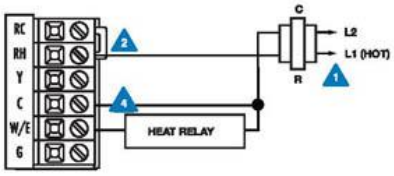
Typical 2H/2C system: 2 transformer



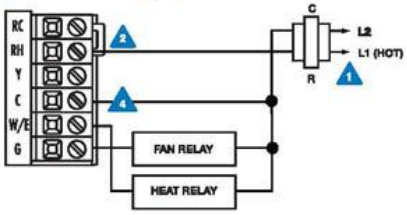
Typical 3H/2C heat pump system



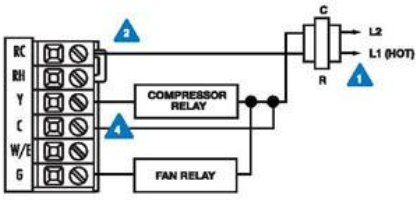
Typical heat-only system



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 Off 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 thedisplay. 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
This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.	This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.	Select F for Fahrenheit temperature read out or select C for Celsius read out.	You can select either a 12 or 24 hour clock setting.	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.	You can configure this thermostat to have a 7 day program, a 5+1+1 program or nonprogrammable.	The display light can be configured to stay on at all times or come on when any key is pressed. NOTE: THERMOSTAT MUST BE HARDWIRED ONLY. Keeping the display light continually "ON" will greatly reduce battery life.
LCD Will Show						
						
Adjustment Options						
Use the ◁ or ▷ key to select the maximum heat setpoint.	Use the ◁ or ▷ key to select the minimum cool setpoint.	°F for Fahrenheit °C for Celsius	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 when the light key or any button on screen is pressed. ON configures the display light to stay on. Use the ◁ or ▷ key to turn on or off.
Factory Default Settings						
90 °F	44 °F	°F	12 Hour Clock	ON	5d	OFF

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 you phone number in the display. You can choose Off 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 ◁ or ▷ key to select the desired number and the ◁ or ▷ 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 ◁ 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.	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.
Factory Default Settings						
OFF	ON	OFF	GAS	OFF	2 Stages	OFF

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**
Enables the use of an outdoor sensor RZ250W. Connecting a RZ250W allows for a Balance Point settings and will also display outdoor temperature. See RZ250W user guide for more information.	This step connects RZ251W to Z95SW. Z95SW is Zone 1. RZ251W is the wireless zone thermostat for Zones 2-5. Each Zone will require one RZ251W.	Turns on the heat for 10 minutes each hour if unable to communicate with the Z95SW master thermostat if there has been a call for heat in the last 24 hours.	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. 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.	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. Note: Only shows up if Heat Pump is set to YES. Outdoor Sensor is turned ON, and GAS Auxiliary is turned ON.	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. Note: Only shows up if Heat Pump is set to YES and Outdoor Sensor is turned ON and GAS Auxiliary is turned OFF.	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 ther current cycle after the balance point run time has expired.
						
When NO is selected the thermostat is unable to connect to an outdoor remote sensor RZ250W. When YES is selected the thermostat is able to connect to an outdoor remote sensor RZ250W. Press and hold connect button on RZ250W until the Z95SW says FOUND OUTDOOR on display.	The number shown represents the zone, 2-5. Use ◁ or ▷ to select the zone you wish to connect. The zone setting on the Z95SW and the RZ251W must be the same to connect. See the RZ251W Installation Manual for detailed RZ251W connection information.	YES enables freeze protection NO disables freeze protection	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.	10, 20,30, 35, 40, 45, 50 outdoor temperature balance point setting. NO	10, 20,30, 35, 40, 45, 50 outdoor temperature balance point setting. NO	YES 15, 30, 45, 60, 75, 90 continuous run time minutes. NO
NO	2	NO	1	NO	NO	NO

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

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

TECHNICIAN SETUP MENU

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**
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 is configured to control. The Z260W will indicate the zone number is it configured for using the Zone 1-5 LED indicators.	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.	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.	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.	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.	This feature allows the thermostat to keep multiple stages of heat or cool energized until setpoint is satisfied.
					
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.	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.	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.	Use the – and + to select the discharge air high temperature limit. Options are: 110, 120, 130, 140, 150, 160 discharge air temperature. 130F	Use – and + to select the discharge air low temperature limit Options are: 40-50 discharge air temperature.	Use the ◁ or ▷ key to turn on or off.
1	NO	NO	130°F	43°F	OFF

PROGRAMMING THE THERMOSTAT

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)

PROGRAMMING THE THERMOSTAT

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.
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.

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 addtional 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

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

INSTALLATION MANUAL
ZDA250W ZONING APPLICATION

This manual covers the following models:
- **ZDA250W** (Requires Z955W - Master Zoning Thermostat)

Congratulations on purchasing a PRO1 Wireless Zoning System.

This Discharge Air Sensor was designed to the highest reliability and ease of use standards. Thank you for choosing Pro1.

Caution:
Equipment damage hazard
Do not operate the cooling system if the outdoor temperature is below 50° F (10° C) to prevent possible compressor damage.

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Installation and Specifications	3
Contact Us and Warranty Registration	4

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)

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

ESTABLISHING COMMUNICATION

Remember

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.

Inside of ZDA250W **FSK/ ASK Switch**

Connecting to the Master Zone Thermostat

Easy, two step communication link set up.

1. The **Z955W** Master Thermostat Tech setting for the outdoor remote sensor must be set to **YES**. See the **Z955W** manual for instructions.
2. While the **Z955W** is on the **Discharge Air Sensor** screen hold down the connection button on the inside of the **DAS** until the **Z955W** shows the letters **YE** and says **Found DAS**.

Connection button located inside the **ZDA250W**

Important:

DO NOT press the connection button again after Step 2 (above) has been completed. Holding the button a second time will break the communication link and the connection steps will have to be repeated.

Example Step 2.
Z955W Found Discharge Air Sensor Screen

Wireless Range

Range between the RZ250W and the Z955W master thermostat is up to 100 feet with no obstructions and up to 50 feet in standard residential metal, brick, and concrete construction.

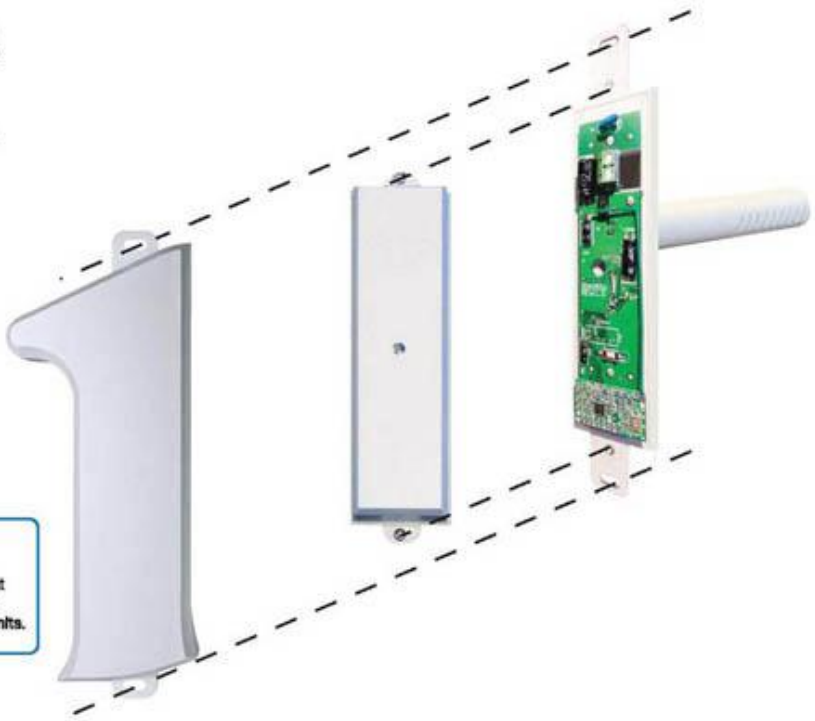
Mounting the Discharge Air Sensor

Install on the supply duct more than 3 feet above the heat exchanger coil and below the first zone damper, in relation to air flow.

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

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

Slide Pro1 **Discharge Air Sensor** cover over unit once installed.



NOTE:
Refer to Master Thermostat (Z955W) Technician Setup Menu to set High & Low limits.

Specifications

Temperature Range	-4° to 160°F (-20° to 71°C)
Temperature accuracy	± 1°F
Power source	18 - 30 VAC, NEC Class II 50/60 Hz for Hardwire (Common Wire)
Transmission	Every 5 minutes
Frequency	916 MHz

INSTALLATION MANUAL
CONTACT US AND WARRANTY INFORMATION

Contact Us Information

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

Warranty Registration:

Your new Pro1 thermostat has a 5 year limited warranty. You must register your warranty within 60 days of installation. You can register your new thermostat in 2 ways.

① Go to www.pro1iaq.com, select warranty registration and fill out a short registration form.

- or -

② Complete the form below and mail it to the address shown.

Pro1 IAQ Warranty Registration:

Name: _____

Address: _____

_____

City: _____

State: _____

Zip: _____

Thermostat Model: _____

Date Installed: _____

Complete form and mail to:

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

INSTALLATION MANUAL

RZ250W ZONING APPLICATION

PRO1 IAQ

This portion of the manual covers the following models:

- **RZ250W** (Requires Z955W)

Congratulations on purchasing a PRO1 Wireless Zoning System.
This remote sensor was designed to the highest reliability and ease of use standards. Thank you for choosing Pro1.

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Caution:
Equipment damage hazard
Do not operate the cooling system if the outdoor temperature is below 50° F (10° C) to prevent possible compressor damage.

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.

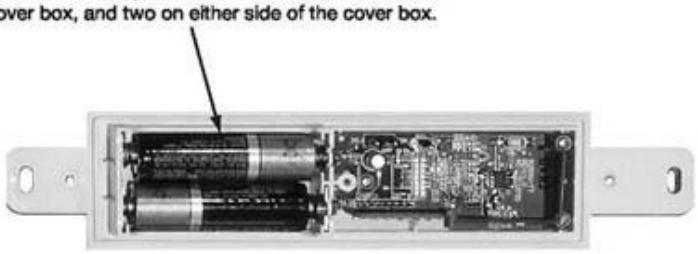
Una versión española de este manual puede ser descargada en www.pro1iaq.com

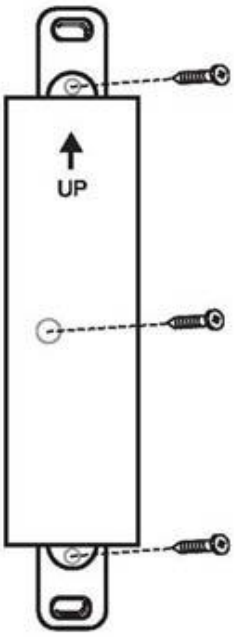
Need Help?

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)

Installing Batteries

To install 2 AA batteries remove the three screws shown in the diagram. One in the middle of the inside cover box, and two on either side of the cover box.





Note about low batteries:
When the outdoor battery needs to be changed the **Z955W Master Thermostat** will flash **LOW BAT OUTDOOR** as seen on the left.

PRO1 TIP

and this **RZ250W**

Before putting the inside cover back on, proceed to the next page to establish a connection between the **Z955W Master Thermostat**

ESTABLISHING COMMUNICATION

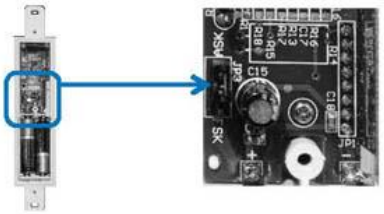
Remember

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.

(*ASK is required to connect to a T955W or T955WH.)

Inside of RZ250W **FSK/ ASK Switch**



Connecting to the Master Thermostat

Easy, two step communication link set up.

1. The **Z955W** Master Thermostat Tech setting for the outdoor remote sensor must be set to **YES.** See the **Z955W** manual for instructions.

2. While the **Z955W** is on the **Outdoor Sensor** screen hold down the connection button on the inside of the **Outdoor Remote** until the **Z955W** shows the letters **YE** and says **Found Outdoor.**

Connection button
located inside the **RZ250W**

Example Step 2.
The Z955W, T955W, & T955WH Found Outdoor Screen.

Important:
DO NOT press the connection button again after Step 2 above has been completed. Pressing the button a second time will break the communication link and the connection steps will have to be repeated.

PRO1 TIP

For installations where the temperature will be frequently below freezing, battery life may be much better with 2 AA lithium batteries.

Wireless Range

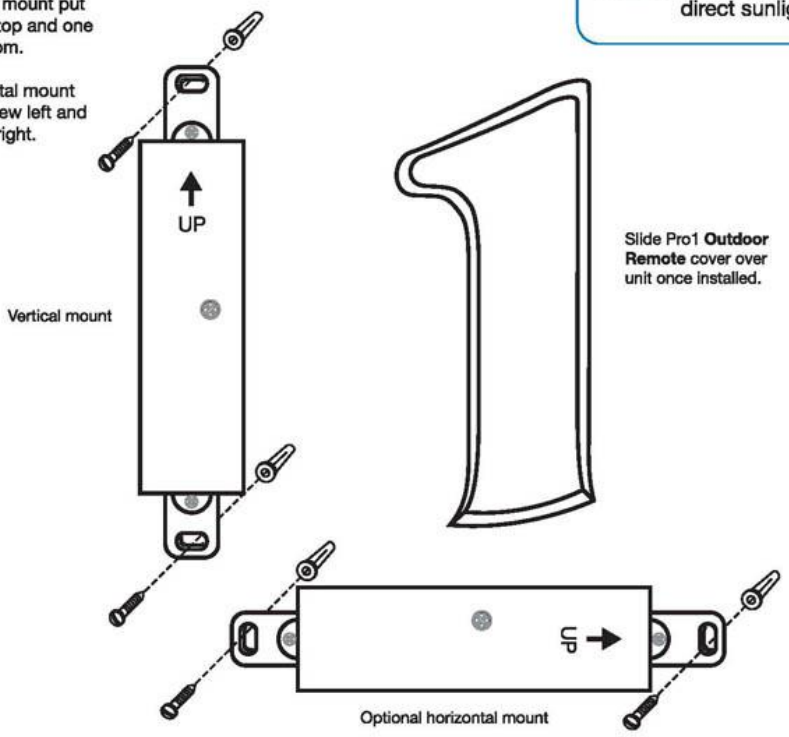
Range between the RZ250W and the Z955W master thermostat is approximately100 feet with no obstructions and approximately 50 feet in standard residential metal, brick, and concrete construction.

Mounting the Outdoor Remote Sensor

Important:
Do not install in direct sunlight.

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

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



SPECIFICATIONS & CONTACT INFORMATION

Specifications

Temperature Range	-4° to 140°F (-20° to 60°C)
Temperature accuracy	± 1°F
Power source	Battery Power from 2 AA 1.5 V Batteries
Transmission	Every 5 minutes
Frequency	916 MHz

Contact Us

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INSTALLATION MANUAL

RZ251W ZONING APPLICATION

This portion of the manual is used to setup additional zones:

- **RZ251W**
  (Requires Z955W Master Zoning Control and Z260W Wireless Damper Modules)

Congratulations on purchasing a PRO1 Wireless Zoning System.
This Zone Thermostat was designed to the highest reliability and ease of use standards. Thank you for choosing Pro1.

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

Caution:
Equipment damage hazard
Do not operate the cooling system if the outdoor temperature is below 50˚ F (10˚ C) to prevent possible compressor damage.

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)

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?

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Getting to know your RZ251W Zone Thermostat

1. **LCD**
2. **Glow in the Dark Light Button***
3. **Temperature Setpoint Keys****
4. **Remote Name**
5. **Operation Keys****

* **NOTE ABOUT THE LIGHT BUTTON:** This button is used to light up the display. DO NOT hold the light button down for longer than 3 seconds or you will enter the technician setup screens. If you inadvertently enter the tech setup press and release the light button a second time to exit the tech screens.

** **NOTE ABOUT SETPOINT, RUN, HOLD & CLEAN KEYS:** These keys will only be shown if they have been turned on in Technician Setup menu.

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.

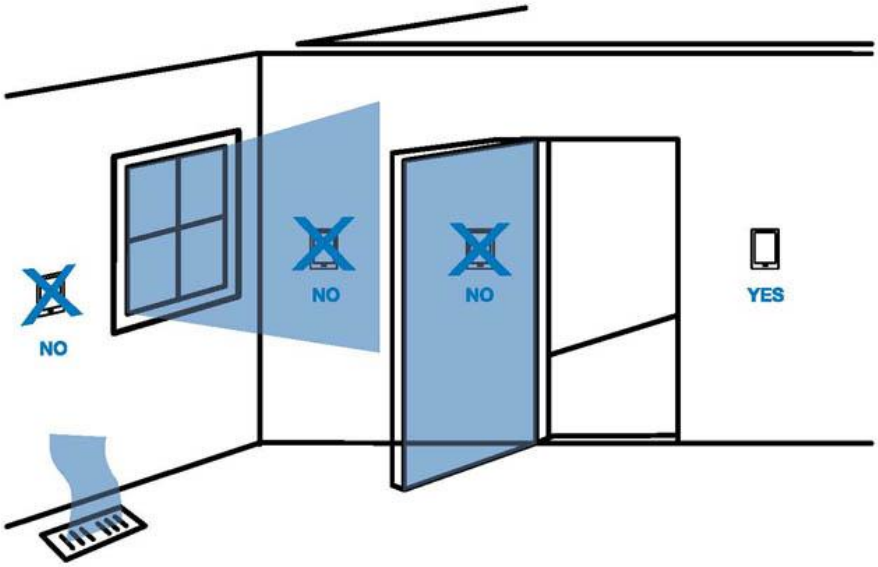
Wireless Range

Range between the RZ251W and the Z955W master thermostat is approximately 100 feet with no obstructions and approximately 50 feet in standard residential metal, brick, and concrete construction.

INSTALLATION TIPS

Remote Locations

The remote should be mounted or placed approximately 4 to 5 feet above the floor.
Select an area with average temperature and good air circulation.



Do not mount or place Zone Sensors in following 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 appliances could radiate heat
- Do not set it next to or on hot appliances
- Do not put it in your pocket or hold in your hands for a long period of time. Body heat will distort the temperature reading.

Wireless Range

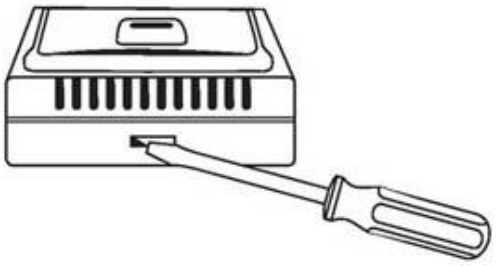
Range between the a remote and a master thermostat is approximately 100 feet with no obstructions and approximately 50 feet in standard residential metal, brick, and concrete construction.

MOUNTING OPTIONS

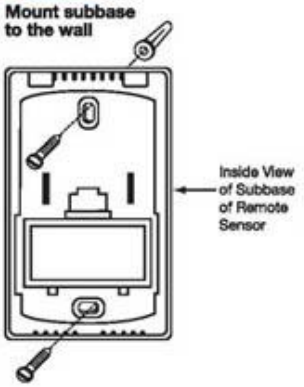
Wall Mount - Permanent

** It is Best for the remote to stay in the zone it is sensing; permanent wall mounting is strongly recommend.

1. Remove the RZ251W from the subbase.

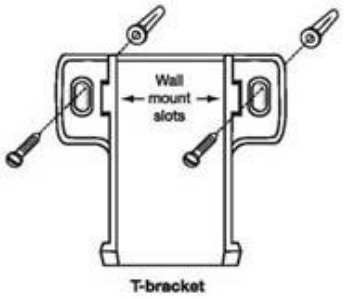


2. Mount subbase to the wall

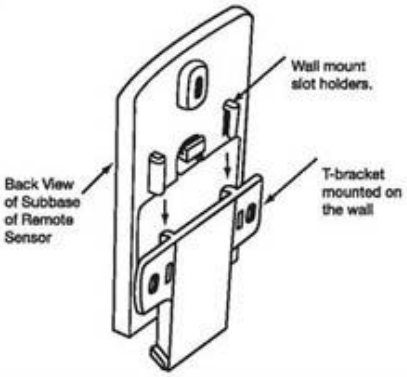


Wall Mount - Removeable

1. Mount T-bracket on the Wall.

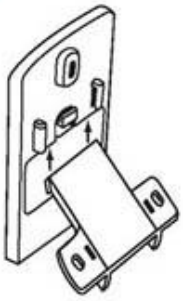


2. Slide the Remote Sensor over the mounted T-bracket.



Desk or Counter Option

1. Slide the T-bracket up into the slot holders.



2. T-bracket will stop on the top of the slot holders.

INSTALLING BATTERIES

Installing Batteries for Temporary Wall Mount or Table Placement

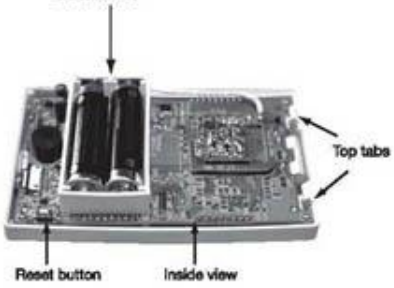
1. Use the finger tab on the back of the remote to remove the battery door.

2. Once you have removed the door from the back of the remote, insert 2 AA Alkaline batteries and replace the battery door.

Inserting Batteries for Permanent Wall Mount

1. Remove the RZ251W from the subbase. The RZ251W is held on the subbase by a plastic tab on the bottom of the remote sensor. Push in with a small flat head screwdriver to remove the RZ251W from the subbase.

2. Once you have removed the RZ251W from the subbase, insert 2 AA Alkaline batteries.



3. Attach the RZ251W to the subbase by aligning the two top tabs and then close as shown.

ESTABLISHING COMMUNICATION

Remember

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

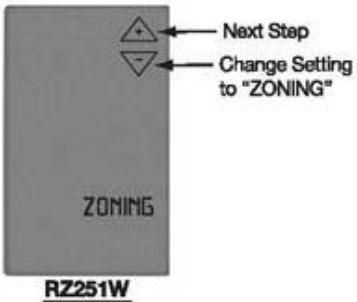
All components must be set to the same position for wireless communication.

Back of RZ251W

FSK/ ASK Switch

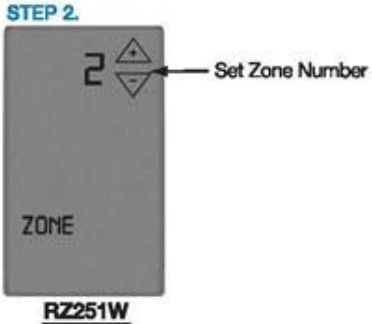
Connecting to Z955W Master Zone Thermostat

STEP 1.



RZ251W

STEP 2.



RZ251W

Easy communication link set up:

1. The RZ251W Must be configured to "ZONING" in the first Tech Setup Step. See next page.
2. In the next Tech Setup Step, you select the Zone Number that the RZ251W will be used to measure/control. (See page 7 for steps to enter Tech Setup.) This will be Zones 2-5. (The Z955W Master Zone Thermostat is always Zone 1)
3. Then set the Z955W Master Zone Thermostat Zone number to match the RZ251W. See the Z955W Installatio Manual, Tech Setup Step "Zone Remote Sensor".
4. With both RZ251W and Z955W set to the same zone in their setup steps, press and hold the light button on the RZ251W until the Wireless Icon flashes, approximately 3 seconds.
5. The Z955W should now show the temperature of the RZ251W, the Zone number it's configured for(Example-2), and it's name. If it hasn't been named yet, it will show REMOTE 1(default).

STEP 3.

Z955W

STEP 4.

RZ251W

STEP 5.

Z955W

Technician Setup Menu

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

1. Press and hold the **LIGHT** button for 3 seconds. This 3 second delay is designed so that homeowners do not accidentally access the installer settings.
2. Configure the installer options as desired using the table below.
3. Use the ⚠ key to move to the next tech setup screen.

   Use the ▽ key to make adjustments to the settings.

   Note: Press and release the light button when you want to exit the tech setup screens.

Tech Setup Steps

System Select	Zone Selection	Remote Name	Show Set
This step configures the RZ251W to connect a wireless THERMOSTAT (T955WH), or a wireless ZONING system (Z955W).	Select the zone number that the remote will be used to measure/control. Only one RZ251W can be used for each zone, for a total of up to 4 remotes. For wireless zoning the Z955W is Zone1 and RZ251W's are used to control zones 2-5.	Selects a Name for the remote. This name will appear on the Z955W when the Z955W is displaying the remote's temperature.	THERMOSTAT Enabling this feature will allow the remote to temporarily override the T955WH setpoint. ZONING Enabling this feature will allow the remote to control the SYSTEM mode, FAN mode, and setpoint of the zone.
LCD Will Show			
			
Adjustment Options			
THERMOSTAT The RZ251W remote is configured to link to a wireless thermostat T955WH. ZONING The RZ251W remote is configured to connect to wireless zoning system Z955W.	THERMOSTAT Zone 1, 2, 3, 4 ZONING Zone 2, 3, 4, 5 The Zone Number on the RZ251W and the thermostat must match in order to establish a connection. Press and hold the light key to link the thermostat.	Remote 1, Remote 2, Remote 3, Remote 4, Bedroom 1, Bedroom 2, Bedroom 3, Bedroom 4, Kitchen, Living Room, Hall Family Room, Dining Room, Office, Study, Den, Loft, Upstairs.	N The Remote is used as a sensor only and cannot adjust the setpoint. The zone is controlled by the thermostat interface. Y Enables the temperature adjustment keys. Also enables the SYSTEM and FAN mode keys for Wireless Zoning.
Factory Default Settings			
THERMOSTAT	ZONE 1	REMOTE 1	Y

TECH SETUP STEPS CONTINUED ON THE NEXT PAGE

TECHNICIAN SETUP MENU

Tech Setup Steps (Continued from previous page)

Room Temperature Calibration	F° or C°	Low Temperature Setpoint Limit	High Temperature Setpoint Limit
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 sets the display temperature to read either Fahrenheit or Celsius.	This feature allows you to set a minimum cool setpoint value. The setpoint temperature cannot be lowered below this value.	This feature allows you to set a maximum heat setpoint value. The setpoint temperature cannot be raised above this value.
LCD Will Show			
			
Adjustment Options			
You can adjust the room temperature display to read -4°F to +4°F above or below the factory calibrated reading.	F for Fahrenheit C for Celsius	Use the ▽ key to select the minimum cool setpoint.	Use the ▽ key to select the maximum heat setpoint.
Factory Default Settings			
0	F	44°F	90°F

Note: Tech setup cannot be entered if the **RZ251W** is in temporary hold mode. Press the **RUN** key to exit temporary hold.

SPECIFICATIONS & CONTACT INFORMATION

Specifications

RZ251W Remote Sensor

The display range of temperature	32°F to 99°F (5°C to 35°C)
The control range of temperature	44°F to 90°F (7°C to 32°C)
Display accuracy	± 1°F
Power source	Battery power from 2 AA Alkaline batteries
Operating temperature	32°F to +105°F (0° to +41°C)
Operating humidity	90% non-condensing maximum
Dimensions of thermostat	2.75"W x 4.5"H x 1.375"D
Frequency	916 MHz
Sending Data	Every 5 minutes
Reading Temperature	Every 60 seconds

Contact Us

Pro1 IAQ Inc.
1111 S. Glenstone
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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

INSTALLATION MANUAL

Z260W ZONING APPLICATION

This portion of the manual is used to setup damper modules:

- **Z260W**
  (Requires Z955W for Master Zone (zone 1) and RZ251W for additional Zones)

Congratulations on purchasing a PRO1 Wireless Zoning System.
This Zone Thermostat was designed to the highest reliability and ease of use standards. Thank you for choosing Pro1.

Table of Contents	Page
Quick Reference	2
Wiring	3
Establishing Communication	4
Specifications & Contact Us	5

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

Caution:
Equipment damage hazard
Do not operate the cooling system if the outdoor temperature is below 50˚ F (10˚ C) to prevent possible compressor damage.

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)

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.

Z260W Damper Module(s)

The Z260W Damper Module is designed to operate with 24VAC 2-wire and 3-wire zone dampers.

The Damper Module(s) must be hardwired with 24VAC connected to R and C.

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

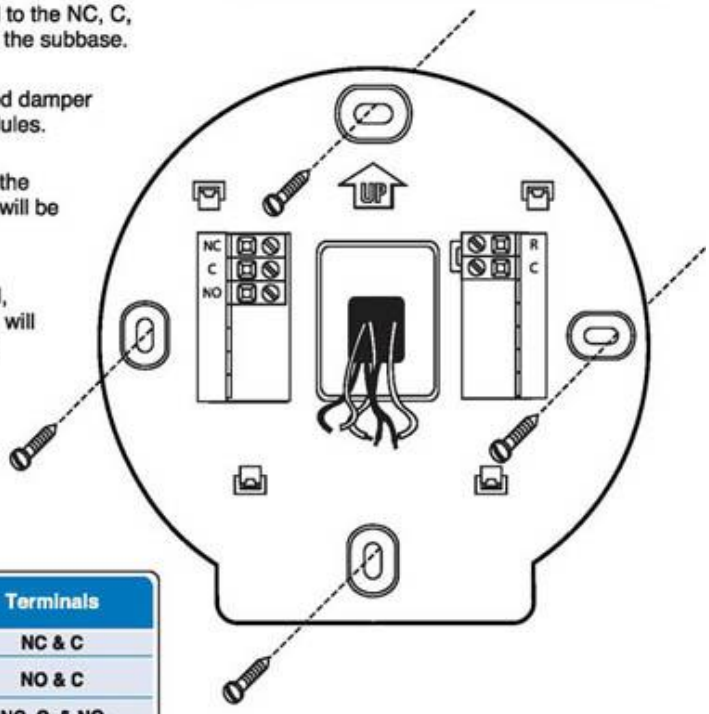
The zone damper will be connected to the NC, C, and NO terminals on the left side of the subbase.

The Z955W will transmit the required damper position to the Z260W Damper Modules.

When the damper position is open, the ZONE LED will be flashing. 24VAC will be supplied to NC and C terminals.

When the damper position is closed, the ZONE LED will be solid. 24VAC will be supplied to NO and C terminals.

Wire the terminals according to the damper type used.
(See page 3 for instructions)



Damper Type	Terminals
Normally-Closed, Power-Open	NC & C
Normally-Open, Power-Close	NO & C
Power-Open/ Power-Close	NC, C, & NO

NOTE: To link damper module(s) to a desired zone, see page 4 for establishing communication.

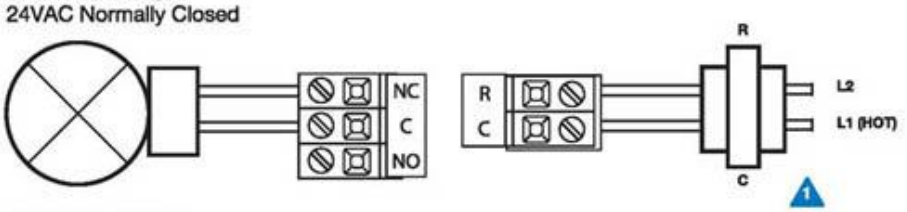
NOTE:
Static/ Barometirc Bypass damper is strongly recommended on all systems for safe and efficient zoning. This product is not supplied by Pro1 IAQ.

Z260W Damper Module(s)

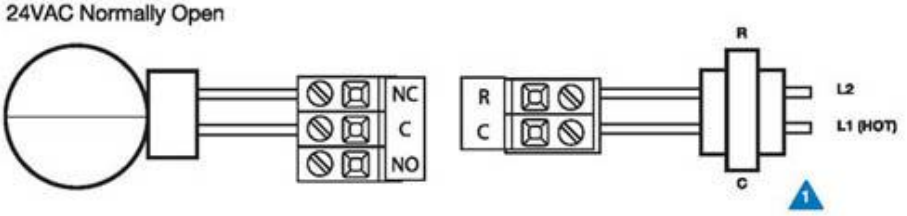
1 24VAC Transformer

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

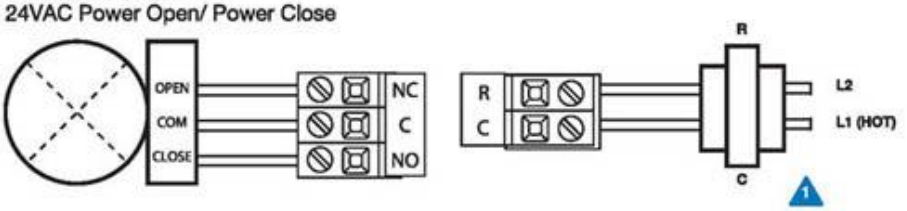
Motorized Damper
24VAC Normally Closed



Motorized Damper
24VAC Normally Open



Motorized Damper
24VAC Power Open/ Power Close



NOTE: Multiple Z260W Damper Modules and zone dampers can be powered by one 24VAC transformer. It may be necessary to use a transformer separate from the HVAC system transformer. Multiple 24VAC motorized dampers can be controlled by one Z260W Damper Module.

ESTABLISHING COMMUNICATION

Remember

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.

Back of Z260W

FSK/ ASK Switch

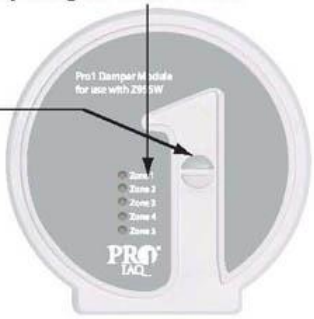
Establishing Communication between Z955W and Z260W Damper Module

Once the Damper Module(s) are hardwired/ powered, follow the steps below to link their communication with the Master Thermostat. Keeping in mind…

1. If you only need one Damper Module to control the Master Zone1, it is already factory linked to the Master Thermostat, out of the box.
2. If you need multiple Damper Modules to control a single zone, they all need to be linked to that particular zone with the same procedure.
3. Each Damper Module will open and close the damper(s) for the zone that it is configured to control.
4. Each Z260W will indicate the Zone Number it is configured for by using the Zone 1-5 LED indicators.

Linking Procedure

To put the Damper Module(s) in learn mode;
Hold the Z260W Learn Button until it's communication LED begins flashing steady.



With the Z955W enter Tech Setup Mode, then proceed to the Link Damper Module Step (See page 16 of the Z955W Master Thermostat Installation Manual). This step connects the Z955W to the Z260W Damper Module(s). Use the < - > and < + > to select the Zone Number, Zone 1-5.

Step 1.

With the desired Zone Number selected on the Z955W and the Z260W Damper Module(s) in Learn Mode (LED flashing), press and hold the FAN key on the Z955W to Link and Configure the Z260W(s) for the Zone Number shown the Z955W.

Step 2.

SPECIFICATIONS & CONTACT INFORMATION

Specifications

Damper Module

Load rating	10 amp per terminal
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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USER MANUAL

FCC Statement:

This equipment has been tested and found to comply with the limits for Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does
cause harmful interference to radio or television reception, which can be determined by turning the equipment
off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

IC Statement:

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio
exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne
doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage
radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Note: Modifications to this product will void the user's authority to operate this equipment.