RZ251W ZONING APPLICATION

PRO1 IAQ®

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.

Table of Contents

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?

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)

Getting to know your
RZ251W Zone Thermostat

Set At
74
°74°
F
REMERE 1
Fan | Run | System
Auto On | Clean Hold | Heat Off Cool

PRO1

① **LCD**

② **Glow in the Dark Light Button** *

③ **Temperature Setpoint Keys** **

④ **Remote Name**

⑤ **Operation Keys** **

Setpoint Temperature
Displays the user selectable setpoint temperature.

Wireless Icon

Temperature
Indicates the current ambient temperature.

Run Key
RUN only shows if the remote sensor setpoint has been changed. Pressing **RUN** will cancel the temporary setpoint hold. Note: The **SHOW SET** must be set to **YES** in tech setup menu before the **RUN** key will be shown in the display.

Set At
88
HOLD
88
REMOTE 1
Fan | Run | System
Auto On | Clean Hold | Heat Off Cool

The Setpoint Adjustment and Operational Keys will only appear if enabled at the 'Show Set' step in Tech Setup.

Low Battery Indicator
Replace batteries when this indicator is shown.

Remote Label
Each indoor remote sensor can be labeled. The label options can be found during tech setup.

Clean Key
Pressing the **CLEAN** key will allow 30 seconds to clean the display. The keys will be inoperable during this time. NOTE: The Show Set mode must be set to **YES** in tech setup menu before the **CLEAN** key will be displayed.

HOLD Key
Hold only shows if the remote sensor setpoint has been changed. Pressing **HOLD** will set a permanent setpoint hold.

NOTE: The show set must be set to **YES** in Tech Setup Menu before the **HOLD** key will be displayed.

* **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.

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.

NO

NO

NO

YES
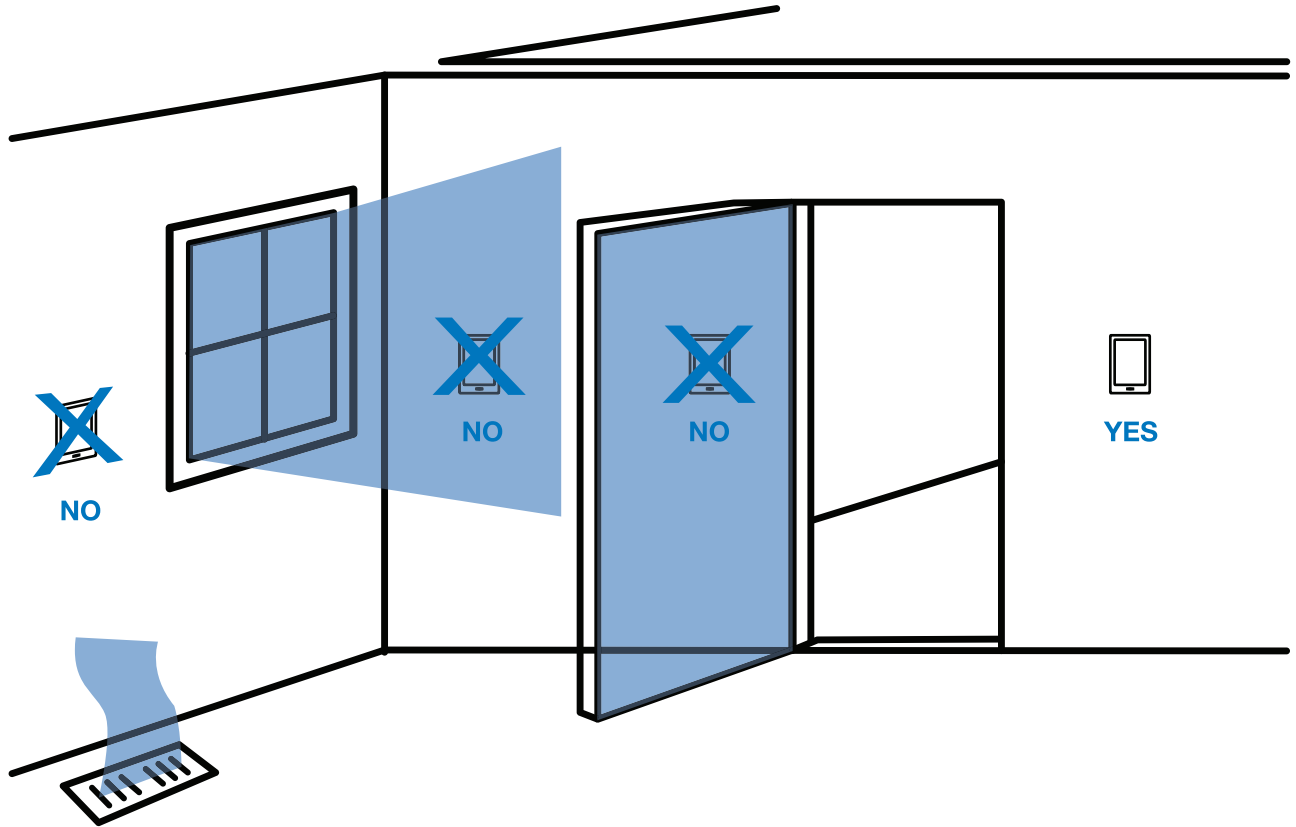
Do not mount or place Zone Sensors in following locations:
- Close to hot or cold air ducts
- That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where appliances could 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.

Wall Mount - Permanent

** It is Best for the remote to stay in the zone it is sensing; permanent wall mounting is strongly recommend.
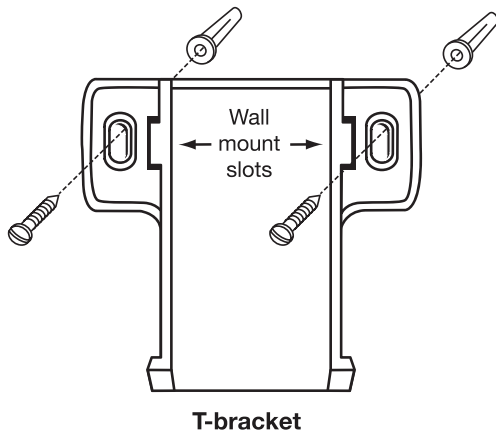
1 Remove the RZ251W from the subbase.
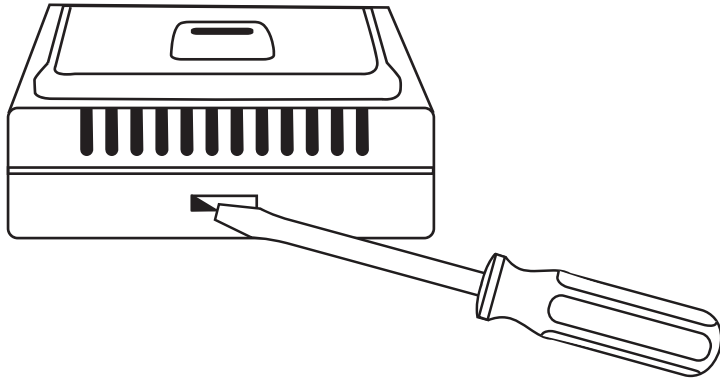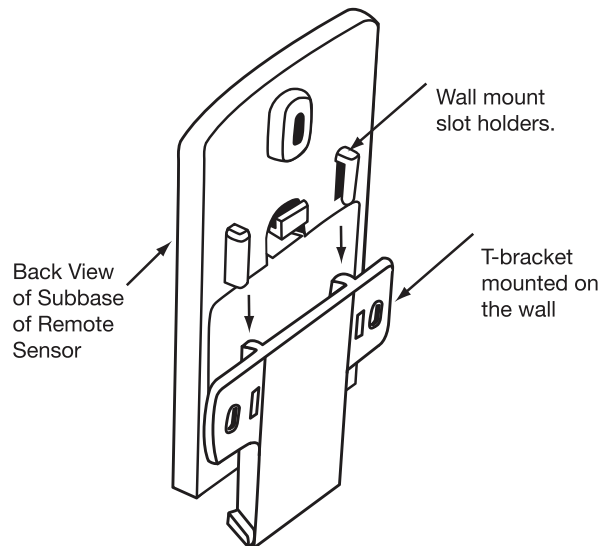
2 Mount subbase to the wall

Inside View of Subbase of Remote Sensor
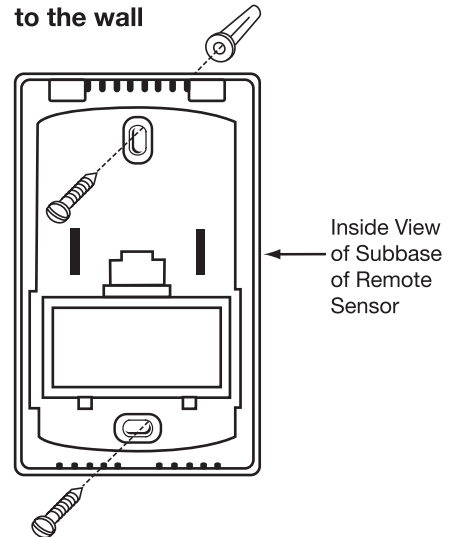
Wall Mount - Removeable

1 Mount T-bracket on the Wall.

Wall mount slots

T-bracket

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

Wall mount slot holders.

Back View of Subbase of Remote Sensor

T-bracket mounted on the wall

Desk or Counter Option

1 Slide the T-bracket up into the slot holders.
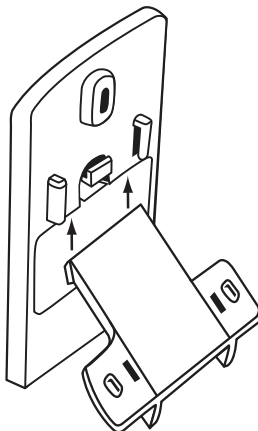
2 T-bracket will stop on the top of the slot holders.
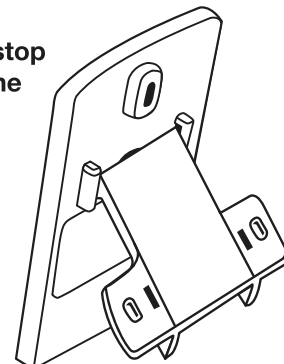
Installing Batteries for Temporary Wall Mount or Table Placement

1 Use the finger tab on the back of the remote to remove the battery door.
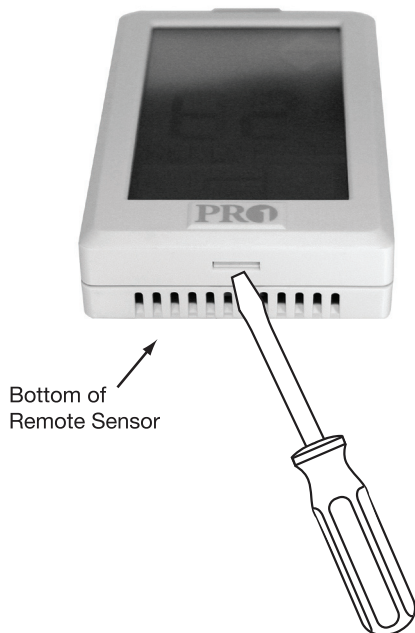
2 Once you have removed the door from the back of the remote, insert 2 AA Alkaline batteries and replace the battery door.
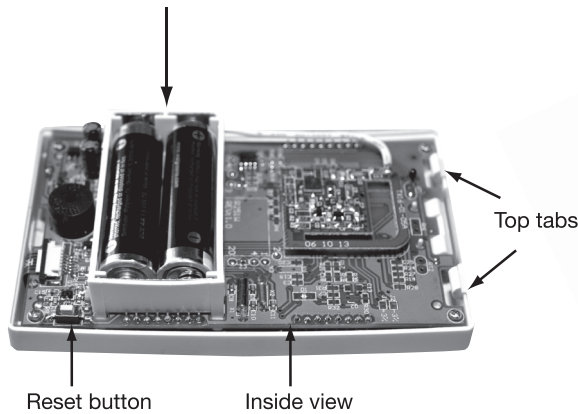
Inserting Batteries for Permanent Wall Mount

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.

Top tabs

Reset button   Inside view

Swing closed
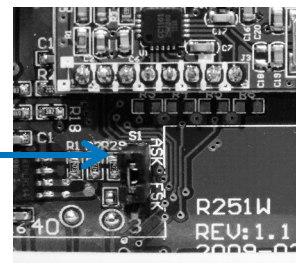
Bottom of
Remote Sensor
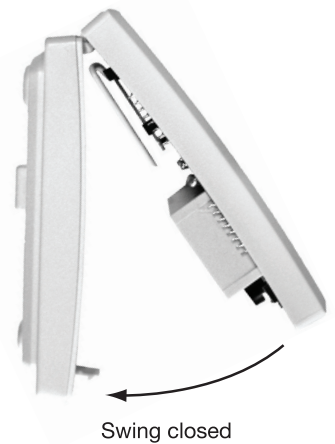
Remember

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.
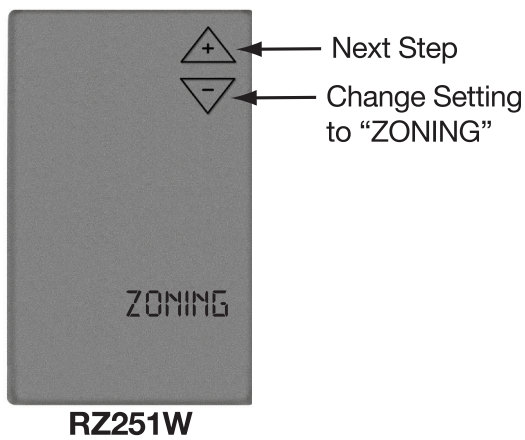
Back of RZ251W

FSK/ ASK Switch

Connecting to Z955W Master Zone Thermostat

STEP 1.

Next Step

Change Setting to "ZONING"

RZ251W

STEP 2.

Set Zone Number

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).
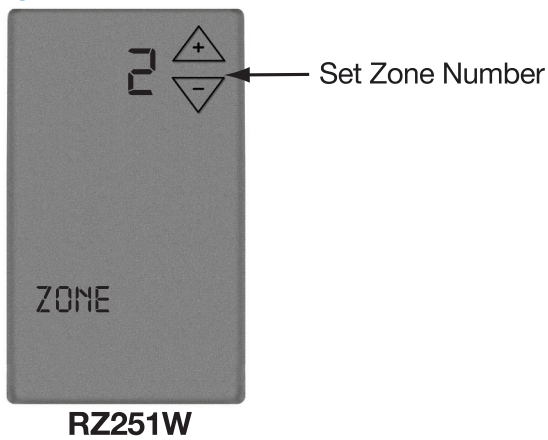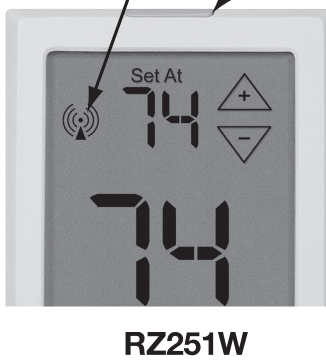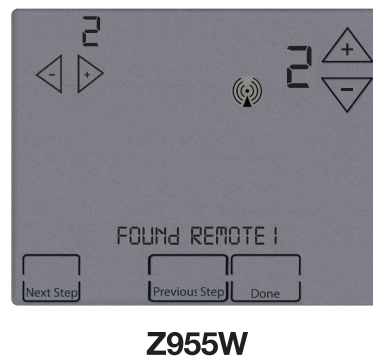
STEP 3.

Set Zone Number

Z955W
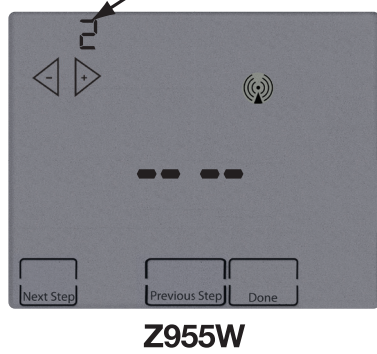
Wireless icon

Light button

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

THERMSTAT	1 ZONE	REMOTE 1	Y SHOW SET

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 ➡

7

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

0 △▽ CALIbRATE	F △▽ FAHRENHET	44 △▽ LOW LIMIT	90 △▽ HIGH LIMT

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	44ºF	90ºF

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

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

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