

# PRO R751WO

PRO1 Technologies

P.O. Box 3377  
Springfield, MO 65804

Toll Free : 888-776-1427  
Web: www.pro1iaq.com

Hours of Operation: M-F 9AM - 6PM Eastern



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This manual covers the following models:  
• **R751WO**(For use with T755WHO PROsync wireless system).

**Congratulations on purchasing our Wireless System.** This remote sensor was designed to the highest reliability and ease of use standards. Thank you for choosing our quality products.

**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.

**Caution: Equipment Damage Hazard**

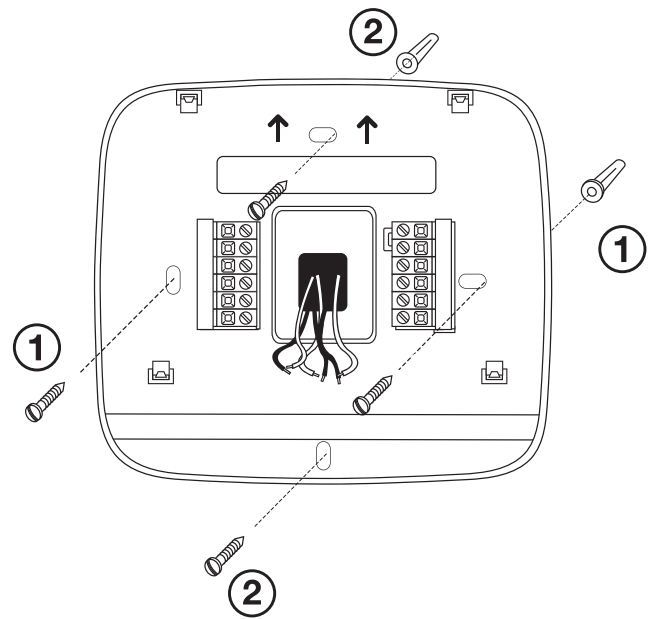
Do not operate the cooling system if the outdoor temperature is below 50°F (10° C) to prevent possible compressor damage.

Una version en espanol de este manual se puede descargar en la pagina web de la compania.

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Rev. 2321

## Thermostat Subbase Installation



- 1 Horizontal Mount For horizontal mount put one screw on the left and one screw on the right.
- 2 Vertical Mount For vertical mount put one screw on the top and one screw on the bottom.

### Installation Tip: Electrical Hazard

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

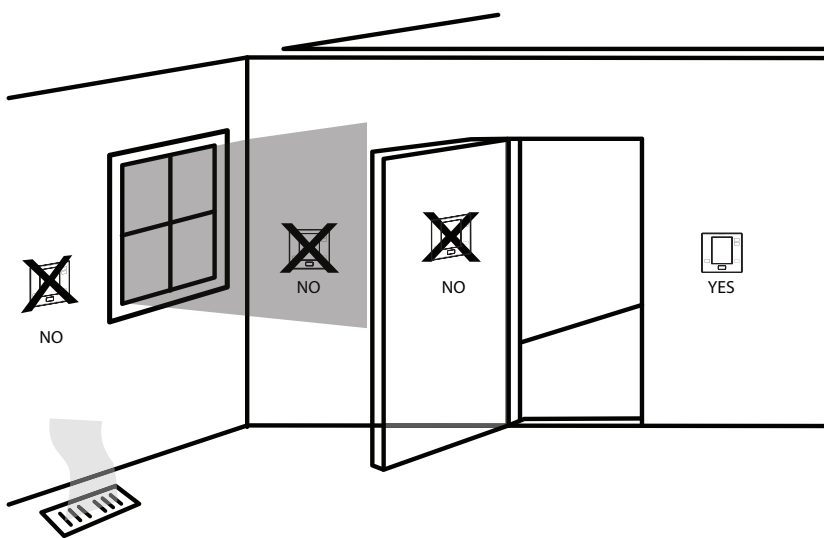
### Mercury Notice

All of our 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.

## Installation Tips

### Recommended Wall Mounting Locations

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



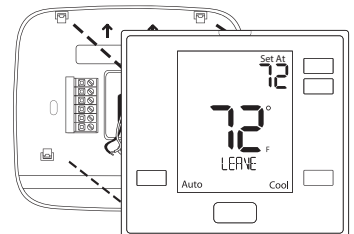
Do not mount or place Remote Sensors in locations:

- Close to hot or cold air ducts
- That are in direct sunlight
- With an outside wall behind the thermostat
- In areas that do not require conditioning
- Where there are dead spots or drafts (in corners or behind doors)
- Where 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.

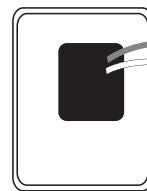
## Installation Tips

### Mount Thermostat

Align the 4 tabs on the subbase with corresponding slots on the back of the thermostat, then push gently until the thermostat snaps in place.



### Battery Installation

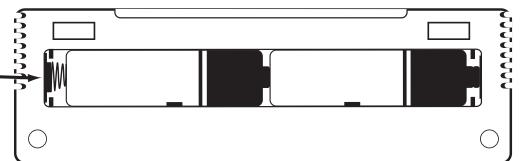


Battery installation is optional if thermostat is hardwired (R and C terminal connected to 24V power).

#### Important:

High quality alkaline batteries are recommended. Rechargeable batteries or low quality batteries do not guarantee a 1-year life span.

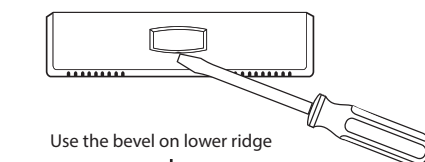
Insert 2 AA Alkaline batteries (included). High quality alkaline batteries are recommended.



Located on the back of the thermostat.

### About The Private Label Badge

All of our thermostats use the same universal magnetic badge. Visit the company website to learn more about our free private label program.



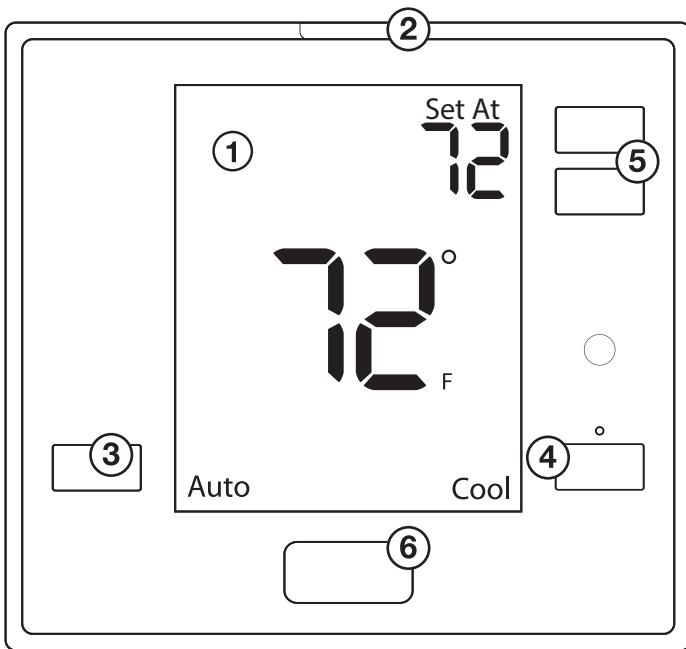
Use the bevel on lower ridge

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 in the well of the battery door. The badge should pry off easily. **DO NOT USE FORCE.**

Getting to know your thermostat

Getting to know your thermostat



- ① LCD Display
- ② Glow in the dark light button
- ③ Fan/Previous Button
- ④ System/Next Button
- ⑤ Temperature Setpoint Buttons
- ⑥ Private Label Badge

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Remote Sensing Communication

Connecting To The PROsync System

Establishing communication between a remote sensor and the equipment module

The main thermostat and equipment module in this package are linked at our factory. Upon power up, they will automatically begin to communicate. If you wish to add additional remote sensors, follow the instructions on this page.

How To Pair

1. Press the PAIR button on the equipment module. The equipment module will begin double blinking pink for 2 minutes while it listens for a new remote.
2. Press and hold the light button on the unpaired remote sensor to be added. The remote sensor will show "PAIRING" on the main screen.
3. When the remote sensor is successfully paired to the equipment module, the LCD will display "PAIRED" and the equipment module Pair button LED will blink green.
4. Repeat the process for additional remote sensors.

Network Troubleshooting

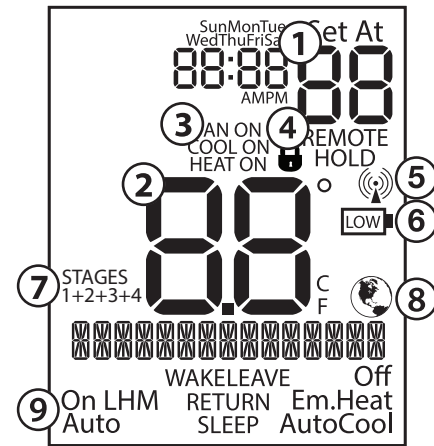
For any of the conditions listed below, please visit our website for troubleshooting instructions at [www.pro1iaq.com/prosync](http://www.pro1iaq.com/prosync)

If your remote shows "NO COMM TO BASE" in the text field, this indicates the remote thermostat cannot communicate with the equipment module.

Equipment Module Troubleshooting

Light Color	Blinking Type	Description
White	Single Blink (slow)	Equipment module network reset - no remotes paired or connected. Equipment module will not energize the heating and cooling system.
Green	Single Blink	All remote thermostats are connected to the equipment module, network is healthy.
Yellow	Double Blink	One or more remote thermostats are disconnected from the equipment module.
Red	Triple Blink	All remote thermostats are disconnected. Equipment module will not energize the heating and cooling system.

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- ① **Setpoint:** Displays the selected setpoint temperature.
- ② **Indicates the current room temperature**
- ③ **System Operation Indicators:** The COOL ON, HEAT ON or FAN ON will display when the COOL, HEAT, or FAN is on. **The compressor delay feature is active if these are flashing.**
- ④ **Keypad Lockout:** Lock out control at the thermostat.
- ⑤ **Radio Antenna:** Displays the strength of the radio.
- ⑥ **Low Battery Indicator:** Replace batteries when this indicator is shown.
- ⑦ **Globe:** Globe is displayed if an energy efficient temperature has been selected.
- ⑧ **Stages:** +1 will appear in the display when the first stage of heat or cool is on. +2 will appear for the second stage of heat.
- ⑨ **Fan:** Indicates the current fan setting.
- ⑩ **System:** Indicates current system mode setting.

**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 screen will only show the low battery indicator but maintain all functionality. If all remotes are disconnected, the base will enter "Freeze Protection" mode if this feature is turned on.

**Important**

**Keypad Lockout:** Lock out control at the thermostat.  
**Hold:** Is displayed when the Master Thermostat is in a temperature hold.

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Remote Sensor Configuration

Locking Out System Control At The Remote


KEYPAD LOCKOUT

The amount of control available at each remote can be limited using the Keypad Lockout feature. To use this feature, you must first navigate to the Keypad Lockout tech setting by holding the + and - buttons together for 3 seconds and pressing the system button until you reach Keypad Lockout. You have three levels of limiting access to choose from.

**OFF** – Allows all functionality at the remote sensor based on the system application.

**PARTIAL** – Disables the fan and system button, only allowing the user to change the Set At temperature.

**FULL** – Disables all control at the remote sensor, only allowing the user to view the current operation.

If this setting is set to Partial or Full, the lock icon  will appear on the home screen.



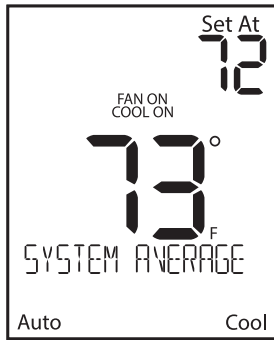
8

**Manually Overriding The System (Non-programmable)**

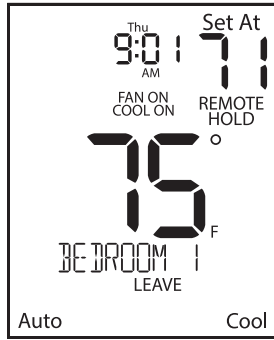
If Keypad Lockout is set to OFF or PARTIAL, you have the ability to override the system from the remote sensor. If any button is pressed, the sensor will temporarily take control of the entire system for four hours. If at any point another button is pressed from that sensor, the four-hour time starts over. If you interact with any other remote sensor, it will start the timer over, and that sensor will take control of the system.

**Manually Overriding The System (Programmable)**

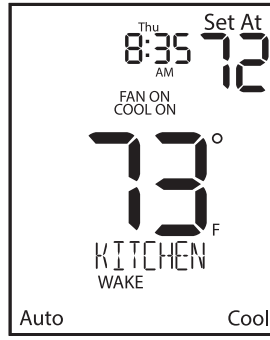
After the four-hour override has passed without any interaction on any of the remote sensors or thermostats in the home, the system will return to the previous or default control point. If the system has been running a program, it will return to the schedule based on the time of day.



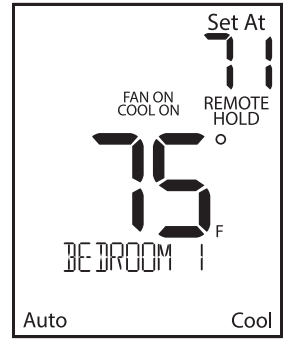
**No Program**  
Viewing Thermostat - Kitchen  
Thermostat In Control - System



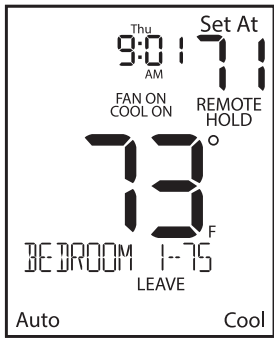
**Temporary Override**  
Viewing Thermostat - Bedroom 1  
Thermostat In Control - Bedroom 1



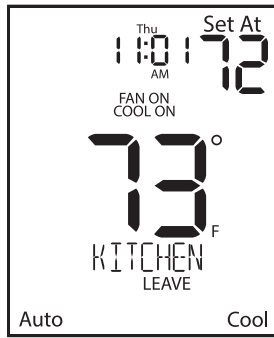
**Running The Schedule**  
Viewing Thermostat - Kitchen  
Thermostat In Control - Kitchen



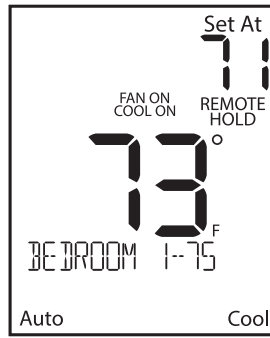
**Temporary Override**  
Viewing Thermostat - Bedroom 1  
Thermostat In Control - Bedroom



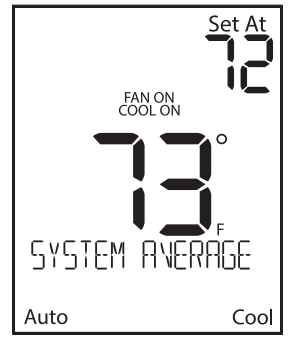
**Temporary Override**  
Viewing Thermostat - Kitchen  
Thermostat In Control - Bedroom 1



**Temporary Override Expired**  
Viewing Thermostat - Kitchen  
Thermostat In Control - System

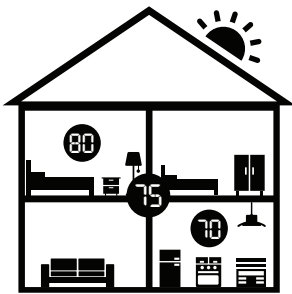


**Temporary Override**  
Viewing Thermostat - Kitchen  
Thermostat In Control - Bedroom



**Temp Override Expired - No Program**  
Viewing Thermostat - Kitchen  
Thermostat In Control - System Average

**Benefits To Using The PROsync Wireless System**



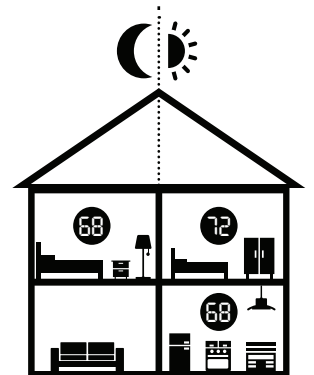
When using remote sensing, this system can be configured four separate ways to maximize comfort for homeowner and cater to each of their unique lifestyles.

**System Averaging**

System Averaging will average all remotes together to provide a more accurate temperature of the entire home. Adjusting the temperature from any remote will temporarily put that room in control of the system. If the upstairs thermostat reads 80 while the basement reads 70 the system will condition the home to a 75 ambient.

**Scheduling**

With scheduling the system you can make different rooms in control for each part of the day. For homeowners with predictable schedules, this ensures each room will be the target temperature when scheduled to be used. Making the kitchen in control in the morning, your home office during the day, your living room in the evening, and your master bedroom at night is a great hands-free approach to maximize comfort. To turn Scheduling on or off, see the instructions for the "Program Mode" tech setting in the main thermostat manual on page 22.



**Occupancy Sensing (Last Seen Mode)**

This is the perfect solution for homes with a single occupant with less predictable schedules, using the built-in occupancy sensors moves the comfort around the home without the need for scheduling. As soon as someone enters a room, it takes control of the system. To turn Last Seen Occupancy Sensing on, see the instructions for "Occupancy Mode" tech setting in the main thermostat manual on page 31.

**Occupancy Sensing (System Average Mode)**





This is an excellent solution for a home with multiple occupants. Each time a remote senses occupancy, it starts an automatic, internal timer. The system is controlled using the average of the temperatures from only the remotes with active timers. When a remote's timer expires, the system removes that remote from the average. To turn System Average Occupancy Sensing on, see the instructions for "Occupancy Mode" tech setting in the main thermostat manual on page 31.








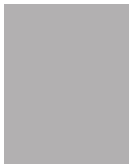



Technician Setup Menu



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

1. Hold down the + and - buttons together for 3 seconds.
2. Use the + and - buttons to modify a setting. Use the Fan button to go back a step and use the system button to go forward a step.
3. To exit Tech Settings, press and hold the + and - button together for 3 seconds or wait 60 seconds.

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
<b>Room Temperature Calibration</b> 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.		You can adjust the room temperature display to read up to 4° above or below the factory calibrated reading.	0°F
<b>Keypad Lockout</b> Keypad lockout allows you to configure the thermostat so some or all of the keys don't function.  Unlike other models, keypad lockout is always engaged if it is set to PARTIAL or FULL.		Use the + and - buttons to select OFF, PART, FULL OFF - OFF= keypad lockout has been disabled. PA - PARTIAL= partial keypad lockout, which locks all the keys except the or setpoint keys. FU - FULL= full keypad lockout, which locks out all the keys.	OFF
<b>Display Light</b> (This setting is only applied when the thermostat is hardwired)  The display light can be configured to stay on all the time or turn on when any key is pressed. There are LOW and HIGH selections for continuous ON selection.	  	Use the [+] and [-] buttons to select OFF, LOW, or HIGH.  OFF configures the display light to come on when the light key or any button is pressed.  LOW configures the display light to stay on at a low intensity constantly. When a button is pressed, the display light will transition to high intensity.  HIGH configures the display light to remain on at high intensity all the time.	LO When Hardwired

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
<b>Duration of Occupancy</b> (Only displayed if Occupancy Control is set to "ON")  When the occupancy sensor is turned on you have the ability to set how long the thermostat will go into occupancy mode everytime a person is sensed.		30 = 30 minutes, 1 = 1 hour, 2 = 2 hours, 3 = 3 hours, 4 = 4 hours, 5 = 5 hours, 6 = 6 hours, 7 = 7 hours, 8 = 8 hours, 9 = 9 hours, 10 = 10 hours, 11 = 11 hours, and 12 = 12 hours.	8
<b>Occupied Cool Setting</b> (Only displayed if Occupancy Control is set to "ON")  Set the cooling temperature that you would like the system to be while the space is occupied.		Full temperature range defined by setpoint limits.  Adjust the temperature using the + and - buttons.	75°
<b>Occupied Heat Setting</b> (Only displayed if Occupancy Control is set to "ON")  Set the heating temperature that you would like the system to be while the space is occupied.		Full temperature range defined by setpoint limits.  Adjust the temperature using the + and - buttons.	70°
<b>Unoccupied Cool Setting</b> (Only displayed if Occupancy Control is set to "ON")  Set the cool temperature that you would like the system to be while the space is unoccupied.		Full temperature range defined by setpoint limits.  Adjust the temperature using the + and - buttons.	75°
<b>Unoccupied Heat Setting</b> (Only displayed if Occupancy Control is set to "ON")  Set the heat temperature that you would like the system to be while the space is unoccupied.		Full temperature range defined by setpoint limits.  First adjust the temperature using the + and - buttons.	70°

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
<b>Occupancy Sensitivity Setting</b> (Only displayed if Occupancy Control is ON)  Set the level of sensitivity of the occupancy sensor. Lowering the sensitivity will cause the sensor to respond only to larger movements.		High Sensitivity(3): This is the most sensitive setting and will detect very slight motions. This is the recommended setting because it will work well for nearly all applications, and will detect any movement.  Medium Sensitivity(2): This is the medium sensitive setting. This is less likely set off by pets.  Low Sensitivity(1): This is the least sensitive setting and can be used in areas of heavy traffic. Pets, small children, or people more than 20' from the sensor location are least likely to trigger the sensor.	2
<b>Device Name</b> (Only displayed when using remote sensors)  Press the + and - buttons to choose the name of this device from a selection of common room names.			
<b>Pair Menu</b>  Use this setting to pair your thermostat to the equipment module. Press and hold [+] to join the network. This setting is only displayed when they have been unpaired for any reason.		N/A	P
<b>Exit Network</b>  Press and hold the [+] to remove this device from the network.		N/A	UP

Tech Setup Steps	LCD Will Show	Adjustment Options	Default
<b>My Signal Strength (Network Status)</b>  Displays the strength of the wireless signal and network status.		N/A	
<b>FW Version</b>  This displays the current firmware version installed on the Main Thermostat. This can be helpful for troubleshooting if you ever need to call customer service.		N/A	T755WHO-001

Specifications

Specifications

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  
 Swing (cycle rate or differential) ..... Heating is adjustable from 0.2° to 2.0°  
 Cooling is adjustable from 0.2° to 2.0°  
 Power source ..... 18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire  
 Battery power from 2 AA Alkaline batteries  
 Operating ambient ..... 32°F to +105°F (0°C to +41°C)  
 Operating humidity ..... 90% non-condensing maximum  
 Dimensions of thermostat ..... 4.7" W x 4.3" H x 0.9" D