R250W

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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The R250W requires the PROsync™ Wireless System T755WHO thermostat.

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.

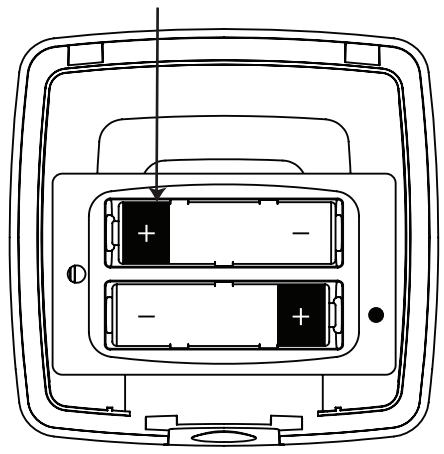
Specifications

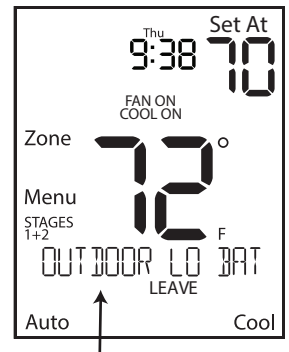
Operating Temperature ..... -40˚F to 140˚F (-40˚C to 60˚ C)
Operating humidity..... 90% non-condensing maximum
Dimensions of sensor ..... 3.875"W x 3.875"H x 1.125"D

Rev. 2339

Installing Batteries

To install 2 AA batteries remove the cover of the front housing and insert batteries as show below.





NOTE About Low Batteries:
When the outdoor battery needs to be changed the **Main Thermostat** will flash **OUTDOOR LO BAT** as seen above. When **OUTDOOR LO BAT** appears, user has ~3 months to change the batteries.

Battery types

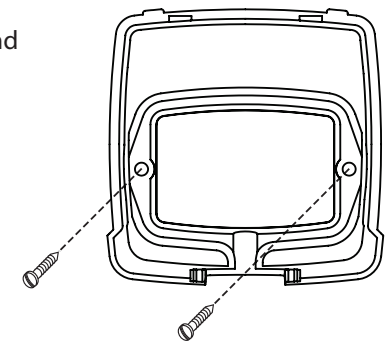
- **Alkaline AA** batteries will perform well in most applications.

- **Lithium AA** primary cell batteries are recommended for cold climates. See the battery manufacturer product specifications for details.

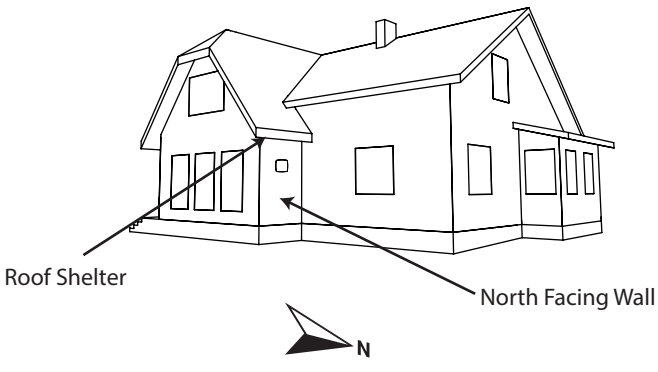
- **Rechargeable batteries** are not recommended.

Mounting the Outdoor Remote Sensor

To install remove the front cover and place a screw in the left and right screw holes.



IMPORTANT:
For best results, install on a north-facing wall, sheltered by a roof overhang or something similar. Do not install in direct sunlight.

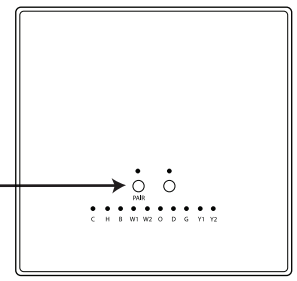


Installation Tips

Before putting the inside cover back on, proceed to the next page to establish a connection between the **Equipment Module** and the **Outdoor Sensor.**

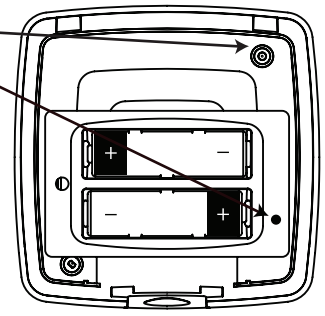
Connecting to the Main Thermostat

The Outdoor Sensor must be paired to a PROsync Equipment Module (sold seperately)



On the Equipment Module:
1. Press the PAIR button below the LED.
   - The equipment module will begin double blinking pink for 2 minutes while it waits for a remote to join.

2. Press the button on the inside of the outdoor remote sensor. The LED on the outdoor remote sensor will begin to flash pink.



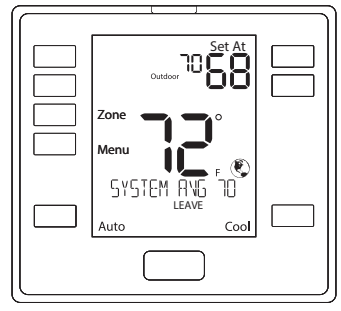
3. When the equipment module receives the pairing message , it will blink blue repeatedly, then return to blinking green.

4. The outdoor remote sensor will blink green 10 times when it is paired, then the LED on the outdoor sensor will turn off.

Checking outdoor remote sensor temperature:

After the outdoor remote sensor is paired, on the indoor remote sensor press the light button and WAIT 30 seconds.

The antenna icon will flash 3 times, and the outdoor temperature will appear at the top of the LCD screen.

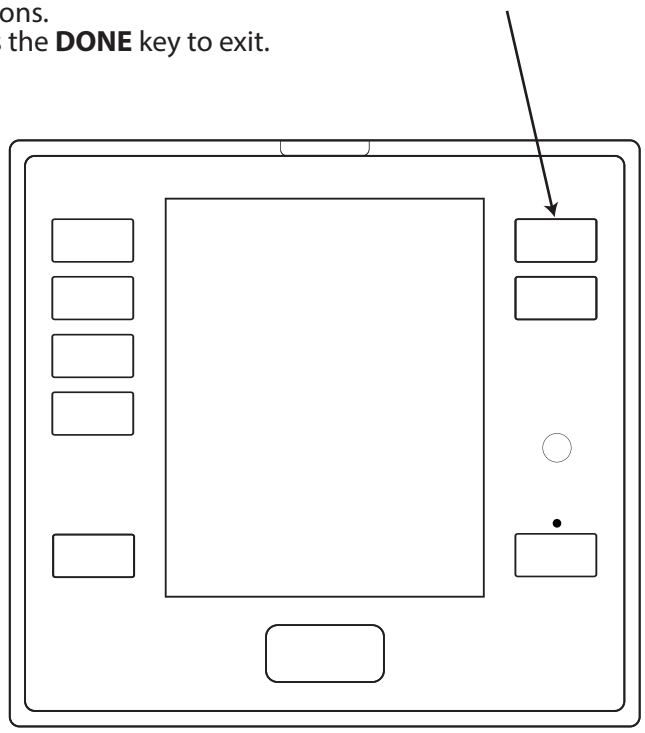


To check the connection of the outdoor remote sensor to the equipment module at the installation site, press the button on the outdoor sensor and wait 15 seconds. The LED will blink white while the outdoor sensor is checking the connection and then show the following status indicators: **BLUE** - Good Connection - **YELLOW** - Weak Connection - **RED** - No Connection / out of range.

These steps must be done from the MAIN Thermostat in your PROsync System. This thermostat has a technician setup menu for easy installer configuration. To set up the thermostat for your particular application:

1. Press the **MENU** button.
2. Press and hold the 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 previous step key to move from one step to another. **Note:** Only press the **DONE** key when you want to exit the technician setup options.
4. Press the **DONE** key to exit.



Tech Setup Steps		LCD Will Show	Adjustment Options	Default
Free Cooling (Only displayed if an outdoor remote sensor is paired to the equipment module)	This feature will bring in outside air for first stage cooling operations, if the outdoor temperature is 5 (or more) degrees lower than the setpoint temperature. This setting can only be enabled if the Cool system mode is enabled.	OF FREE COOL ING	Use the [+] and [-] buttons to select ON/OFF.	OFF
Free Cooling Terminal (Fresh air mode and free cooling can be used together. Free cooling cannot be used with PTAC mode, or three stages of heat.	This setting provides the option to select a terminal for Free Cooling functions. The selected terminal cannot be used for reversing valve operations when the heat pump setting is turned on.	0 FREE COOL TERM	Use the [+] and [-] buttons to select O/B.	O
Dual Fuel Balance Point (Only displayed if an outdoor remote sensor is paired to the equipment module, Heat Pump is "ON", and Dual Fuel Aux is "ON")	When the outdoor temperature is above the balance point, the thermostat will energize only the Y terminals in a call for heat. When the outdoor temperature is below the balance point, the thermostat will energize only the W terminals in a call for heat.	OF BALANCE PO INT	Use the [+] and [-] buttons to select OFF, 10, 15, 20, 25, 30, 35, 40, 45, 50 degrees.	OFF
Balance Point Electric AUX Cut In (Only displayed if an outdoor remote sensor is paired to the equipment module, Heat Pump is "ON", and Dual Fuel Aux is "OF")	Balance point with electric auxiliary will optimize heat pump usage. When the outdoor temperature is above the AUX CUT OUT selection, the thermostat will only allow the Y terminal(s) to energize and lock out the W2 terminal. When the outdoor temperature falls below the AUX CUT OUT selection and sits above the AUX CUT IN selection, the thermostat to allow the Y terminal(s) and the W2 terminal to energize. When the outdoor temperature is below the AUX CUT IN selection, the thermostat will only energize the W2 terminal and lock out the Y terminal(s).	OF BP AUX CUT IN	Use the [+] and [-] buttons to select 10, 15, 20, 25, 30, 35, 40, 45, 50 degrees.	OFF

Tech Setup Steps		LCD Will Show	Adjustment Options	Default
Balance Point Electric AUX Cut Out (Only displayed if an outdoor remote sensor is paired to the equipment module, Heat Pump is "ON", and Dual Fuel Aux is "OF")	Balance point with electric auxiliary will optimize heat pump usage. When the outdoor temperature is above the AUX CUT OUT selection, the thermostat to only allow the Y terminal(s) will energize and lockout the W2 terminal. When the outdoor temperature falls below the AUX CUT OUT selection and sits above the AUX CUT IN selection, the thermostat will allow the Y terminal(s) and the W2 terminal to energize. When the outdoor temperature is below the AUX CUT IN selection, the thermostat will only energize the W2 terminal and lockout the Y terminal(s).	OF BP AUX CUT OUT	Use the [+] and [-] buttons to select 10, 15, 20, 25, 30, 35, 40, 45, 50 degrees.	OFF
Balance Point Run Time (Only displayed if Dual Fuel Balance Point or Balance Point Electric Aux Cut In are set to an outdoor temperature.)	Balance point run time will allow the W2 auxiliary terminal to energize even if the outdoor temperature is above the selected balance point temperature. If enabled, the auxiliary will energize for the current cycle after the balance point run time has expired.	OF BP RUN TIME	Off, 15, 30, 45, 60, 75, 90	OFF
Automatic Humidity Adjusting (Only displayed if an outdoor remote sensor is paired to the equipment module and Humidity is set to "ON")	This feature will adjust the indoor humidity as the outdoor temperature changes. When OFF is selected, the humidity setpoint is controlled by the user. When ON is selected, the humidity setpoint will fluctuate. When ON is selected, the indoor humidity will will adjust automatically based on the outdoor temperature.	OF AUTO HUMIDITY	Use the [+] and [-] buttons to select OFF, ON 1 or ON 2. When ON 1 or ON 2 is selected and humidity level is adjusted, the thermostat will revert to the original humidity level after four hours. See Automatic Humidity Adjusting chart for humidity ranges. Please see the chart on page 30 on the 755WHO installation manual.	OFF

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to 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 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 into an outlet on a circuit different from that to which the receiver is connected.
· Consult the dealer or an experienced radio/TV technician for help.

FCC RF Exposure Statement

The device shall be used in such a manner that the potential for human contact normal operation is minimized. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.