PRO1® IAQ

WIRELESS REPEATER

This manual covers the following models:
- **W150W**

Applications Guide

The wireless repeater extends the signal range of many of PRO1's wireless products. When the W150W receives a coded wireless signal, it repeats it to extend the wireless range of the device.

Power Type

Hardwire (Common Wire)
24V AC (18-30V)

Table of Contents

RF Frequency

916 MHz

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

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 MODULES QUICK REFERENCE

Getting to know the W150W Module

① **Indicator Light**

② **LCD**

③ **Module Button**

Important:
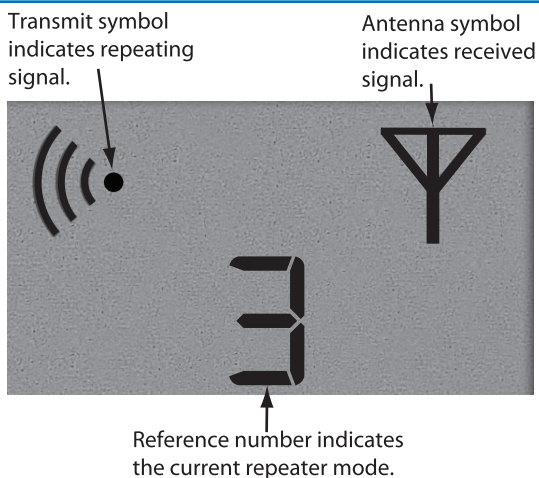Wireless modules must have 24VAC power connected on R and C.

Connecting to Devices

1. When powered, the set **Reference Number** of communicating devices appears on the LCD ②. To determine the **Reference Number** needed (1, 2, 3, or 4) for your devices; see chart below.

Select the reference number that corresponds to the devices.

Ref. #	Communication Path (Master Thermostat to:)	Model Numbers Involved
1	- Equipment Base Module - Damper Module	Z955W, Z270W, Z260W
2	- Zone Thermostat - Outdoor Remote Sensor - Discharge Air Sensor	Z955W, T955W, T955WH, Z251W, ZDA250W, R250W, R251W
3	- Equipment Base Module	T955W, T955WH
4	- Equipment Base Module	T631W-2

2. To enter **Reference Number** selection mode, press the Module Button ③. The **Reference Number** will start flashing. While Flashing, press Module Button again to select **Reference Number** needed. Once Selection is made, stop. The number will quit flashing in 5 seconds, and the Device **Reference Number** is set.

Transmit symbol indicates repeating signal.

Antenna symbol indicates received signal.

Reference number indicates the current repeater mode.

Communication Note

When the W150W receives a coded wireless signal the "Ψ" **Symbol** will flash 3 times. Immediately following, the coded wireless signal is repeated as the "(((•" **Symbol** and Indicator Light ① flash 3 times.
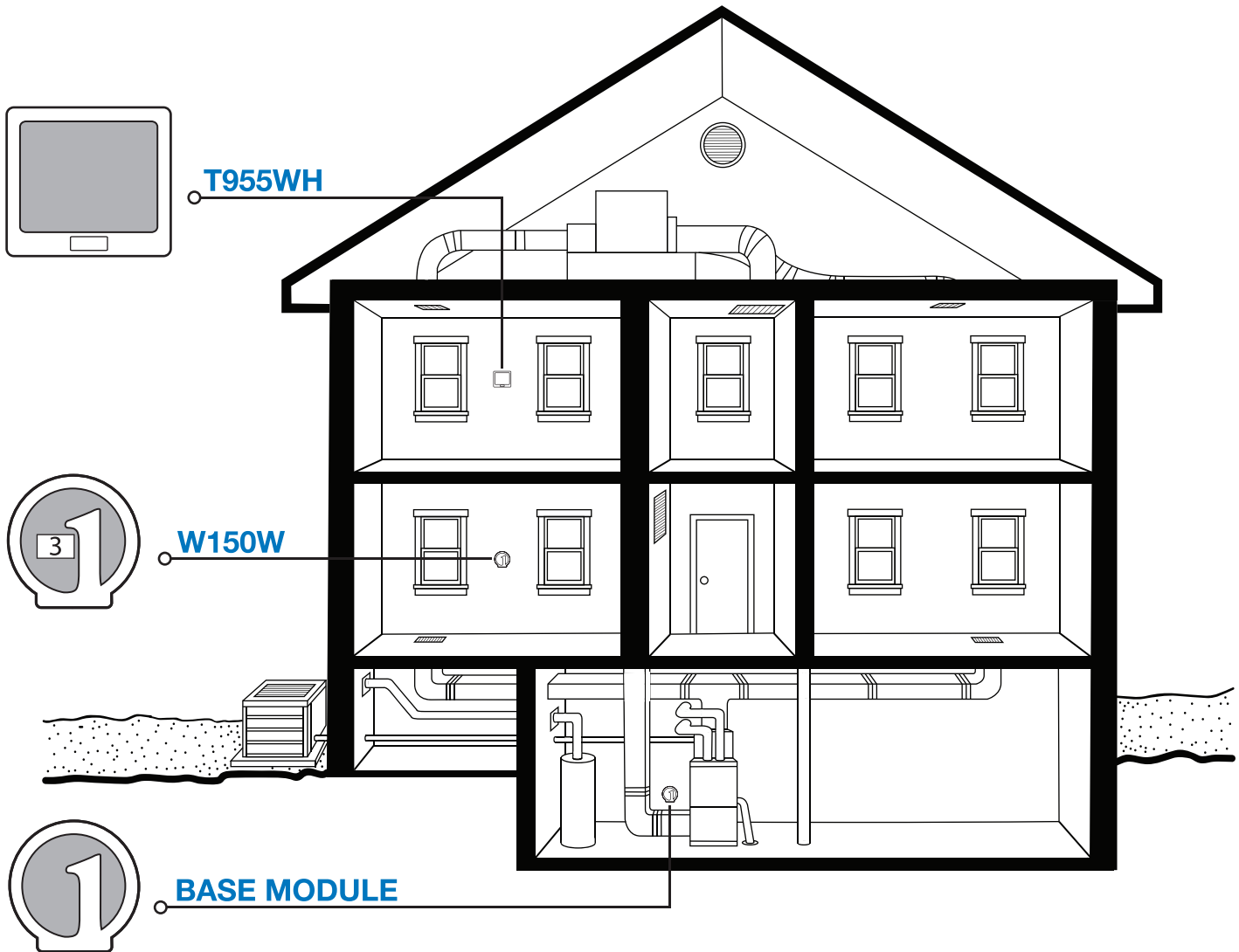
PRO1 Tips

Visit our website at www.pro1iaq.com to learn more about our other wireless family of products.

Wireless Module - Installation

Wireless Range

Range between the W150W module and the devices to be repeated is up to 100 feet with no obstructions and up to 50 feet in standard residential construction. The W150W module should be installed between the wireless devices. To extend the range try placing the modules closer together and/or further away from large metal objects.

T955WH

W150W

3

BASE MODULE

PRO1 Tip

Do not install the wireless module in locations:
- That are behind a chimney.
- Where temperature could exceed 120ºF.
- Where exposed to rain or snow.
- Where exposed to extreme hot or cold.

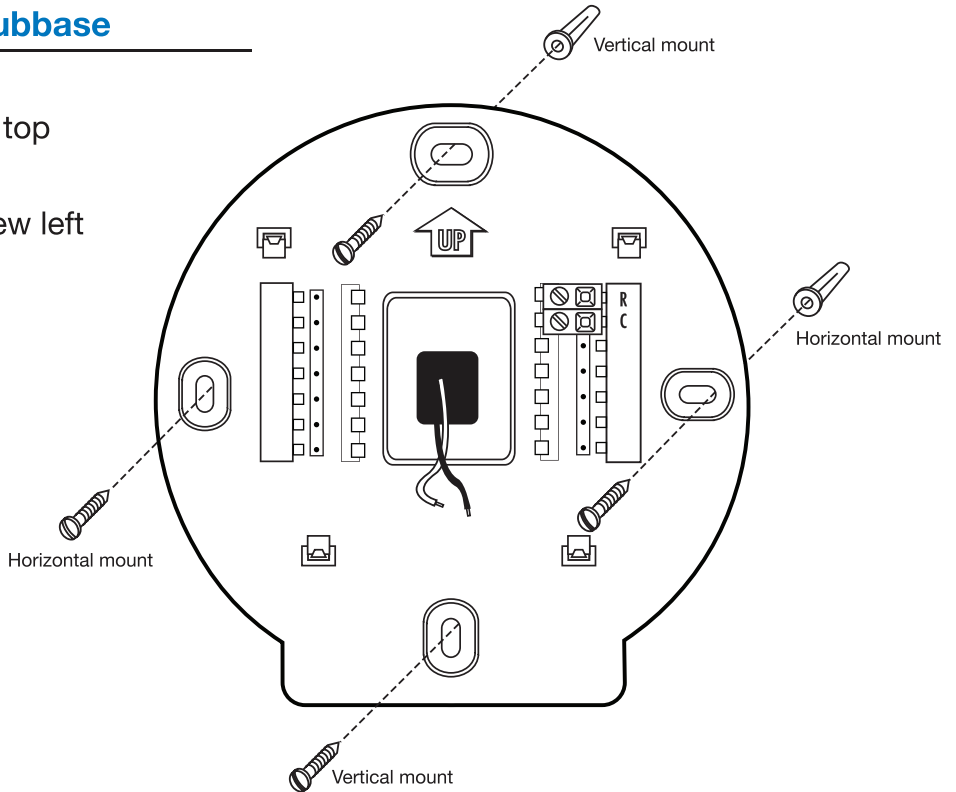**NOTE:** The wireless modules are NOT weatherproof.

Note:
The W150W Reference Number is set to 3 in this example.

Mounting the wireless module subbase

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

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

Vertical mount

Horizontal mount

UP

R
C

Horizontal mount

Vertical mount

Warning:

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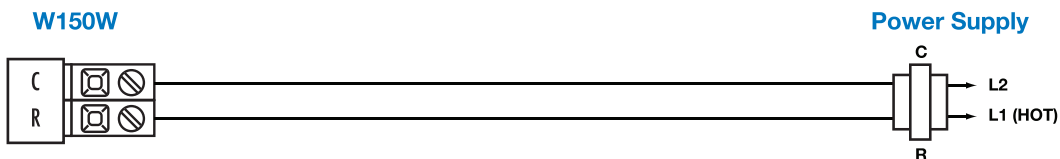
Caution: Electrical Hazard

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

Wiring Module to Power Supply

The W150W must be hardwired (C and R terminals connected to 24VAC power).

Wiring Note:
Turn off power while wiring.

W150W

C
R

Power Supply

C

L2

L1 (HOT)

R

Mount the Wireless Modules

Align the 4 tabs on the subbase with corresponding slots on the back of the wireless modules. Then push gently until the wireless repeater snaps in place.

Note:
The wireless modules can be wired from the back or the bottom.

PRO1 Tip

Do not install the wireless module in locations:
• That are behind a chimney.
• Where temperature could exceed 120ºF.
• Where exposed to rain or snow.
• Where exposed to extreme hot or cold.
NOTE: The wireless modules are NOT weatherproof.

Specifications

Power source	18 to 30 VAC, NEC Class II, 50/60 Hz for hardwire (common wire)
Operating ambient	+32ºF to +122ºF (0º to +50ºC)
Operating humidity	90% non-condensing maximum
Frequency	916 MHz
Dimensions	4.4"W x 4.4"H x .75"D

Contact Us

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Web: http://www.pro1iaq.com
Hours of Operation: Monday - Friday 9 AM - 6 PM Eastern

Warranty Registration:
Your new Pro1 wireless repeater has a 5 year limited warranty. You must register your warranty within 60 days of installation. You can register your new product 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