



This manual covers the following models:

- **R251S** (Requires a Wired Sensor Capable 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.

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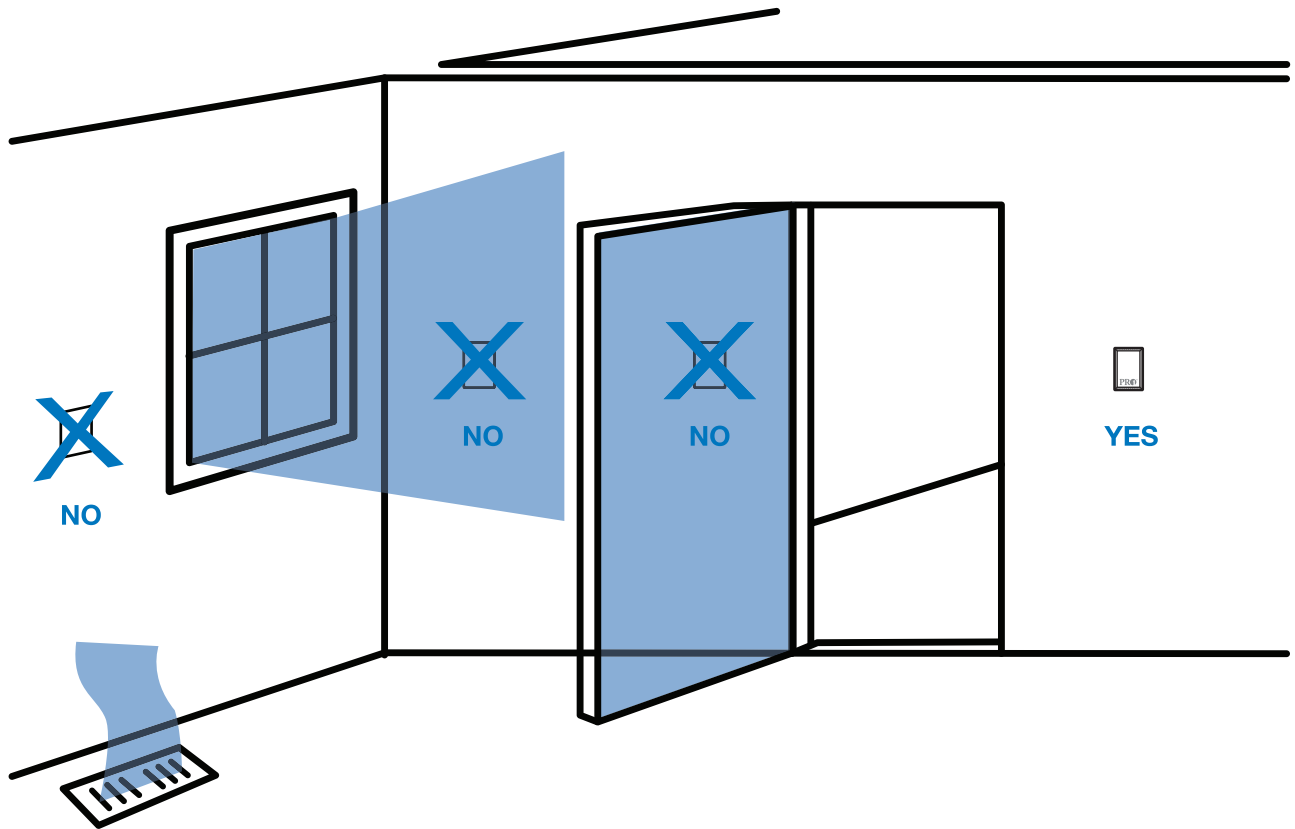
Need Help?

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

Remote Sensor 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:

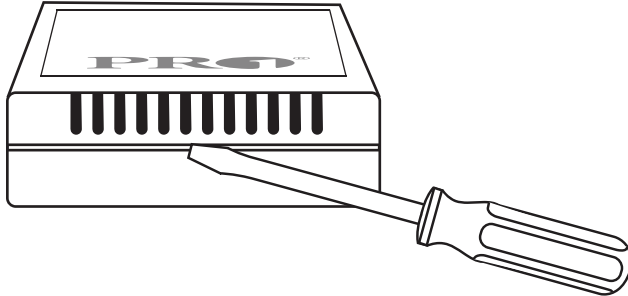
- Close to hot or cold air ducts.
- That are in direct sunlight.
- With an outside wall behind the thermostat.
- In areas that do not require conditioning.
- Where there are dead spots or drafts (in corners or behind doors).
- Where appliances could radiate heat.
- Near or on hot appliances.

Wired Range

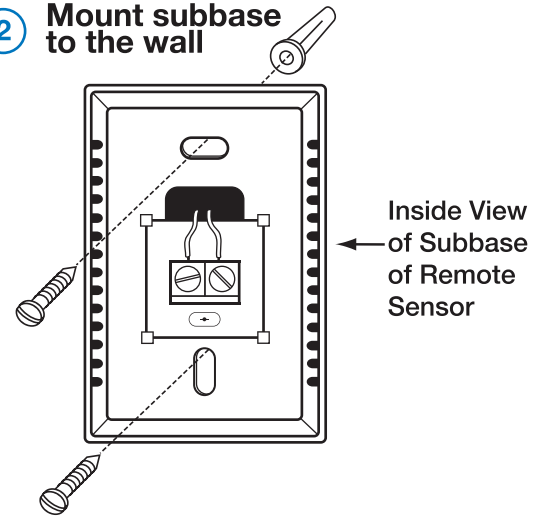
The range between the R251S and the wired sensing master thermostat is up to 300 feet. The R251S should be installed using 18 AWG thermostat wire.

Wall Mount

- 1 Remove the cover of the R251S.

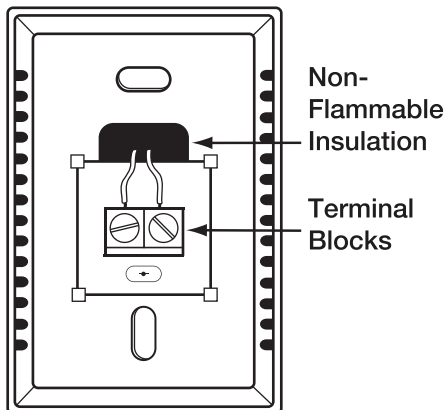


- 2 Mount subbase to the wall

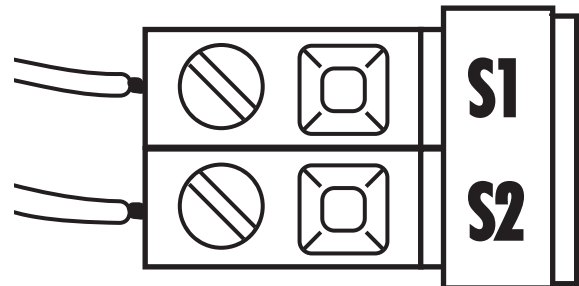


Connecting to a Wired Sensor Capable Thermostat

- 1 Loosen the terminal block screws. Insert wires, then retighten terminal block screws.



- 2 Connect the R251S to the S terminal blocks on the Wired Sensor Capable Thermostat.



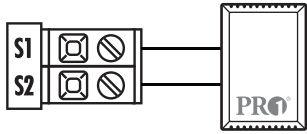
- 3 Place non-flammable insulation into wall openings to prevent drafts.

NOTE: Refer to your Wired Sensor Capable Thermostat manual for setup.

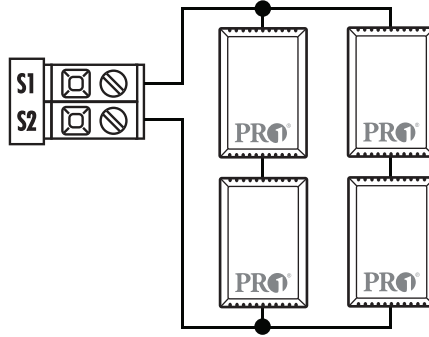
Wiring

You can connect 1, 4, 9, or 16 R251S remote sensors to a Wired Sensor Capable Thermostat to achieve a more accurate temperature average throughout a space. The following diagrams illustrate the proper ways to wire the R251S remote sensor. Use 18 AWG thermostat wire when installing.

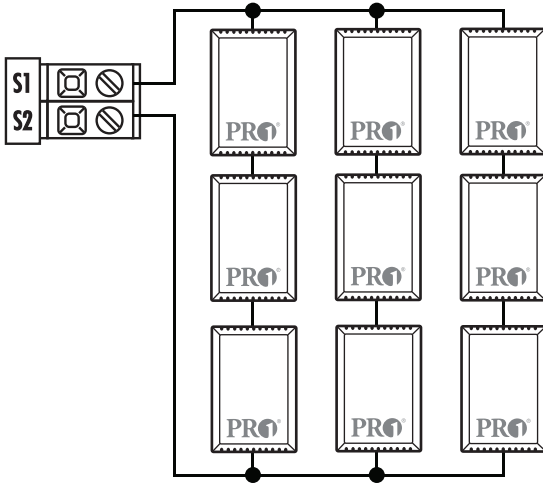
1 R251S



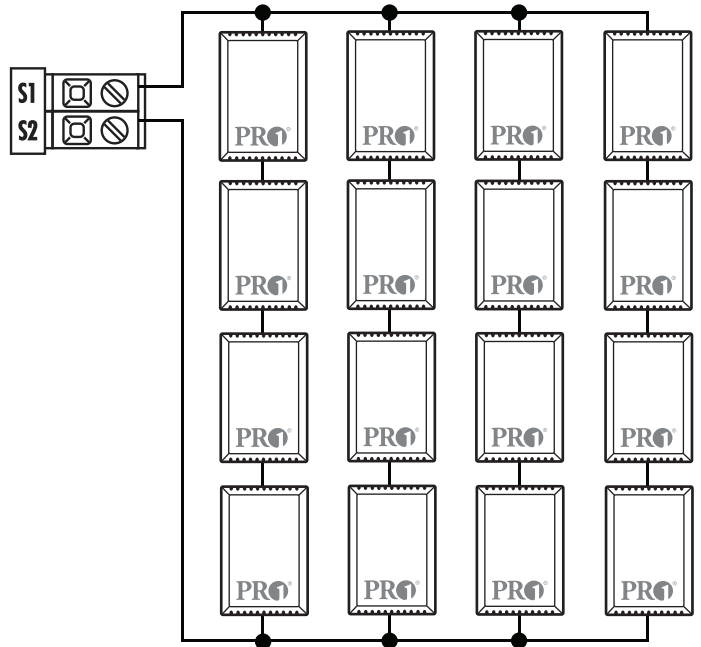
4 R251S



9 R251S



16 R251S



Specifications

R251S Wired Sensor

Operating temperature	32°F to +105°F (0° to +41°C)
Operating humidity	90% non-condensing maximum
Dimensions of sensor	1.5"W x 2.75"H x 0.75"D
Resistance Range	Up to 300 feet

100K Thermistor Output Table

°F	°C	Ohms	°F	°C	Ohms	°F	°C	Ohms
-39	-39.44	5152	25	-3.89	491.1	89	31.67	71.59
-37	-38.33	4752	27	-2.78	459.6	91	32.78	67.80
-35	-37.22	4385	29	-1.67	430.4	93	33.89	64.24
-33	-36.11	4049	31	-0.56	403.2	95	35.00	60.89
-31	-35.00	3740	33	0.56	377.9	97	36.11	57.72
-29	-33.89	3456	35	1.67	354.3	99	37.22	54.75
-27	-32.78	3196	37	2.78	332.3	101	38.33	51.94
-25	-31.67	2956	39	3.89	311.8	103	39.44	49.29
-23	-30.56	2736	41	5.00	292.6	105	40.56	46.79
-21	-29.44	2534	43	6.11	274.8	107	41.67	44.43
-19	-28.33	2347	45	7.22	258.1	109	42.78	42.20
-17	-27.22	2176	47	8.33	242.6	111	43.89	40.10
-15	-26.11	2018	49	9.44	228.0	113	45.00	38.11
-13	-25.00	1872	51	10.56	214.5	115	46.11	36.24
-11	-23.89	1738	53	11.67	201.8	117	47.22	34.46
-9	-22.78	1614	55	12.78	189.9	119	48.33	32.79
-7	-21.67	1499	57	13.89	178.8	121	49.44	31.20
-5	-20.56	1394	59	15.00	168.4	123	50.56	29.70
-3	-19.44	1296	61	16.11	158.7	125	51.67	28.28
-1	-18.33	1206	63	17.22	149.6	127	52.78	26.94
1	-17.22	1122	65	18.33	141.0	129	53.89	25.66
3	-16.11	1045	67	19.44	133.0	131	55.00	24.46
5	-15.00	973.6	69	20.56	125.5	133	56.11	23.31
7	-13.89	907.4	71	21.67	118.5	135	57.22	22.23
9	-12.78	846.1	73	22.78	111.9	137	58.33	21.20
11	-11.67	789.3	75	23.89	105.7	139	59.44	20.23
13	-10.56	736.6	77	25.00	100.00	141	60.56	19.31
15	-9.44	687.8	79	26.11	94.39	143	61.67	18.43
17	-8.33	642.4	81	27.22	89.25	145	62.78	17.60
19	-7.22	600.3	83	28.33	84.42	147	63.89	16.81
21	-6.11	561.2	85	29.44	79.88	149	65.00	16.06
23	-5.00	524.8	87	30.56	75.61			

Contact Us

Pro1 IAQ Inc.

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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 wired sensor has a 5 year limited warranty. You must register your warranty within 60 days of installation. You can register your new sensor 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