

VIVE™ TP-ROS-250S

COMFORT

Vive Comfort

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 Web: www.vivecomfort.com
 Hours of Operation: M-F 9AM - 6PM Eastern

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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. 17 34

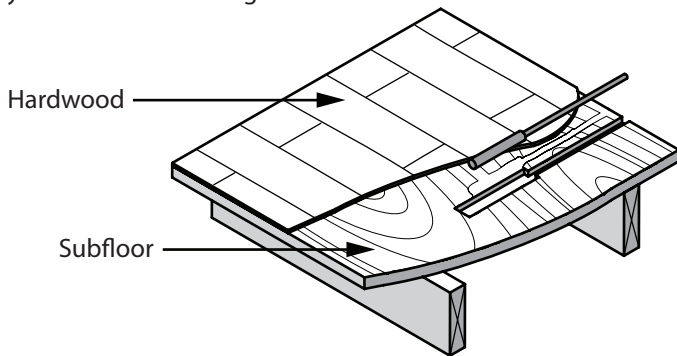
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New Installations

New Installations

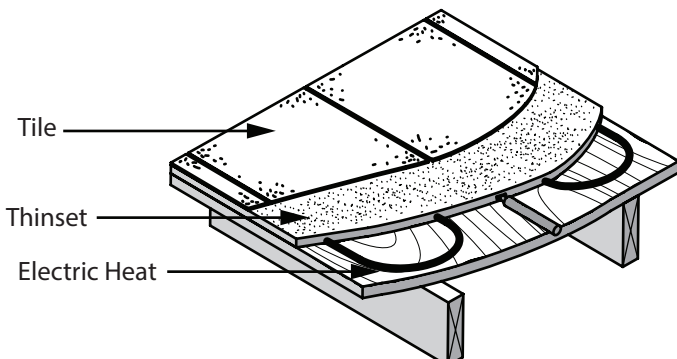
Thin Covering - Less Than 3/8" (10mm)

If the thin floor covering is installed directly to the subfloor, a 1/8" (4mm) wide by 1/16" (2mm) deep groove should be cut into the **surface of the subfloor** to allow for the sensor wire. Position the sensor in such a place that the wire can reach the location of its junction box. The groove for where the sensor will be placed should be 1/4" (8mm) deep by 1 3/4 (45mm) long. For accurate temperature reading the sensor should be located exactly between the heating elements.



Thin-Set or Thin-Pour

If the thin floor covering is installed over the thin-set or thin-pour material of sufficient depth, the sensor can be placed into **either material** and then covered by the floor covering. Position the sensor in such a place that the wire can reach the location of its junction box. For accurate temperature reading, the sensor should be located exactly between the heating elements.



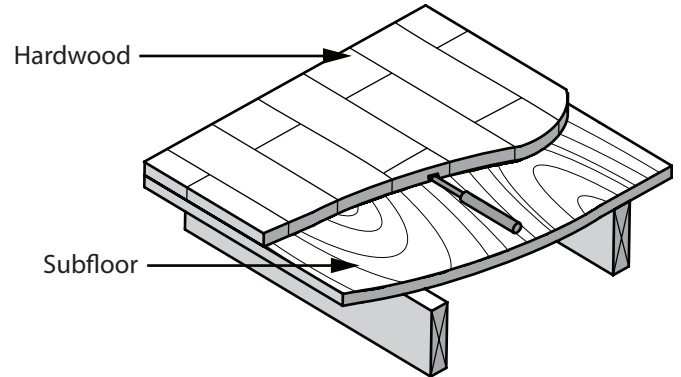
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Installing as a Floor Sensor

Before wiring, the sensor needs to be installed. The stainless steel housing allows this sensor to be placed into concrete, thin-set and grout. The following five examples demonstrate the proper way to install the sensor as a floor sensor in conventional floor construction.

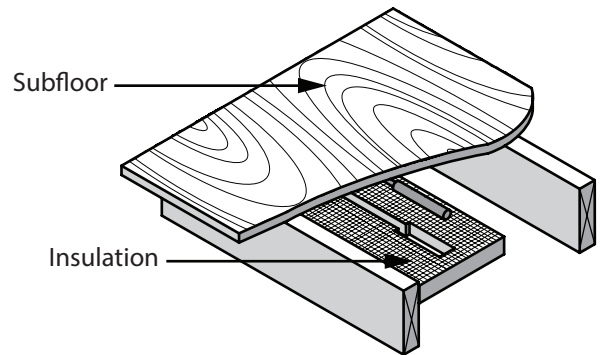
Thick covering - Greater Than 3/8" (10mm)

If the thick floor covering is installed directly to the subfloor, a 1/8" (4mm) wide by 1/16" (2mm) deep groove should be cut into the back of the floor cover to allow for the sensor wire. Position the sensor in such a place that the wire can reach the location of its junction box. The groove for where the sensor will be placed should be 1/4" (8mm) wide by 1/4" (8mm) deep by the 1 3/4" (45mm) long. For accurate temperature reading, the sensor should be located exactly between heating elements.



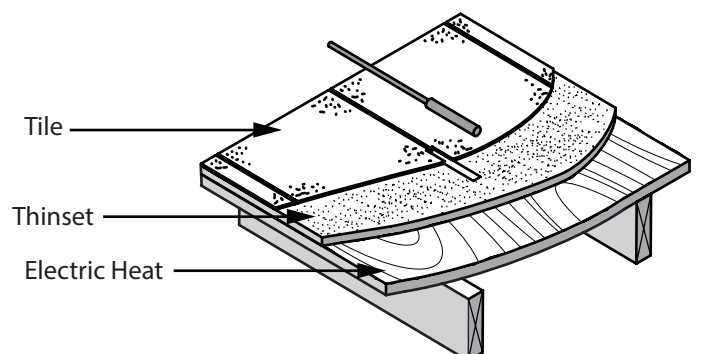
Installing to the bottom of the subfloor

If installing the sensor to the **bottom of the subfloor**, cut a piece of 1" (25mm) thick insulation into a 6" (150mm) by 6" (150mm) square. A 1/4" (8mm) wide by 1/4" (8mm) deep by 1 3/4" (45mm) long groove should be cut into the insulation to allow for the sensor. Position the sensor in such a place that the wire can reach the location of its junction box. use a preferred and effective method to fasten the insulation to the subfloor.



Flooring

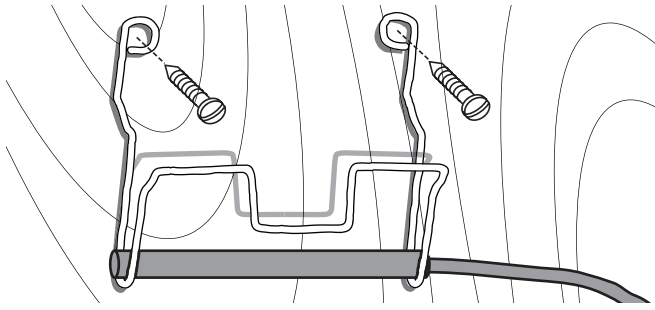
The sensor can be installed into **existing tile with adequate grout lines**. Select a location for the sensor that is exactly between the heating elements and in a low traffic area. Position the sensor in such a place that the wire can reach the location of its junction box. Remove enough of the grout line to place the sensor and wire in the floor. Then re-fill the area.



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Installing as an Outdoor Sensor

The sensor can also be used as an outdoor temperature sensor. Included in the package is a metal wall mount and 2 screws. Securely screw the mount with the R250S into a shaded area.



Wiring the Sensor

The sensor is packaged with 6' of 1.8mm cable. If you need more length, 24 AWG or larger wire can be joined onto the two wires from the sensor. The splices need to be properly joined and protected in an accessible junction box.

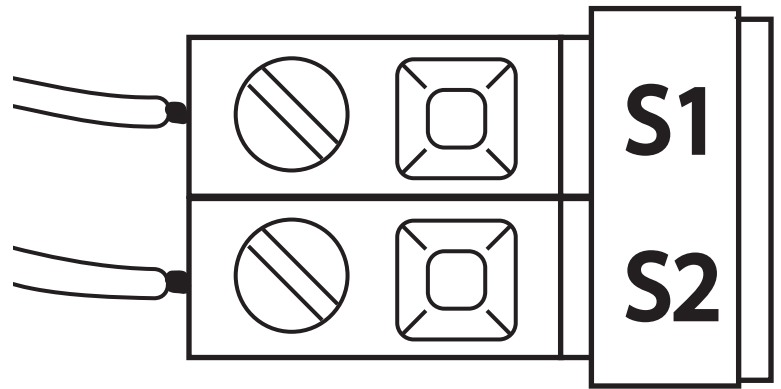


Warning:

Do NOT run the wires parallel to telephone or power cables. If there is a strong source of electromagnetic interference near the location of the sensor wires, a twisted pair or a protected cable should be used. The wires can also be run in a grounded metal conduit.

Connecting to a Wired Sensor Capable Thermostat

After installation connect the sensor to the S terminal blocks on the wired sensor capable thermostat. Loosen the terminal block screws. Insert wires, then retighten terminal block screws.



Resistance Chart

100K Thermistor Output Table

°F	C	Ohms	°F	C	Ohms	°F	C	Ohms
-39	39.44	3916295	37	2.78	302466	113	45.00	41303
-37	38.33	3627711	39	3.89	285206	115	46.11	39434
-35	37.22	3362274	41	5.00	269035	117	47.22	37660
-33	36.11	3117987	43	6.11	253877	119	48.33	35976
-31	35.00	2893035	45	7.22	239664	121	49.44	34376
-29	33.89	2685770	47	8.33	226331	123	50.56	32843
-27	32.78	2494694	49	9.44	213819	125	51.67	31399
-25	31.67	2318444	51	10.56	201971	127	52.78	30027
-23	30.56	2155781	53	11.67	190946	129	53.89	28722
-21	29.44	2004274	55	12.78	180588	131	55.00	27481
-19	28.33	1865595	57	13.89	170853	133	56.11	26300
-17	27.22	1737397	59	15.00	161700	135	57.22	25177
-15	26.11	1618827	61	16.11	153092	137	58.33	24107
-13	25.00	1509102	63	17.22	144992	139	59.44	23089
-11	23.89	1407512	65	18.33	137367	141	60.56	22111
-9	22.78	1313405	67	19.44	130189	143	61.67	21188
-7	21.67	1226184	69	20.56	123368	145	62.78	20308
-5	20.56	1145306	71	21.67	117000	147	63.89	19469
-3	19.44	1069620	73	22.78	110998	149	65.00	18670
-1	18.33	1000019	75	23.89	105338	151	66.11	17907
1	17.22	935383	77	25.00	100000	153	67.22	17180
3	16.11	875329	79	26.11	94963	155	68.33	16486
5	15.00	819505	81	27.22	90208	157	69.44	15824
7	13.89	767589	83	28.33	85719	159	70.56	15187
9	12.78	719284	85	29.44	81479	161	71.67	14584
11	-11.67	674319	87	30.56	77438	163	72.78	14008
13	-10.56	632442	89	31.67	73654	165	73.89	13458
15	-9.44	593086	91	32.78	70076	167	75.00	12932
17	-8.33	556739	93	33.89	66692	169	76.11	12430
19	-7.22	522842	95	35.00	63491	171	77.22	11949
21	-6.11	491217	97	36.11	60461	173	78.33	11490
23	-5.00	461699	99	37.22	57594	175	79.44	11051
25	-3.89	434134	101	38.33	54878	177	80.56	10627
27	-2.78	408383	103	39.44	52306	179	81.67	10225
29	-1.67	384316	105	40.56	49847	181	82.78	9841
31	-0.56	361813	107	41.67	47538	183	83.89	9473
33	0.56	340581	109	42.78	45349	185	85.00	9121
35	1.67	320895	111	43.89	43273	187	86.11	8783

Technician Setup

Specifications

Temperature Range.....-4°F to 140°F (-20°C to 60°C)
 Temperature Accuracy..... +/- 1°F
 Transmission..... Constant Resistance

Warranty Registration

Your new thermostat has a 5 year limited warranty. You must register your thermostat within 60 days of installation. Without this registration the warranty period will begin on date of manufacture. For warranty issues please contact the HVAC professional that installed this product. You can register your new thermostat in 2 ways:

Online

Go to the company website, select warranty registration and fill out a short registration form.

Mail

Complete the form below and mail it to the address shown.

Warranty Registration

Name: _____ Thermostat Model: _____
 Address: _____ Date Installed: _____
 City: _____ Complete form and mail to:
 State: _____ **Thermostat Warranty Registration**
 Zip: _____ PO Box 3377
 Springfield, MO 65804