

SMC Slab Sensor Installation Addendum

This addendum applies only to 6 Wire Heat-Timer SMC Slab Snow Sensor.

When replacing the old Snow Melt Slab Sensor, you will find 6 wires instead of 5 wires. Follow the wire and terminal colors as per the bottom graph or table.

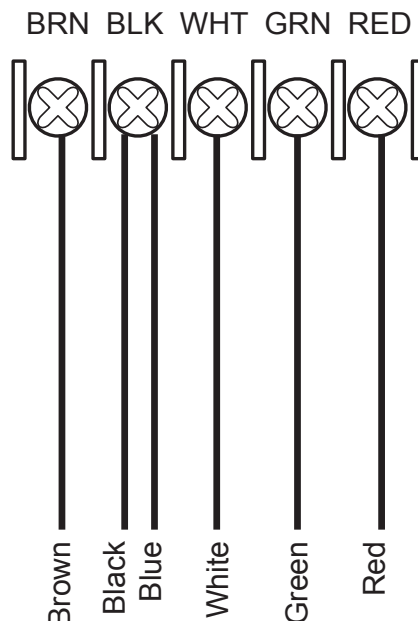
New	Function	Connect on panel to
Black	Heater ground	Black
Red	Heater power	Red
White	Heater thermistor	White
Green	Water detection	Green
Brown	Slab thermistor	Brown
Blue	Sensor ground	Black

Temperature Sensor Chart

TEMPERATURE (in Degrees °F)	Value (in Ohms Ω)
-30	117720
-20	82823
-10	59076
0	42683
10	31215
20	23089
25	19939
30	17264
35	14985
40	13040
45	11374
50	9944
55	8714
60	7653
70	5941
80	4649
90	3667
100	2914
110	2332
120	1879
130	1524
140	1243
150	1021
160	842
170	699
180	583
190	489
200	412
210	349
220	297
230	253
240	217
250	187

- The White and Blue wires registers the temperature of the slab heater. Its Ohm reading should be close to the temperature read on the Slab Temp display when control is in Melting or Idling stages. Use the Temperature Sensor Chart on the right to translate Ohms into temperature for that sensor. However, if control was not in Melting or Idling stages, the ohm reading should be between 5000Ω to 15,000Ω ohms.
- The Green and Blue wires register precipitation. If there is no precipitation, the sensor should read OPEN. If there is precipitation detected, the sensor should read from 2000Ω to 3,000,000Ω ohms. (Make sure that the sensor is clean else it will give false precipitation reading.)
- The Red and Black wires are the sensor heater. It should read from 90Ω to 110Ω ohms. If the sensor reads OPEN, the wires leading to the sensor may be broken or damaged. If the sensor reads SHORT, the wires to the panel may have become shorted together.
- If all sensor readings are correct, contact Heat-Timer factory for replacing the SMC Input Card (HTC# 900097-00)

New Snow-Melt Sensor Wiring



⚠ WARNING

If sensor readings corresponds to diagnosis, but SMC does not provide snow melting, replace Input Card #900097-00 only.