

Part Description: Probe, 20' Red Coil Out Sensor  
Assembly: 501-1126

Borgen Part Number: 65267

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# Coil Outlet Temperature Sensor

## Product Information Sheet

501-1126

### Overview

The 501-1126 is CPC's coil inlet temperature sensor. It is designed for measuring the coil temperature of an evaporator. The temperature sensor has a 10K  $\Omega$  thermistor that is enclosed in a nickel-plated brass shell with epoxy. The sensor has a red 20' pigtail. The wire is a 22 AWG CL3X cord with 2 conductors. The cable is UL rated for 194°F (90°C). The sensor has been tested by CPC to maintain less than 0.72°F error between -40 and 248°F.

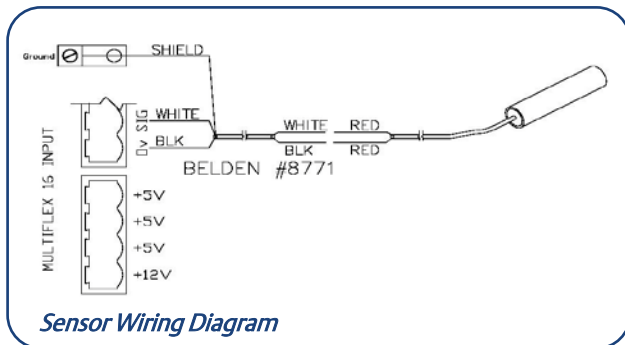


### Installation

The sensor connections to the input point on the 16AI board are not polarity sensitive. The sensor is connected as shown below in the Sensor Wiring Diagram. The sensor can be wired to any available point on the 16AI board. Connect one lead to 0V input, and connect the lead to the SIG input. The sensor has a male mulex connector for use with a TD3 or Case Controller.

The dip switch for the 16AI input should be set to the ON position.

The sensor includes a Panduit U119 cable tie. The sensor should be secured to the outlet of the evaporator coil using the cable tie provided with the sensor.



### Resistance Chart

The accuracy of the resistor can be verified using an Ohm meter. The chart below shows the resistance for various temperatures.

Temperature (°F)	Temperature (°C)	Resistance (Ohms)
-40	-40	336,450
-30	-34	234,170
-20	-29	165,210
-10	-23	118,060
0	-18	85,399
10	-12	62,493
20	-7	46,235
30	-1	34,565
40	4	26,100
50	10	19,899
60	16	15,311
70	21	11,883
80	27	9,299
90	32	7,334
100	38	5,828
110	43	4,664
120	49	3,758
130	54	3,048
140	60	2,488
150	66	2,042
160	71	1,686
170	77	1,400
180	82	1,169
190	88	981
200	93	827

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