

Hot Food Temperature Monitor

P/N 508-9121

Overview

The 508-9121 is Copeland's Hot Food Temperature Monitor. The monitor is available in black (P/N 508-9121). The temperature sensor has a 10K Ω thermistor that is enclosed in a stainless steel housing with FDA-EP2 epoxy. The sensor has a black 20' pigtail. The wire is NSF approved 22 AWG / 2 Conductor. The sensor has been tested to maintain less than 0.72°F error between 70°F and 250°F.

Do not exceed 250°F (maximum temperature 250°F).



Figure 1 - Hot Food Temperature Monitor P/N 508-9121

Installation

The sensor connections to the input point on the 16AI board are not polarity sensitive. The sensor is connected as shown in [Figure 2 - Sensor Wiring Diagram](#). The sensor can be wired to any available point on the 16AI board. Connect one lead to the 0V input, and connect the other lead to the SIG input.

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

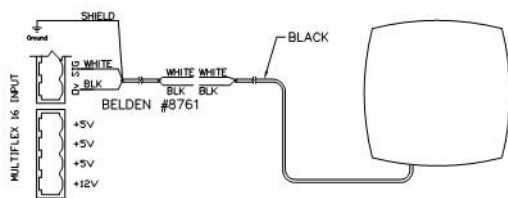


Figure 2 - Sensor Wiring Diagram

The sensor includes a plastic insulated clamp for securing the sensor. Mounting hardware is not included with the clamp. The sensor can also be secured using standard cable ties (not provided).

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)
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	2,043
160	71	1,668
170	77	1,400
180	82	1,169
190	88	981
200	93	827
210	99	701
220	104	597
230	110	511
240	116	439
250	121	378

Visit our website at copeland.com/en-us/products/controls-monitoring-systems for the latest technical documentation and updates.

For Technical Support call 833-409-7505 or email ColdChain.TechnicalServices@Copeland.com