

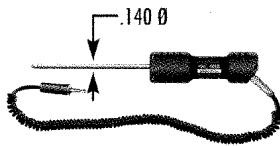


# Thermistor Probes

Cooper's expertise in probe development has allowed us to meet the needs of a variety of niche markets. Our specialty probes are featured in many catalogs from laboratories to veterinary equipment. Maybe the probe you need is here!

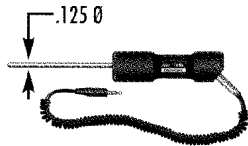
## Model 1013

Meat packing puncture probe



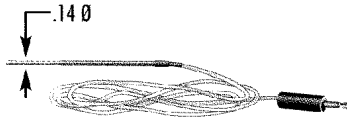
## Model 1050

Blunt tip veterinary probe



## Model 2007

Blunt tip waterproof probe



## Instructions for Extending 10K Thermistor Probe Wire Length

(Thermistor probe wire can be extended up to 1,000 feet)

The nonlinear characteristics of the temperature sensing element cause the amount of error introduced by extending the lengths of probe wire to vary as a function of three variables, the temperature being monitored, length of wire and gauge of wire. Use the following to determine the most suitable wire size for your particular application. The error factor is negative. This means your reading, as displayed by your instrument, will be lower than the actual temperature you are measuring.

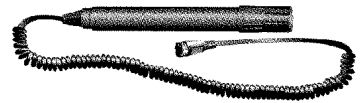
Note:

- Either solid or stranded copper wire can be used.
- Wires must be insulated.
- Connections must be soldered and taped.
- Shielded wire may be required in areas where high levels of electrical noise are present.

If your probe has a molded plug, it will be necessary to cut and splice the connection in the same manner as shown for the sensor end.

## Model 5026R

Humidity/Incubator probe



## Model 7010

Air/Surface probe with phone plug field assembly



MODELS: 1013, 1050, 2007, 5026R, 7010	
<b>Specifications: 1013/1050/2007</b>	
Temperature Range	-100° to 300°F / -73° to 149°C
Max. Tip Temperature	300°F / 149°C
Max. Cord Temperature	200°F / 93°C
Response Time	1013/1050 - 6 seconds 2007 - 18 seconds
Probe Type	Thermistor
Shaft Length	1013/2007 - 4" 1050 - 2.75"
Cord Length	1013 - 72" PVC uncoiled 1050 - 48" PVC uncoiled 2007 - 120" teflon straight cord
<b>Specifications: 5026R</b>	
Temperature Range	-100° to 150°F / -73° to 65°C
Max. Tip Temperature	150°F / 65°C
Max. Cord Temperature	200°F / 93°C
Response Time	2 minutes (measured from ambient to 200°F in hot moving air)
Probe Type	Thermistor
Shaft Length	6.25"
Cord Length	48" PVC uncoiled
<b>Specifications: 7010</b>	
Temperature Range	-100° to 200°F / -73° to 93°C
Max. Tip Temperature	200°F / 93°C
Max. Cord Temperature	200°F / 93°C
Response Time	6 seconds
Probe Type	Thermistor
Shaft Length	0.5"
Cord Length	6" PVC

Error per 1000 feet vs temperature being monitored & wire gauge				
Temperature	#26 AWG	#22 AWG	#18 AWG	#14 AWG
-31.0°F	0°	0°	0°	0°
+32.0°F	0°	0°	0°	0°
98.6°F	-.3°	-.1°	0°	0°
212.0°F	-3.8°	-1.5°	-.6°	-.2°
300.0°F	-16.9°	-6.7°	-2.7°	-1.0°