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# 310 Series Thermistor Sensors

## Operation

The 310 Sensors must be wired in series with a 320 Setpoint Adjuster or 205 Step Control (see S95 Series spec sheets). The total resistance is 2200 ohms when the setpoint equals the sensor temperature. The NTC thermistor increases resistance as temperature decreases.

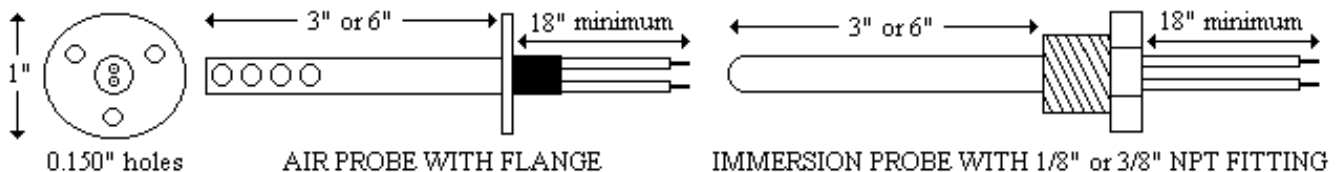


## Part Numbers:

**310 - 10 - 1 0 - 2 1 - C 0 3 B**

Series	Probe Type & Availability	Temperature	Material	Length
Thermistor	10 = air probe with flange (stainless steel only)	21 = 0-100°F 41 = 50-150°F	C = copper S = 304 stain- less steel	03 = 3.0" 06 = 6.0"
<b>Typical</b>	40 = 3/8" NPT immersion (all materials & lengths)	43 = 50-180°F 47 = 100-210°F		
<b>Applications</b>	(see note below)	51 = 120-250°F 55 = 150-250°F		<b>Diameter</b> B = 0.275" typical
Duct heaters				
Boilers	41 = 1/8" NPT immersion (3" lengths only)			
Process heaters				

**Note:** 310-10-40-51-S15B (1.5" length) is available for use in INDEECO boilers.



## INDEECO CONTROLS

425 Hanley Industrial Court  
St. Louis, MO 63144

phone: 314-644-4300  
fax: 314-644-5332  
sales@indeeco.com

[www.indeeco.com](http://www.indeeco.com)

Temperature	Resistance at 77°F	Change in Resistance
21 = 0-100°F	1085 ohms +/- 10%	14.0 Ω / °F near 77°F
41 = 50-150°F	1248 ohms +/- 10%	9.5 Ω / °F near 125°F
43 = 50-180°F	1916 ohms +/- 10%	12.0 Ω / °F near 125°F
47 = 100-210°F	1248 ohms +/- 10%	6.5 Ω / °F near 150°F
51 = 120-250°F	2372 ohms +/- 10%	21.0 Ω / °F near 180°F
55 = 150-250°F	2990 ohms +/- 10%	14.5 Ω / °F near 180°F