

Distributor

 where technologies meet solutions

info@amstechnologies.com
 www.amstechnologies-webshop.com

Contact us 

OVENindustries

ELECTRONIC CONTROL SOLUTIONS

MODEL TR165 RoHS THERMISTOR SENSOR PROBES

Thermistor is a generic term describing a semiconductor device that exhibits an electrical conductivity that is highly sensitive to temperature. The name was derived from the words, thermally sensitive resistor. These devices may be either *positive temperature coefficient (PTC)* or *negative temperature coefficient (NTC)* with respect to their resistance characteristics with temperature.

Oven Industries' Model TR165 RoHS Thermistor sensors have an NTC type resistance versus temperature characteristic. In addition, they have a matched resistance versus temperature curve and are interchangeable from one Thermistor to another per the specified tolerance. **Custom wire length is available.**

Thermistor Specifications:

Base Resistance At 25°C: 231.5K Ω
 Interchangeable Tolerance: ±1.0°C over a 100°C to 200°C Temp Range & ±1.5°C over a 25°C to 250°C Temp range

TEMPERATURE (°C) VS. RESISTANCE (Ω) CHART

25.0	231438.2	57.0	59508.3	89.0	18733.7	121.0	6935.4	153.0	2928.6	185.0	1377.8	218.0	695.3
26.0	221032.6	58.0	57235.5	90.0	18119.7	122.0	6738.6	154.0	2856.1	186.0	1347.8	219.0	681.9
27.0	211147.1	59.0	55060.2	91.0	17528.5	123.0	6548.2	155.0	2785.6	187.0	1318.5	220.0	668.9
28.0	201753.2	60.0	52977.8	92.0	16959.3	124.0	6363.9	156.0	2717.1	188.0	1290.0	221.0	656.1
29.0	192824.2	61.0	50984.1	93.0	16411.1	125.0	6185.6	157.0	2650.6	189.0	1262.2	222.0	643.6
30.0	184334.8	62.0	49074.7	94.0	15883.0	126.0	6013.1	158.0	2586.0	190.0	1235.1	223.0	631.4
31.0	176261.5	63.0	47245.8	95.0	15374.3	127.0	5846.1	159.0	2523.2	191.0	1208.7	224.0	619.5
32.0	168581.8	64.0	45493.6	96.0	14884.1	128.0	5684.4	160.0	2462.2	192.0	1183.0	225.0	607.9
33.0	161274.8	65.0	43814.6	97.0	14411.7	129.0	5527.9	161.0	2402.9	193.0	1157.9	226.0	596.5
34.0	154320.7	66.0	42205.4	98.0	13956.4	130.0	5376.3	162.0	2345.3	194.0	1133.4	227.0	585.3
35.0	147700.8	67.0	40662.8	99.0	13517.5	131.0	5229.6	163.0	2289.3	195.0	1109.6	228.0	574.4
36.0	141397.6	68.0	39183.7	100.0	13094.3	132.0	5087.4	164.0	2234.8	196.0	1086.3	229.0	563.8
37.0	135394.3	69.0	37765.4	101.0	12686.2	133.0	4949.7	165.0	2181.9	197.0	1063.6	230.0	553.4
38.0	129675.0	70.0	36404.9	102.0	12292.7	134.0	4816.3	166.0	2130.4	198.0	1041.5	231.0	543.2
39.0	124226.1	71.0	35099.7	103.0	11913.0	135.0	4687.1	167.0	2080.3	199.0	1019.9	232.0	533.2
40.0	119032.5	72.0	33847.4	104.0	11546.8	136.0	4561.8	168.0	2031.6	200.0	998.8	233.0	523.5
41.0	114081.0	73.0	32645.5	105.0	11193.4	137.0	4440.4	169.0	1984.3	201.0	978.3	234.0	514.0
42.0	109360.3	74.0	31491.9	106.0	10852.3	138.0	4322.8	170.0	1938.2	202.0	958.2	235.0	504.7
43.0	104857.6	75.0	30384.2	107.0	10523.1	139.0	4208.7	171.0	1893.4	203.0	938.7	236.0	495.5
44.0	100562.2	76.0	29320.7	108.0	10205.4	140.0	4098.2	172.0	1849.8	204.0	919.6	237.0	486.6
45.0	96463.6	77.0	28229.2	109.0	9898.6	141.0	3991.0	173.0	1807.3	205.0	901.0	238.0	477.9
46.0	92551.8	78.0	27318.0	110.0	9602.3	142.0	3887.0	174.0	1766.0	206.0	882.8	239.0	469.3
47.0	88817.6	79.0	26375.3	111.0	9316.3	143.0	3786.2	175.0	1725.8	207.0	865.0	240.0	461.0
48.0	85252.0	80.0	25469.4	112.0	9039.9	144.0	3688.3	176.0	1686.7	208.0	847.7	241.0	452.8
49.0	81846.8	81.0	24598.7	113.0	8773.0	145.0	3593.5	177.0	1648.6	209.0	830.8	242.0	444.8
50.0	78593.9	82.0	23761.8	114.0	8515.0	146.0	3501.4	178.0	1611.5	210.0	814.3	243.0	437.0
51.0	75485.9	83.0	22957.1	115.0	8265.8	147.0	2412.1	179.0	1575.4	211.0	798.1	244.0	429.3
52.0	72515.7	84.0	22183.3	116.0	8024.9	148.0	3325.4	180.0	1540.3	212.0	782.4	245.0	421.8
53.0	69676.5	85.0	21439.1	117.0	7792.1	149.0	3241.3	181.0	1506.1	213.0	767.0	246.0	414.4
54.0	66962.1	86.0	20723.2	118.0	7567.0	150.0	3159.6	182.0	1472.7	214.0	752.0	247.0	407.2
55.0	64366.4	87.0	20034.4	119.0	7349.4	151.0	3080.3	183.0	1440.2	215.0	737.3	248.0	400.2
56.0	61883.6	88.0	19371.6	120.0	7139.0	152.0	3003.4	184.0	1408.6	216.0	723.0	249.0	393.3
										217.0	709.0	250.0	386.5

Sensor Mechanical Sheet for TR165 Sensor

