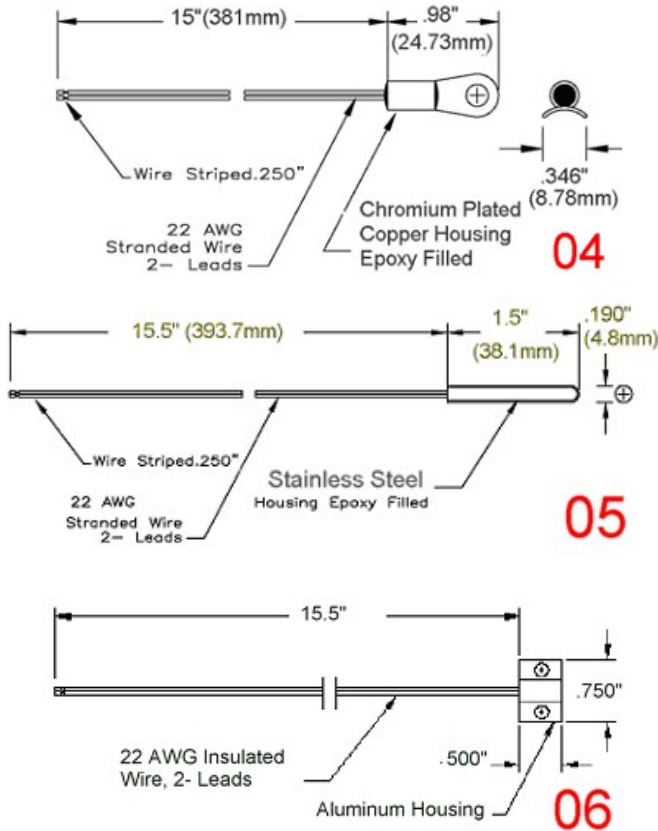


NTC Pipe Sensor

Western Electronic Components' NTC Pipe Sensor Probes are ruggedly designed to withstand a variety of environmental conditions when used for temperature measurement and control of heating systems. They also incorporate interchangeable NTC Thermistors for excellent accuracy and interchangeability over a large temperature range.

Physical Specification



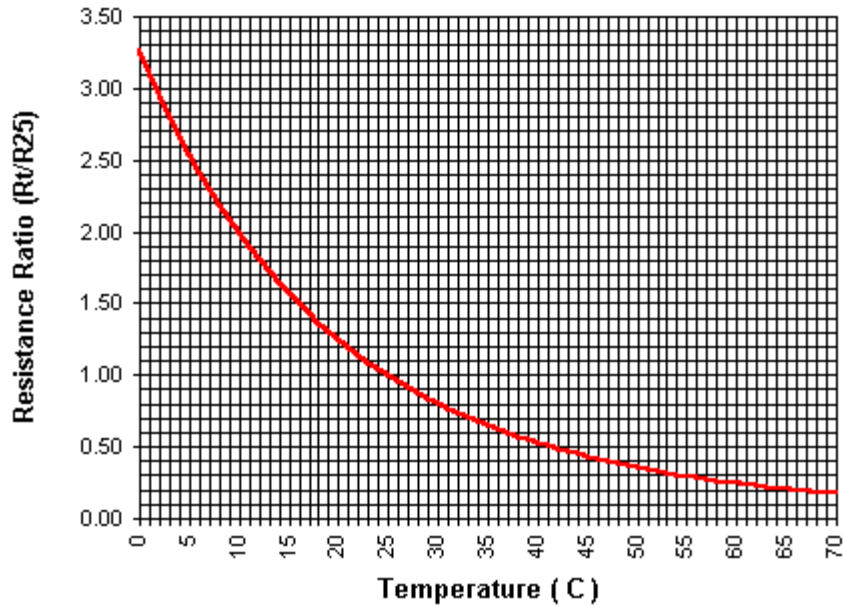
Electrical Specification Table

Ω @ 25 °C	Resistance Tolerance @ 25 C			Curve Type
	$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	
	PART NUMBER	PART NUMBER	PART NUMBER	(see table below)
10,000	WNP20107-01-xx	WNP20107-02-xx	WNP20107-04-xx	H
20,000	WNP20108-01-xx	WNP20108-02-xx	WNP20108-04-xx	H

Note: Add Housing Dash Number to Part Number

Example: WNP20107-02-05 : 10K Ω @ 25 °C, $\pm 2\%$ Tolerance and (0.190" Diameter x 1.50" Long Stainless Steel Housing)

Interchangeable Thermistor Curve (Curve "H")
Resistance Ratio - Temperature



INTERCHANGEABLE THERMISTOR DATA

Curve "H" (0-70 in 1°C increments)

Resistance Ratio vs Temperature

Temperature		Resistance Ratio (R/R25)	Temperature		Resistance
°C	°F		°C	°C	
0	32	3.2657	36	97	0.6268
1	34	3.1036	37	99	0.6016
2	36	2.9505	38	100	0.5776
3	37	2.8058	39	102	0.5546
4	39	2.6690	40	104	0.5327
5	41	2.5396	41	106	0.5117
6	43	2.4174	42	108	0.4918
7	45	2.3018	43	109	0.4726
8	46	2.1922	44	111	0.4543
9	48	2.0886	45	113	0.4369
10	50	1.9904	46	115	0.4201
11	52	1.8974	47	117	0.4041
12	54	1.8093	48	118	0.3889
13	55	1.7258	49	120	0.3742
14	57	1.6465	50	122	0.3602
15	59	1.5715	51	124	0.3467
16	61	1.5003	52	126	0.3340
17	63	1.4327	53	127	0.3217
18	64	1.3684	54	129	0.3099
19	66	1.3074	55	131	0.2986
20	68	1.2495	56	133	0.2878
21	70	1.1944	57	135	0.2774
22	72	1.1421	58	136	0.2675
23	73	1.0923	59	138	0.2580
24	75	1.0451	60	140	0.2488
25	77	1.0000	61	142	0.2400
26	79	0.9573	62	144	0.2316
27	81	0.9166	63	145	0.2235
28	82	0.8778	64	147	0.2157
29	84	0.8409	65	149	0.2083
30	86	0.8057	66	151	0.2011
31	88	0.7722	67	153	0.1941
32	90	0.7403	68	154	0.1876
33	91	0.7099	69	156	0.1813
34	93	0.6809	70	158	0.1752
35	95	0.6532			

INTERCHANGEABLE THERMISTOR DATA

Curve "H" (5°C Increments)

Resistance Ratio vs Temperature

Temperature		Resistance	Temperature		Resistance
°C	°F	Ratio (R/R25)	°C	°F	Ratio (R/R25)
-50	-58	67.260	55	131	0.2987
-45	-49	47.337	60	140	0.2488
-40	-40	33.727	65	149	0.2084
-35	-31	24.312	70	158	0.1753
-30	-22	17.721	75	167	0.1482
-25	-13	13.054	80	176	0.1257
-20	-4	9.714	85	185	0.1072
-15	5	7.299	90	194	0.09174
-10	14	5.535	95	203	0.07882
-5	23	4.234	100	212	0.06798
0	32	3.266	105	221	0.05884
5	41	2.540	110	230	0.05110
10	50	1.990	115	239	0.04454
15	59	1.571	120	248	0.03894
20	68	1.249	125	257	0.03416
25	77	1.000	130	266	0.03005
30	86	0.8055	135	275	0.02652
35	95	0.6531	140	284	0.02347
40	104	0.5325	145	293	0.02082
45	113	0.4368	150	302	0.01853
50	122	0.3602			