



NTC 10K Ω 3950 Temperature Probe

The Thermistor is a solid state temperature sensing device that acts a bit like an electrical resistor but is temperature sensitive. Thermistors can be used to produce an analogue output voltage with variations in ambient temperature and as such can be referred to as a temperature sensor. This is because it creates a change in its electrical properties due to a physical change in heat.



SKU: [SSR-1016](#)

Brief Data:

- Resistance at 25°C: 10K Ω \pm 1%.
- B25/50: 3950 \pm 1%.
- Thermal time constant: 15 seconds.
- Thermistor temperature range: -20°C to 125°C.
- Connector Type: 2-pin XH2.54.
- 26 AWG PVC Wire.
- Probe Dimension: \varnothing 5 x 30mm.
- Probe Construction: Epoxy Filled Waterproof.
- Cable Length: 100cm.

Mechanical Dimension:



Web Resources:

- [Thermistor Tutorial with Arduino](#)

Resistance @ 25°C = 10KΩ		$B_{B25/50}=3950K$									
T(°C)	R(KΩ)	T(°C)	R(KΩ)	T(°C)	R(KΩ)	T(°C)	R(KΩ)	T(°C)	R(KΩ)	T(°C)	R(KΩ)
-40	277.2	1	30.25	42	4.915	83	1.128	124	0.3434	165	0.1265
-39	263.6	2	28.82	43	4.723	84	1.093	125	0.3341	166	0.1239
-38	250.1	3	27.45	44	4.539	85	1.059	126	0.3253	167	0.1213
-37	236.8	4	26.16	45	4.363	86	1.027	127	0.3167	168	0.1187
-36	224.0	5	24.94	46	4.195	87	0.9955	128	0.3083	169	0.1163
-35	211.5	6	23.77	47	4.034	88	0.9654	129	0.3002	170	0.1139
-34	199.6	7	22.67	48	3.880	89	0.9363	130	0.2924	171	0.1115
-33	188.1	8	21.62	49	3.733	90	0.9083	131	0.2848	172	0.1092
-32	177.3	9	20.63	50	3.592	91	0.8812	132	0.2774	173	0.1070
-31	167.0	10	19.68	51	3.457	92	0.8550	133	0.2702	174	0.1048
-30	157.2	11	18.78	52	3.328	93	0.8297	134	0.2633	175	0.1027
-29	148.1	12	17.93	53	3.204	94	0.8052	135	0.2565	176	0.1006
-28	139.4	13	17.12	54	3.086	95	0.7816	136	0.2500	177	0.0986
-27	131.3	14	16.35	55	2.972	96	0.7587	137	0.2437	178	0.0966
-26	123.7	15	15.62	56	2.863	97	0.7366	138	0.2375	179	0.0947
-25	116.6	16	14.93	57	2.759	98	0.7152	139	0.2316	180	0.0928
-24	110.0	17	14.26	58	2.659	99	0.6945	140	0.2258	181	0.0909
-23	103.7	18	13.63	59	2.564	100	0.6744	141	0.2202	182	0.0891
-22	97.9	19	13.04	60	2.472	101	0.6558	142	0.2148	183	0.0873
-21	92.50	20	12.47	61	2.384	102	0.6376	143	0.2095	184	0.0856
-20	87.43	21	11.92	62	2.299	103	0.6199	144	0.2044	185	0.0839
-19	82.79	22	11.41	63	2.218	104	0.6026	145	0.1994	186	0.0822
-18	78.44	23	10.91	64	2.141	105	0.5858	146	0.1946	187	0.0806
-17	74.36	24	10.45	65	2.066	106	0.5694	147	0.1900	188	0.0790
-16	70.53	25	10.00	66	1.994	107	0.5535	148	0.1855	189	0.0774
-15	66.92	26	9.575	67	1.926	108	0.5380	149	0.1811	190	0.0759
-14	63.54	27	9.170	68	1.860	109	0.5229	150	0.1769	191	0.0743
-13	60.34	28	8.784	69	1.796	110	0.5083	151	0.1728	192	0.0729
-12	57.33	29	8.416	70	1.735	111	0.4941	152	0.1688	193	0.0714
-11	54.50	30	8.064	71	1.677	112	0.4803	153	0.1650	194	0.0700
-10	51.82	31	7.730	72	1.621	113	0.4669	154	0.1612	195	0.0686
-9	49.28	32	7.410	73	1.567	114	0.4539	155	0.1576	196	0.0672
-8	46.89	33	7.106	74	1.515	115	0.4412	156	0.1541	197	0.0658
-7	44.62	34	6.815	75	1.465	116	0.4290	157	0.1507	198	0.0645
-6	42.48	35	6.538	76	1.417	117	0.4171	158	0.1474	199	0.0631
-5	40.45	36	6.273	77	1.371	118	0.4055	159	0.1441	200	0.0619
-4	38.53	37	6.020	78	1.326	119	0.3944	160	0.1410		
-3	36.70	38	5.778	79	1.284	120	0.3835	161	0.1379		
-2	34.97	39	5.548	80	1.243	121	0.3730	162	0.1350		
-1	33.33	40	5.327	81	1.203	122	0.3628	163	0.1321		
0	31.77	41	5.117	82	1.165	123	0.3530	164	0.1293		



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