Resistance value and voltage list for 15K temp. sensor

Temp. (℃)	Resistance (KΩ)	Voltage(v) *15K	Voltage(v) *8.1K	Temp. (℃)	Resistance (KΩ)	Voltage(v) *15K	Voltage(v) *8.1K	Temp. (℃)	Resistance (KΩ)	Voltage(v) *15K	Voltage(v) *8.1K
-20	147.69	0.46	0.26	32	11.0917	2.87	2.11	84	1.6417	4.51	4.16
-19	139.298	0.49	0.27	33	10.6341	2.93	2.16	85	1.5904	4.52	4.18
-18	131.436	0.51	0.29	34	10.1979	2.98	2.21	86	1.541	4.53	4.2
-17	124.067	0.54	0.31	35	9.7819	3.03	2.26	87	1.4933	4.55	4.22
-16	117.158	0.57	0.32	36	9.3851	3.08	2.32	88	1.4474	4.56	4.24
-15	110.677	0.6	0.34	37	9.0066	3.12	2.37	89	1.403	4.57	4.26
-14	104.594	0.63	0.36	38	8.6453	3.17	2.42	90	1.3603	4.58	4.28
-13	98.8834	0.66	0.38	39	8.3004	3.22	2.47	91	1.3191	4.6	4.3
-12	93.5199	0.69	0.4	40	7.9711	3.26	2.52	92	1.2793	4.61	4.32
-11	88.4804	0.72	0.42	41	7.6565	3.31	2.57	93	1.2409	4.62	4.34
-10	83.7433	0.76	0.44	42	7.3561	3.35	2.62	94	1.2038	4.63	4.35
-9	79.2888	0.8	0.46	43	7.069	3.4	2.67	95	1.1681	4.64	4.37
-8	75.0984	0.83	0.49	44	6.7946	3.44	2.72	96	1.1335	4.65	4.39
-7	71.1548	0.87	0.51	45	6.5323	3.48	2.77	97	1.1002	4.66	4.4
-6	67.4422	0.91	0.54	46	6.2815	3.52	2.82	98	1.068	4.67	4.42
-5	63.9457	0.95	0.56	47	6.0416	3.56	2.86	99	1.0369	4.68	4.43
-4	60.6514	0.99	0.59	48	5.8121	3.6	2.91	100	1.0068	4.69	4.45
-3	57.5465	1.03	0.62	49	5.5925	3.64	2.96	101	0.9778	4.69	4.46
-2	54.6191	1.08	0.65	50	5.3823	3.68	3	102	0.9497	4.7	4.48
-1	51.858	1.12	0.68	51	5.1804	3.72	3.05	103	0.9225	4.71	4.49
0	49.2528	1.17	0.71	52	4.9872	3.75	3.09	104	0.8963	4.72	4.5
1	46.7926	1.21	0.74	53	4.8023	3.79	3.14	105	0.871	4.73	4.51
2	44.47	1.26	0.77	54	4.6252	3.82	3.18	106	0.848	4.73	4.53
3	42.2765	1.31	0.8	55	4.4556	3.85	3.23	107	0.825	4.74	4.54
4	40.2043	1.36	0.84	56	4.2931	3.89	3.27	108	0.802	4.75	4.55
5	38.246	1.41	0.87	57	4.1374	3.92	3.31	109	0.779	4.75	4.56
6	36.3946	1.46	0.91	58	3.9882	3.95	3.35	110	0.758	4.76	4.57
7	34.6438	1.51	0.95	59	3.8452	3.98	3.39	111	0.737	4.77	4.58
8	32.9875	1.56	0.99	60	3.708	4.01	3.43	112	0.717	4.77	4.59
9	31.42	1.62	1.02	61	3.5765	4.04	3.47	113	0.697	4.78	4.6
10	29.9362	1.67	1.06	62	3.4503	4.06	3.51	114	0.678	4.78	4.61
11	28.531	1.72	1.11	63	3.3293	4.09	3.54	115	0.66	4.79	4.62
12	27.2	1.78	1.15	64	3.2131	4.12	3.58	116	0.642	4.79	4.63
13	25.9387	1.83	1.19	65	3.1016	4.14	3.62	117	0.625	4.8	4.64
14	24.7432	1.89	1.23	66	2.9945	4.17	3.65	118	0.608	4.81	4.65
15	23.6097	1.94	1.28	67	2.8917	4.19	3.68	119	0.592	4.81	4.66
16	22.5345	2	1.32	68	2.7929	4.22	3.72	120	0.577	4.81	4.67
17	21.5144	2.05	1.37	69	2.698	4.24	3.75	121	0.561	4.82	4.68
18	20.5463	2.11	1.41	70	2.6069	4.26	3.78	122	0.547	4.82	4.68
19	19.6272	2.17	1.46	71	2.5193	4.28	3.81	123	0.532	4.83	4.69
20	18.7545	2.22	1.51	72	2.435	4.3	3.84	124	0.519	4.83	4.7
21	17.9254	2.28	1.56	73	2.3541	4.32	3.87	125	0.505	4.84	4.71
22	17.1376	2.33	1.6	74	2.2762	4.34	3.9	126	0.492	4.84	4.71
23	16.3889	2.39	1.65	75	2.2013	4.36	3.93	127	0.48	4.85	4.72
24	15.677	2.44	1.7	76	2.1292	4.38	3.96	128	0.467	4.85	4.73
25	15	2.5	1.75	77	2.0599	4.4	3.99	129	0.456	4.85	4.73
26	14.356	2.55	1.8	78	1.9932	4.41	4.01	130	0.444	4.86	4.74
27	13.7431	2.61	1.85	79	1.9289	4.43	4.04	131	0.433	4.86	4.75
28	13.1598	2.66	1.91	80	1.8671	4.45	4.06	132	0.422	4.86	4.75
29	12.6045	2.72	1.96	81	1.8076	4.46	4.09	133	0.412	4.87	4.76
30	12.0756	2.77	2.01	82	1.7502	4.48	4.11	134	0.401	4.87	4.76
31	11.5718	2.82	2.06	83	1.6949	4.49	4.13	135	0.391	4.87	4.77

Note: the above voltage values are in the conditions that power voltage is 5V and partial pressure resistance is 15k or 8.1k.

Resistance value and voltage list for 20K temp. sensor

Temp. (℃)	Resistance (KΩ)	Voltage(v) *15K	Temp. (℃)	Resistance (KΩ)	Voltage(v) *8.1K	Temp. (℃)	Resistance (KΩ)	Voltage(v) *8.1K
-20	192	0.47	32	14.79	2.87	84	2.194	4.51
-19	181.4	0.5	33	14.18	2.93	85	2.125	4.52
-18	171.4	0.52	34	13.59	2.98	86	2.059	4.53
-17	162.1	0.55	35	13.04	3.03	87	1.996	4.55
-16	153.3	0.58	36	12.51	3.08	88	1.934	4.56
-15	145	0.61	37	12	3.13	89	1.875	4.57
-14	137.2	0.64	38	11.52	3.17	90	1.818	4.58
-13	129.9	0.67	39	11.06	3.22	91	1.736	4.6
-12	123	0.7	40	10.62	3.27	92	1.71	4.61
-11	116.5	0.73	41	10.2	3.31	93	1.658	4.62
-10	110.3	0.77	42	9.803	3.36	94	1.609	4.63
-9	104.6	0.8	43	9.42	3.4	95	1.561	4.64
-8	99.13	0.84	44	9.054	3.44	96	1.515	4.65
-7	94	0.88	45	8.705	3.48	97	1.47	4.66
-6	89.17	0.92	46	8.37	3.52	98	1.427	4.67
-5	84.61	0.96	47	8.051	3.56	99	1.386	4.68
-4	80.31	1	48	7.745	3.6	100	1.346	4.68
-3	76.24	1.04	49	7.453	3.64	101	1.307	4.69
-2	72.41	1.08	50	7.173	3.68	102	1.269	4.7
-1	68.79	1.13	51	6.905	3.72	103	1.233	4.71
0	65.37	1.17	52	6.648	3.75	104	1.198	4.72
1	62.13	1.22	53	6.403	3.79	105	1.164	4.73
2	59.08	1.26	54	6.167	3.82	106	1.131	4.73
3	56.19	1.31	55	5.942	3.85	107	1.099	4.74
4	53.46	1.36	56	5.726	3.89	108	1.069	4.75
5	50.87	1.41	57	5.519	3.92	109	1.039	4.75
6	48.42	1.46	58	5.32	3.95	110	1.01	4.76
7	46.11	1.51	59	5.13	3.98	111	0.9825	4.77
8	43.92	1.56	60	4.948	4.01	112	0.9556	4.77
9	41.84	1.62	61	4.773	4.04	113	0.9295	4.78
10	39.87	1.67	62	4.605	4.06	114	0.9043	4.78
11	38.01	1.72	63	4.443	4.09	115	0.8799	4.79
12	36.24	1.78	64	4.289	4.12	116	0.8562	4.79
13	34.57	1.83	65	4.14	4.14	117	0.8333	4.8
14	32.98	1.89	66	3.998	4.17	118	0.8111	4.81
15	31.47	1.94	67	3.861	4.19	119	0.7695	4.81
16	30.04	2	68	3.729	4.21	120	0.7687	4.81
17	28.68	2.05	69	3.603	4.24	121	0.7455	4.82
18	27.39	2.11	70	3.481	4.26	122	0.7289	4.82
19	26.17	2.17	71	3.364	4.28	123	0.7099	4.83
20	25.01	2.22	72	3.252	4.3	124	0.6915	4.83
21	23.9	2.28	73	3.144	4.32	125	0.6738	4.84
22	22.85	2.33	74	3.04	4.34	126	0.6583	4.84
23	21.85	2.39	75	2.94	4.36	127	0.6395	4.85
24	20.9	2.44	76	2.844	4.38	128	0.6232	4.85
25	20	2.5	77	2.752	4.4	129	0.6074	4.85
26	19.14	2.55	78	2.663	4.41	130	0.5921	4.86
27	18.13	2.62	79	2.577	4.43	131	0.5772	4.86
28	17.55	2.66	80	2.495	4.45	132	0.5627	4.86
29	16.8	2.72	81	2.415	4.46	133	0.5487	4.87
30	16.1	2.77	82	2.339	4.48	134	0.5351	4.87
31	15.43	2.82	83	2.265	4.49	135	0.5212	4.87

Note: the above voltage values are in the conditions that power voltage is 5V and partial pressure resistance is 20k.

Resistance value and voltage list for 50K temp. sensor

Temp. (℃)	Resistance (KΩ)	Voltage(v) *15K	Temp. (℃)	Resistance (KΩ)	Voltage(v) *8.1K	Temp. (℃)	Resistance (KΩ)	Voltage(v) *8.1K
-20	484.5536	0.04	32	36.9866	0.52	84	5.4621	2.2
-19	457.3636	0.05	33	35.4618	0.54	85	5.2908	2.24
-18	431.8647	0.05	34	34.0079	0.56	86	5.1257	2.28
-17	407.9418	0.05	35	32.6212	0.58	87	4.9665	2.32
-16	385.4885	0.06	36	31.2983	0.6	88	4.8131	2.36
-15	364.4061	0.06	37	30.0359	0.63	89	4.6651	2.4
-14	344.6029	0.06	38	28.8309	0.65	90	4.5224	2.44
-13	325.9941	0.07	39	27.6805	0.67	91	4.3847	2.48
-12	308.5007	0.07	40	26.582	0.7	92	4.2518	2.51
-11	292.0497	0.07	41	25.5326	0.72	93	4.1236	2.55
-10	276.573	0.08	42	24.5301	0.75	94	3.9999	2.59
-9	262.0074	0.08	43	23.572	0.77	95	3.8805	2.63
-8	248.2941	0.09	44	22.6562	0.8	96	3.7652	2.67
-7	235.3787	0.09	45	21.7806	0.82	97	3.6538	2.7
-6	223.2101	0.09	46	20.9433	0.85	98	3.5463	2.74
-5	211.741	0.1	47	20.1424	0.88	99	3.4424	2.78
-4	200.9274	0.1	48	19.3761	0.91	100	3.3421	2.81
-3	190.7282	0.11	49	18.6428	0.94	101	3.2451	2.85
-2	181.1052	0.12	50	17.9409	0.97	102	3.1513	2.89
-1	172.0225	0.12	51	17.2683	1	103	3.0607	2.92
0	163.447	0.13	52	16.6244	1.03	104	2.9731	2.96
1	155.3267	0.13	53	16.008	1.06	105	2.8884	2.99
2	147.6573	0.14	54	15.4177	1.09	106	2.8065	3.03
3	140.4114	0.15	55	14.8522	1.12	107	2.7273	3.06
4	133.5631	0.16	56	14.3105	1.16	108	2.6507	3.09
5	127.0885	0.16	57	13.7913	1.19	109	2.5766	3.13
6	120.9652	0.17	58	13.2937	1.22	110	2.5049	3.16
7	115.172	0.18	59	12.8167	1.26	111	2.4355	3.19
8	109.6896	0.19	60	12.3592	1.29	112	2.3683	3.22
9	104.4994	0.2	61	11.9204	1.33	113	2.3033	3.26
10	99.5843	0.21	62	11.4994	1.36	114	2.2403	3.29
11	94.9283	0.22	63	11.0955	1.4	115	2.1794	3.32
12	90.5162	0.23	64	10.7078	1.43	116	2.1203	3.35
13	86.3341	0.24	65	10.3357	1.47	117	2.0632	3.38
14	82.3687	0.25	66	9.9784	1.51	118	2.0078	3.41
15	78.6076	0.26	67	9.6352	1.54	119	1.9541	3.44
16	75.0392	0.27	68	9.3056	1.58	120	1.9021	3.47
17	71.6526	0.28	69	8.9889	1.62	121	1.8518	3.49
18	68.4376	0.3	70	8.6846	1.66	122	1.8029	3.52
19	65.3846	0.31	71	8.3921	1.69	123	1.7556	3.55
20	62.4845	0.32	72	8.111	1.73	124	1.7097	3.58
21	59.729	0.34	73	7.8406	1.77	125	1.6653	3.6
22	57.11	0.35	74	7.5807	1.81	126	1.6221	3.63
23	54.6202	0.36	75	7.3306	1.85	127	1.5803	3.66
24	52.2524	0.38	76	7.09	1.89	128	1.5397	3.68
25	50	0.4	77	6.8585	1.93	129	1.5003	3.71
26	47.8569	0.41	78	6.6357	1.97	130	1.4621	3.73
27	45.8171	0.43	79	6.4212	2.01	131	1.4251	3.76
28	43.8752	0.45	80	6.2147	2.04	132	1.3891	3.78
29	42.0259	0.46	81	6.0159	2.08	133	1.3542	3.8
30	40.2644	0.48	82	5.8243	2.12	134	1.3203	3.83
31	38.5861	0.5	83	5.6398	2.16	135	1.2874	3.85

Note: the above voltage values are in the conditions that power voltage is 5V and partial pressure resistance is 4.3k.