

Temperature-Resistance Tables for Common Building & Energy Management Systems Temperature Sensors



Temperature °C	Sensor Resistance in Ohms (Ω)						
	10k3A1	QAA	PT1000	1k7A1	2.2k3A1	3k3A1	5k3A1
-50	667828.00	-	803.00	39486.00	150395.00	200348.00	333914.00
-40	335671.00	830.83	843.00	21681.00	75593.00	100701.00	167835.50
-30	176683.00	871.69	882.00	12382.00	39789.00	53005.00	88341.50
-20	96974.00	913.48	921.00	7329.00	21839.00	29092.00	48487.00
-10	55298.00	956.24	961.00	4482.00	12453.00	16589.00	27649.00
0	32650.00	1000.00	1000.00	2825.00	7353.00	9795.00	16325.50
10	19904.00	1044.79	1039.00	1830.00	4482.00	5971.00	9951.50
20	12494.00	1090.65	1078.00	1216.00	2814.00	3748.00	6246.80
30	8056.00	1137.61	1117.00	827.00	1814.00	2417.00	4028.40
40	5325.00	1185.71	1155.00	574.70	1199.00	1598.00	2662.40
50	3601.00	1234.97	1194.00	407.40	810.90	1080.00	1800.49
60	2487.00	1285.44	1232.00	294.10	560.10	746.20	1243.53
70	1751.00	1337.14	1271.00	216.00	394.50	525.50	875.80
80	1256.00	1390.12	1309.00	161.20	282.90	376.90	627.60
90	916.10	1444.39	1347.00	122.00	206.30	274.80	457.72
100	678.60	1500.00	1385.00	93.70	152.80	203.60	339.32
110	510.10	1556.98	1423.00	72.80	114.90	153.00	255.50
120	388.60	1615.36	1461.00	57.30	87.51	116.60	194.30
130	300.00	1675.18	1498.00	45.60	67.52	89.95	150.00
140	234.10	1736.47	1536.00	36.60	52.72	70.23	117.05
150	184.80	1799.26	1573.00	29.80	41.61	55.44	92.40

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Temperature °C	Sensor Resistance in Ohms (Ω)						
	10k4A1	20k6A1	30k6A1	50k6A1	100k6A1	S7k6	UUT
-50	441667.00	1336000.00	2497000.00	4168000.00	8337000.00	9852.00	-
-40	239831.00	671342.00	1219000.00	2033000.00	4067000.00	9711.00	1204700.00
-30	135233.00	353366.00	622911.00	1038000.00	2077000.00	9465.00	619200.00
-20	78930.00	193948.00	331876.00	553243.00	1106000.00	9066.00	331020.00
-10	47549.00	110596.00	183697.00	306183.00	612366.00	8471.00	183560.00
0	29490.00	65300.00	105305.00	175508.00	351017.00	7660.00	105310.00
10	18787.00	39808.00	62347.00	103903.00	207807.00	6666.00	62355.00
20	12268.00	24988.00	38019.00	63364.00	126729.00	5573.00	38022.00
30	8197.00	16112.00	23828.00	39714.00	79428.00	4492.00	23827.00
40	5594.00	10650.00	15317.00	25529.00	51058.00	3517.00	15314.00
50	3893.00	7202.00	10079.00	16799.00	33598.00	2702.00	10077.00
60	2760.00	4974.00	6777.00	11297.00	22593.00	2055.00	6777.00
70	1990.00	3502.00	4650.00	7751.00	15520.00	1562.00	4650.60
80	1458.00	2512.00	3251.00	5419.00	10837.00	1193.00	3251.10
90	1084.00	1832.00	2313.00	3855.00	7710.00	922.30	2312.30
100	817.20	1358.00	1672.00	2787.00	5574.00	722.70	1670.80
110	624.10	1020.00	1228.00	2046.00	4092.00	574.90	1224.90
120	482.50	777.20	914.60	1523.00	3047.00	466.20	909.99
130	377.20	600.00	690.20	1149.00	2299.00	384.60	684.30
140	298.10	468.20	527.40	878.20	1756.00	323.20	520.29
150	238.00	369.60	407.70	678.80	1357.00	277.10	399.57