

R-T Characteristics

Sensor Type	Nominal Resistance	Sensitivity	E+E Order Code
Ni1000 TK6180 DIN B	R ₀ : 1000 Ω	TC: 6 180 ppm/K	TP9

Tabulated R-T Characteristics

- According to supplier's specifications
- Based on DIN 43760
- Resistance values in Ω

T [°C]	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-60	695.20									
-50	742.55	737.75	732.97	728.20	723.44	718.70	713.97	709.26	704.56	699.87
-40	791.31	786.37	781.45	776.54	771.64	766.76	761.89	757.03	752.19	747.36
-30	841.46	836.38	831.32	826.27	821.23	816.21	811.21	806.21	801.23	796.26
-20	892.96	887.75	882.56	877.37	872.20	867.04	861.90	856.77	851.65	846.55
-10	945.82	940.47	935.14	929.82	924.51	919.22	913.94	908.68	903.43	898.19
0	1000.00	994.52	989.06	983.60	978.17	972.74	967.33	961.93	956.55	951.17

T [°C]	0	1	2	3	4	5	6	7	8	9
0	1000.00	1005.49	1011.00	1016.51	1022.05	1027.59	1033.15	1038.72	1044.31	1049.90
10	1055.52	1061.14	1066.78	1072.43	1078.09	1083.77	1089.46	1095.17	1100.89	1106.62
20	1112.36	1118.12	1123.90	1129.68	1135.48	1141.29	1147.12	1152.96	1158.81	1164.68
30	1170.56	1176.45	1182.36	1188.28	1194.21	1200.16	1206.13	1212.10	1218.09	1224.09
40	1230.11	1236.14	1242.19	1248.25	1254.32	1260.41	1266.51	1272.62	1278.75	1284.89
50	1291.05	1297.22	1303.41	1309.61	1315.82	1322.05	1328.29	1334.55	1340.82	1347.10
60	1353.40	1359.72	1366.05	1372.39	1378.75	1385.12	1391.51	1397.91	1404.33	1410.76
70	1417.21	1423.67	1430.14	1436.64	1443.14	1449.67	1456.20	1462.75	1469.32	1475.91
80	1482.50	1489.12	1495.75	1502.39	1509.05	1515.73	1522.42	1529.13	1535.85	1542.59
90	1549.34	1556.12	1562.90	1569.71	1576.53	1583.36	1590.21	1597.08	1603.97	1610.87
100	1617.79	1624.72	1631.67	1638.64	1645.62	1652.62	1659.64	1666.68	1673.73	1680.80
110	1687.89	1694.99	1702.11	1709.25	1716.41	1723.58	1730.77	1737.98	1745.21	1752.45
120	1759.72	1767.00	1774.30	1781.61	1788.95	1796.30	1803.68	1811.07	1818.48	1825.90
130	1833.35	1840.82	1848.30	1855.80	1863.33	1870.87	1878.43	1886.01	1893.61	1901.23
140	1908.87	1916.52	1924.20	1931.90	1939.62	1947.35	1955.11	1962.89	1970.69	1978.51
150	1986.35	1994.21	2002.09	2009.99	2017.91	2025.85	2033.82	2041.80	2049.81	2057.84
160	2065.89	2073.96	2082.05	2090.16	2098.30	2106.46	2114.64	2122.84	2131.06	2139.31
170	2147.58	2155.87	2164.19	2172.52	2180.88	2189.26	2197.67	2206.10	2214.55	2223.03
180	2231.53	2240.05	2248.59	2257.16	2265.76	2274.38	2283.02	2291.68	2300.37	2309.09
190	2317.83	2326.59	2335.38	2344.20	2353.04	2361.90	2370.79	2379.70	2388.64	2397.61
200	2406.60	2415.62	2424.66	2433.73	2442.82	2451.95	2461.09	2470.27	2479.47	2488.70
210	2497.95	2507.23	2516.54	2525.88	2535.24	2544.63	2554.05	2563.50	2572.97	2582.47
220	2592.00	2601.56	2611.15	2620.76	2630.40	2640.08	2649.78	2659.51	2669.26	2679.05
230	2688.87	2698.72	2708.59	2718.50	2728.43	2738.40	2748.40	2758.42	2768.48	2778.56
240	2788.68	2798.83	2809.01	2819.22	2829.46	2839.73	2850.03	2860.37	2870.73	2881.13
250	2891.56	2902.02	2912.52	2923.04	2933.60	2944.19	2954.82	2965.48	2976.16	2986.89
260	2997.64	3008.43	3019.26	3030.11	3041.00	3051.92	3062.88	3073.87	3084.90	3095.96
270	3107.06	3118.19	3129.35	3140.55	3151.78	3163.05	3174.36	3185.70	3197.07	3208.49
280	3219.93	3231.42	3242.94	3254.49	3266.08	3277.71	3289.38	3301.08	3312.82	3324.60
290	3336.41	3348.26	3360.15	3372.08	3384.04	3396.04	3408.08	3420.16	3432.28	3444.43
300	3456.63									