

TABLE PT100Ω Platinum RTD – 0.00385 coefficient

temperature in °C

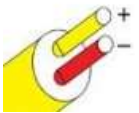


°C	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-200	18.52									
-190	22.83	22.40	21.97	21.54	21.11	20.68	20.25	19.82	19.38	18.95
-180	27.10	26.67	26.25	25.82	25.39	24.97	24.54	24.11	23.68	23.25
-170	31.34	30.91	30.49	30.07	29.64	29.22	28.80	28.37	27.95	27.52
-160	35.54	35.12	34.70	34.28	33.86	33.44	33.02	32.60	32.18	31.76
-150	39.72	39.31	38.89	38.47	38.06	37.64	37.22	36.80	36.38	35.96
-140	43.88	43.46	43.05	42.63	42.22	41.80	41.39	40.97	40.56	40.14
-130	48.01	47.59	47.18	46.77	46.36	45.94	45.53	45.12	44.70	44.29
-120	52.11	51.70	51.29	50.88	50.47	50.06	49.65	49.24	48.83	48.42
-110	56.19	55.79	55.38	54.97	54.56	54.15	53.75	53.34	52.93	52.52
-100	60.26	59.85	59.45	59.04	58.63	58.23	57.82	57.41	57.01	56.60
-90	64.30	63.90	63.49	63.09	62.68	62.28	61.88	61.47	61.07	60.66
-80	68.33	67.92	67.52	67.12	66.72	66.32	65.91	65.51	65.11	64.70
-70	72.34	71.93	71.53	71.13	70.73	70.33	69.93	69.53	69.13	68.73
-60	76.33	75.93	75.53	75.13	74.73	74.33	73.93	73.53	73.13	72.74
-50	80.31	79.91	79.51	79.11	78.72	78.32	77.92	77.52	77.13	76.73
-40	84.27	83.88	83.48	83.08	82.69	82.29	81.89	81.50	81.10	80.70
-30	88.22	87.83	87.43	87.04	86.64	86.25	85.85	85.46	85.06	84.67
-20	92.16	91.77	91.37	90.98	90.59	90.19	89.80	89.40	89.01	88.62
-10	96.09	95.69	95.30	94.91	94.52	94.12	93.73	93.34	92.95	92.55
0	100.00	99.61	99.22	98.83	98.44	98.04	97.65	97.26	96.87	96.48
°C	0	1	2	3	4	5	6	7	8	9
0	100.00	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51
10	103.90	104.29	104.68	105.07	105.46	105.85	106.24	106.63	107.02	107.41
20	107.79	108.18	108.57	108.96	109.35	109.74	110.12	110.51	110.90	111.29
30	111.67	112.06	112.45	112.84	113.22	113.61	114.00	114.38	114.77	115.16
40	115.54	115.93	116.31	116.70	117.09	117.47	117.86	118.24	118.63	119.01
50	119.40	119.78	120.17	120.55	120.94	121.32	121.71	122.09	122.47	122.86
60	123.24	123.63	124.01	124.39	124.78	125.16	125.54	125.93	126.31	126.69
70	127.08	127.46	127.84	128.22	128.61	128.99	129.37	129.75	130.13	130.52
80	130.90	131.28	131.66	132.04	132.42	132.80	133.18	133.57	133.95	134.33
90	134.71	135.09	135.47	135.85	136.23	136.61	136.99	137.37	137.75	138.13
100	138.51	138.89	139.26	139.64	140.02	140.40	140.78	141.16	141.54	141.91
110	142.29	142.67	143.05	143.43	143.80	144.18	144.56	144.94	145.31	145.69
120	146.07	146.45	146.82	147.20	147.58	147.95	148.33	148.70	149.08	149.46
130	149.83	150.21	150.58	150.96	151.33	151.71	152.09	152.46	152.84	153.21
140	153.58	153.96	154.33	154.71	155.08	155.46	155.83	156.20	156.58	156.95
150	157.33	157.70	158.07	158.45	158.82	159.19	159.56	159.94	160.31	160.68
160	161.05	161.43	161.80	162.17	162.54	162.92	163.29	163.66	164.03	164.40
170	164.77	165.14	165.51	165.89	166.26	166.63	167.00	167.37	167.74	168.11
180	168.48	148.85	169.22	169.59	169.96	170.33	170.70	171.07	171.44	171.80
190	172.17	172.54	172.91	173.28	173.65	174.02	174.38	174.75	175.12	175.49
200	175.86	176.22	176.59	176.96	177.33	177.69	178.06	178.43	178.79	179.16
210	179.53	179.89	180.26	180.63	180.99	181.36	181.73	182.09	182.46	182.82
220	183.19	183.55	183.92	184.28	184.65	185.01	185.38	185.74	186.11	186.47
230	186.84	187.20	187.56	187.93	188.29	188.66	189.02	189.38	189.75	190.11
240	190.47	190.84	191.20	191.56	191.92	192.29	192.65	193.01	193.37	193.74
250	194.10	194.46	194.82	195.18	195.55	195.91	196.27	196.63	196.99	197.35
260	197.71	198.07	198.43	198.79	199.15	199.51	199.88	200.24	200.60	200.95

TABLE PT1000Ω DIN60751 coefficient

temperature in °C

°C	-0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-70	723.3	719.3	715.3	711.3	707.3	703.3	699.3	695.3	691.3	687.3
-60	763.3	759.3	755.3	751.3	747.3	743.3	739.3	735.3	731.3	727.3
-50	803.1	799.1	795.1	791.1	787.2	783.2	779.2	775.2	771.2	767.3
-40	842.7	838.7	834.8	830.8	826.9	822.9	818.9	815.0	811.0	807.0
-30	882.2	878.3	874.3	870.4	866.4	862.5	858.5	854.6	850.6	846.7
-20	921.6	917.7	913.7	909.8	905.9	901.9	898.0	894.0	890.1	886.2
-10	960.9	956.9	953.0	949.1	945.2	941.2	937.3	933.4	929.5	925.5
0	1000.0	966.1	992.2	988.3	984.4	980.4	976.5	972.6	968.7	964.8
°C	0	1	2	3	4	5	6	7	8	9
0	1000.0	1003.9	1007.8	1011.7	1015.6	1019.5	1023.4	1027.3	1031.2	1035.1
10	1039.0	1042.9	1046.8	1050.7	1054.6	1058.5	1062.4	1066.3	1070.2	1074.0
20	1077.9	1081.8	1085.7	1089.6	1093.5	1097.3	1101.2	1105.1	1109.0	1112.9
30	1116.7	1120.6	1124.5	1128.3	1132.2	1136.1	1140.0	1143.8	1147.7	1151.5
40	1155.4	1159.3	1163.1	1167.0	1170.8	1174.7	1178.6	1182.4	1186.3	1190.1
50	1194.0	1197.8	1201.7	1205.5	1209.4	1213.2	1217.1	1220.9	1224.7	1228.6
60	1232.4	1236.3	1240.1	1243.9	1247.8	1251.6	1255.4	1259.3	1263.1	1266.9
70	1270.8	1274.6	1278.4	1282.2	1286.1	1289.9	1293.7	1297.5	1301.3	1305.2
80	1309.0	1312.8	1316.6	1320.4	1324.2	1328.0	1331.8	1335.7	1339.5	1343.3
90	1347.1	1350.9	1354.7	1358.5	1362.3	1366.1	1369.9	1373.7	1377.5	1381.3
100	1385.1	1388.8	1392.6	1396.4	1400.2	1404.0	1407.8	1411.6	1415.4	1419.1
110	1422.9	1426.7	1430.5	1434.3	1438.0	1441.8	1445.6	1449.4	1453.1	1456.9
120	1460.7	1464.4	1468.2	1472.0	1475.7	1479.5	1483.3	1487.0	1490.8	1494.6
130	1498.3	1502.1	1505.8	1509.6	1513.3	1517.1	1520.8	1524.6	1528.3	1532.1
140	1535.8	1539.6	1543.3	1547.1	1550.8	1554.6	1558.3	1562.0	1565.8	1569.5
150	1573.3	1577.0	1580.7	1584.5	1588.2	1591.9	1595.6	1599.4	1603.1	1606.8
160	1610.5	1614.3	1618.0	1621.7	1625.4	1629.1	1632.9	1636.6	1640.3	1644.0
170	1647.7	1651.4	1655.1	1658.9	1662.6	1666.3	1670.0	1673.7	1677.4	1681.1
180	1684.8	1688.5	1692.2	1695.9	1699.6	1703.3	1707.0	1710.7	1714.3	1718.0
190	1721.7	1725.4	1729.1	1732.8	1736.5	1740.2	1743.8	1747.5	1751.2	1754.9
200	1758.6	1762.2	1765.9	1769.6	1773.3	1776.9	1780.6	1784.3	1787.9	1791.6
210	1795.3	1798.9	1802.6	1806.3	1809.9	1813.6	1817.2	1820.9	1824.6	1828.2
220	1831.9	1835.5	1839.2	1842.8	1846.5	1850.1	1853.8	1857.4	1861.1	1864.7
230	1868.4	1872.0	1875.6	1879.3	1882.9	1886.6	1890.2	1893.8	1897.5	1901.1
240	1904.7	1908.4	1912.0	1915.6	1919.2	1922.9	1926.5	1930.1	1933.7	1937.4
250	1941.0	1944.6	1948.2	1951.8	1955.5	1959.1	1962.7	1966.3	1969.9	1973.5
260	1977.1	1980.7	1984.3	1987.9	1991.5	1995.1	1998.7	2002.3	2005.9	2009.5
270	2013.1	2016.7	2020.3	2023.9	2027.5	2031.1	2034.7	2038.3	2041.9	2045.5
280	2049.0	2052.6	2056.2	2059.8	2063.4	2067.0	2070.5	2074.1	2077.7	2081.3
290	2084.8	2088.4	2092.0	2095.6	2099.1	2102.7	2106.3	2109.8	2113.4	2117.0
300	2120.5	2124.1	2127.6	2131.2	2134.8	2138.3	2141.9	2145.4	2149.0	2152.5
310	2156.1	2159.6	2163.2	2166.7	2170.3	2173.8	2177.4	2180.9	2184.4	2188.0
320	2191.5	2195.1	2198.6	2202.1	2205.7	2209.2	2212.7	2216.3	2219.8	2223.3
330	2226.8	2230.4	2233.9	2237.4	2240.9	2244.5	2248.0	2251.5	2255.0	2258.5
340	2262.1	2265.6	2269.1	2272.6	2276.1	2279.6	2283.1	2286.6	2290.2	2293.7
350	2297.2	2300.7	2304.2	2307.7	2311.2	2314.7	2318.2	2321.7	2325.2	2328.7
360	2332.1	2335.6	2339.1	2342.6	2346.1	2349.6	2353.1	2356.6	2360.0	2363.5
370	2367.0	2370.5	2374.0	2377.4	2380.9	2384.4	2387.9	2391.3	2394.8	2398.3
380	2401.8	2405.2	2408.7	2412.2	2415.6	2419.1	2422.6	2426.0	2429.5	2432.9
390	2436.4	2439.9	2443.3	2446.8	2450.2	2453.7	2457.1	2460.6	2464.0	2467.5
400	2470.9	2474.4	2477.8	2481.3	2484.7	2488.1	2491.6	2495.0	2498.5	2501.9
410	2505.3	2508.8	2512.2	2515.6	2519.1	2522.5	2525.9	2529.3	2532.8	2536.2
420	2539.6	2543.0	2546.5	2549.9	2553.3	2556.7	2560.1	2563.5	2567.0	2570.4
430	2573.8	2577.2	2580.6	2584.0	2587.4	2590.8	2594.2	2597.6	2601.0	2604.4
440	2607.8	2611.2	2614.6	2618.0	2621.4	2624.8	2628.2	2631.6	2635.0	2638.4
450	2641.8	2645.2	2648.6	2652.0	2655.3	2658.7	2662.1	2665.5	2668.9	2672.2
460	2675.6	2679.0	2682.4	2685.7	2689.1	2692.5	2695.9	2699.2	2702.6	2706.0
470	2709.3	2712.7	2716.1	2719.4	2722.8	2726.1	2729.5	2732.9	2736.2	2739.6
480	2742.9	2746.3	2749.6	2753.0	2756.3	2759.7	2763.0	2766.4	2769.7	2773.1
490	2776.4	2779.8	2783.1	2786.4	2789.8	2793.1	2796.4	2799.8	2803.1	2806.4
500	2809.8	2813.1	2816.4	2819.8	2823.1	2826.4	2829.7	2833.1	2836.4	2839.7

Types of Thermocouples with Temperature Ranges & Color Codes

ANSI Code	ANSI MC 96.1 Color Coding		Alloy Combination		Maximum T/C Grande temp. range	EMF(mv) Over Max. temp. range	IEC 584-3 Color Coding	IEC Code
	Thermocouple	Extension	+ Lead	- Lead				
K			NICKEL-CHROMIUM Ni-Cr	NICKEL-ALLMINUM Ni-Al	-270 to 1372°C -450 to 2501°F	-6.458 to 54.886		K
J			IRON Fe (magnetic)	CONTANTAN COOPER-NICKEL Cu-Ni	-210 to 1200°C -346 to 2193°F	-80095 to 69.553		J
T			COPPER Cu	CONTANTAN COOPER-NICKEL Cu-Ni	-270 to 400°C -454 to 752°F	-6.258 to 20.872		T
E			NICKEL-CHROMIUM Ni-Cr	CONTANTAN COOPER-NICKEL Cu-Ni	-270 to 1000°C -454 to 1832°F	-9.835 to 76.373		E
N			NICROSIL Ni-Cr-Si	NISIL Ni-Si-Mg	-270 to 1300°C -450 to 2372°F	-4.345 to 47.513		N
S	NONE ESTABLISHED		PLATINUM -10% RHODIUM Pt-10%Rh	PLATINUM Pt	-50 to 1768°C -58 to 3214°F	0.236 to 18.693		S
R	NONE ESTABLISHED		PLATINUM -13% RHODIUM Pt-13%Rh	PLATINUM Pt	-50 to 1768°C -58 to 3214°F	-0.226 to 21.101		R
B	NONE ESTABLISHED		PLATINUM -30% RHODIUM Pt-30%Rh	PLATINUM -6% RHODIUM Pt-6%Rh	0 to 1820°C 32 to 3308°F	0 to 13.820		B