

RTD Temperature vs. Resistance Table

100 Ohm RTD

DIN 43760 with Temperature Coefficient of .00385
JIS 1604-1989 with Temperature Coefficient of .00392

°C	DIN	JIS	°C	DIN	JIS	°F	DIN	JIS	°F	DIN	JIS
-100	60.26	59.54	290	208.48	210.45	-200	48.46	47.54	580	213.63	215.69
-90	64.30	63.66	300	212.05	214.08	-180	53.02	52.18	600	217.58	219.71
-80	68.33	67.76	310	215.61	217.70	-160	57.55	56.79	620	221.51	223.71
-70	72.33	71.84	320	219.15	221.31	-140	62.06	61.37	640	225.42	227.70
-60	76.33	75.90	330	222.68	224.91	-120	66.54	65.94	660	229.32	231.67
-50	80.31	79.95	340	226.20	228.49	-100	71.00	70.48	680	233.21	235.63
-40	84.27	83.99	350	229.71	232.06	-80	75.44	75.00	700	237.09	239.57
-30	88.22	88.01	360	233.21	235.63	-60	79.87	79.50	720	240.94	243.50
-20	92.16	92.02	370	236.70	239.18	-40	84.27	83.99	740	244.79	247.42
-10	96.09	96.02	380	240.17	242.72	-20	88.66	88.46	760	248.62	251.32
0	100.00	100.00	390	243.64	246.24	0	93.03	92.91	780	252.44	255.20
10	103.90	103.97	400	247.09	249.76	20	97.39	97.34	800	256.24	259.07
20	107.79	107.93	410	250.53	253.26	40	101.74	101.77	820	260.03	262.93
30	111.67	111.88	420	253.96	256.75	60	106.07	106.17	840	263.80	266.77
40	115.54	115.82	430	257.38	260.23	80	110.38	110.57	860	267.56	270.60
50	119.40	119.75	440	260.78	263.70	100	114.68	114.95	880	271.30	274.42
60	123.24	123.66	450	264.18	267.16	120	118.97	119.31	900	275.03	278.21
70	127.07	127.56	460	267.56	270.60	140	123.24	123.66	920	278.75	282.00
80	130.90	131.45	470	270.93	274.03	160	127.50	128.00	940	282.45	285.77
90	134.71	135.33	480	274.29	277.46	180	131.74	132.32	960	286.14	289.52
100	138.51	139.20	490	277.64	280.87	200	135.97	136.62	980	289.82	293.27
110	142.29	143.06	500	280.97	284.26	220	140.19	140.91	1000	293.47	296.99
120	146.07	146.90	510	284.30	287.65	240	144.39	145.19	1020	297.12	300.70
130	149.83	150.73	520	287.61	291.02	260	148.58	149.46	1040	300.75	304.40
140	153.58	154.55	530	290.91	294.39	280	152.75	153.70	1060	304.37	308.09
150	157.32	158.36	540	294.20	297.74	300	156.91	157.94	1080	307.97	311.75
160	161.05	162.16	550	297.48	301.08	320	161.05	162.16	1100	311.56	315.41
170	164.77	165.94	560	300.75	304.40	340	165.18	166.36	1120	315.13	319.05
180	168.48	169.71	570	304.01	307.72	360	169.30	170.55	1140	318.69	322.67
190	172.17	173.48	580	307.25	311.02	380	173.40	174.73	1160	322.24	326.28
200	175.85	177.23	590	310.48	314.31	400	177.49	178.89	1180	325.77	329.88
210	179.53	180.96	600	313.70	317.59	420	181.56	183.04	1200	329.28	333.46
220	183.19	184.69	610	316.91	320.86	440	185.62	187.17	1220	332.79	337.03
230	186.83	188.41	620	320.11	324.12	460	189.66	191.29	1240	336.28	340.58
240	190.47	192.11	630	323.30	327.36	480	193.69	195.39	1260	339.75	344.12
250	194.10	195.80	640	326.47	330.60	500	197.71	199.48	1280	343.21	347.64
260	197.71	199.48	650	329.64	333.82	520	201.71	203.55	1300	346.65	351.15
270	201.31	203.15	660	332.79	337.03	540	205.70	207.61	1320	350.09	354.65
280	204.90	206.80	670	335.93	340.23	560	209.67	211.66	1340	353.50	358.13

Tolerance °C

Class A: $\pm(0.15+0.002T)^\circ\text{C}$

Class B: $\pm(0.30+0.005T)^\circ\text{C}$

NOTE: "T" is the actual temperature,
in °C of the platinum element.



Note: For 1000 ohm RTDs multiply resistance shown in table by 10.