

RTD RESISTANCE TEMPERATURE TABLE

APPLICATION NOTE

Platinum, 100 Ohm at 0°C, .00385 TCR

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	80.31	79.91	79.51	79.11	78.72	78.32	77.92	77.52	77.12	76.73
-40	84.27	83.87	83.48	83.08	82.69	82.29	81.89	81.5	81.1	80.7
-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	89.8	89.4	89.01	88.62
-10	96.09	95.69	95.3	94.91	94.52	94.12	93.73	93.34	92.95	92.55
0	100	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	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51
10	103.9	104.29	104.68	105.07	105.46	105.85	106.24	106.63	107.02	107.4
20	107.79	108.18	108.57	108.96	109.35	109.73	110.12	110.51	110.9	111.29
30	111.67	112.06	112.45	112.83	113.22	113.61	114	114.38	114.77	115.15
40	115.54	115.93	116.31	116.7	117.08	117.47	117.86	118.24	118.63	119.01
50	119.4	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	130.9	131.28	131.66	132.04	132.42	132.8	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	138.88	139.26	139.64	140.02	140.4	140.78	141.16	141.54	141.91
110	142.29	142.67	143.05	143.43	143.8	144.18	144.56	144.94	145.31	145.69
120	146.07	146.44	146.82	147.2	147.57	147.95	148.33	148.7	149.08	149.46
130	149.83	150.21	150.58	150.96	151.33	151.71	152.08	152.46	152.83	153.21
140	153.58	153.96	154.33	154.71	155.08	155.46	155.83	156.2	156.58	156.95
150	157.33	157.7	158.07	158.45	158.82	159.19	159.56	159.94	160.31	160.68
160	161.05	161.43	161.8	162.17	162.54	162.91	163.29	163.66	164.03	164.4
170	164.77	165.14	165.51	165.89	166.26	166.63	167	167.37	167.74	168.11
180	168.48	168.85	169.22	169.59	169.96	170.33	170.7	171.07	171.43	171.8
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	181.72	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	187.2	187.56	187.93	188.29	188.66	189.02	189.38	189.75	190.11
240	190.47	190.84	191.2	191.56	191.92	192.29	192.65	193.01	193.37	193.74

RTD RESISTANCE TEMPERATURE TABLE

APPLICATION NOTE

Platinum, 100 Ohm at 0°C, .003925 TCR

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	79.92	79.52	79.11	78.71	78.3	77.89	77.49	77.08	76.68	76.27
-40	83.96	83.56	83.16	82.75	82.35	81.94	81.54	81.13	80.73	80.33
-30	87.99	87.59	87.19	86.78	86.38	85.98	85.58	85.17	84.77	84.37
-20	92.01	91.61	91.2	90.8	90.4	90	89.6	89.2	88.79	88.39
-10	96.01	95.61	95.21	94.81	94.41	94.01	93.61	93.21	92.81	92.41
0	100	99.6	99.2	98.8	98.41	98.01	97.61	97.21	96.81	96.41
°C	0	1	2	3	4	5	6	7	8	9
0	100	100.4	100.8	101.19	101.59	101.99	102.39	102.79	103.18	103.58
10	103.98	104.38	104.77	105.17	105.57	105.96	106.36	106.76	107.15	107.55
20	107.95	108.34	108.74	109.13	109.53	109.93	110.32	110.72	111.11	111.51
30	111.9	112.3	112.69	113.09	113.48	113.88	114.27	114.66	115.06	115.45
40	115.85	116.24	116.63	117.03	117.42	117.81	118.21	118.6	118.99	119.39
50	119.78	120.17	120.56	120.96	121.35	121.74	122.13	122.52	122.92	123.31
60	123.7	124.09	124.48	124.87	125.26	125.66	126.05	126.44	126.83	127.22
70	127.61	128	128.39	128.78	129.17	129.56	129.95	130.34	130.73	131.12
80	131.51	131.89	132.28	132.67	133.06	133.45	133.84	134.23	134.61	135
90	135.39	135.78	136.17	136.55	136.94	137.33	137.72	138.1	138.49	138.88
100	139.27	139.65	140.04	140.42	140.81	141.2	141.58	141.97	142.36	142.74
110	143.13	143.51	143.9	144.28	144.67	145.05	145.44	145.82	146.21	146.59
120	146.98	147.36	147.75	148.13	148.51	148.9	149.28	149.67	150.05	150.43
130	150.82	151.2	151.58	151.97	152.35	152.73	153.11	153.5	153.88	154.26
140	154.64	155.03	155.41	155.79	156.17	156.55	156.93	157.32	157.7	158.08
150	158.46	158.84	159.22	159.6	159.98	160.36	160.74	161.12	161.5	161.88
160	162.26	162.64	163.02	163.4	163.78	164.16	164.54	164.92	165.3	165.68
170	166.05	166.43	166.81	167.19	167.57	167.95	168.32	168.7	169.08	169.46
180	169.83	170.21	170.59	170.97	171.34	171.72	172.1	172.47	172.85	173.23
190	173.6	173.98	174.36	174.73	175.11	175.48	175.86	176.23	176.61	176.98
200	177.36	177.74	178.11	178.48	178.86	179.23	179.61	179.98	180.36	180.73
210	181.11	181.48	181.85	182.23	182.6	182.97	183.35	183.72	184.09	184.47
220	184.84	185.21	185.58	185.96	186.33	186.7	187.07	187.45	187.82	188.19
230	188.56	188.93	189.3	189.67	190.05	190.42	190.79	191.16	191.53	191.9
240	192.27	192.64	193.01	193.38	193.75	194.12	194.49	194.86	195.23	195.6

RTD RESISTANCE TEMPERATURE TABLE

APPLICATION NOTE

Platinum, 100 Ohm at 0°C, .003916 TCR

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	80	79.6	79.19	78.79	78.39	77.98	77.58	77.17	76.77	76.37
-40	84.03	83.62	83.22	82.82	82.42	82.02	81.61	81.21	80.81	80.4
-30	88.04	87.64	87.24	86.84	86.44	86.03	85.63	85.23	84.83	84.43
-20	92.04	91.64	91.24	90.84	90.44	90.04	89.64	89.24	88.84	88.44
-10	96.03	95.63	95.23	94.83	94.43	94.03	93.63	93.24	92.84	92.44
0	100	99.6	99.21	98.81	98.41	98.01	97.62	97.22	96.82	96.42
°C	0	1	2	3	4	5	6	7	8	9
0	100	100.4	100.79	101.19	101.59	101.98	102.38	102.78	103.17	103.57
10	103.96	104.36	104.75	105.15	105.55	105.94	106.34	106.73	107.13	107.52
20	107.91	108.31	108.7	109.1	109.49	109.89	110.28	110.67	111.07	111.46
30	111.85	112.25	112.64	113.03	113.43	113.82	114.21	114.61	115	115.39
40	115.78	116.18	116.57	116.96	117.35	117.74	118.13	118.53	118.92	119.31
50	119.7	120.09	120.48	120.87	121.26	121.65	122.04	122.43	122.82	123.21
60	123.6	123.99	124.38	124.77	125.16	125.55	125.94	126.33	126.72	127.11
70	127.5	127.89	128.28	128.66	129.05	129.44	129.83	130.22	130.6	130.99
80	131.38	131.77	132.15	132.54	132.93	133.32	133.7	134.09	134.48	134.86
90	135.25	135.64	136.02	136.41	136.79	137.18	137.57	137.95	138.34	138.72
100	139.11	139.49	139.88	140.26	140.65	141.03	141.42	141.8	142.19	142.57
110	142.95	143.34	143.72	144.11	144.49	144.87	145.26	145.64	146.02	146.41
120	146.79	147.17	147.56	147.94	148.32	148.7	149.09	149.47	149.85	150.23
130	150.61	150.99	151.38	151.76	152.14	152.52	152.9	153.28	153.66	154.04
140	154.42	154.81	155.19	155.57	155.95	156.33	156.71	157.09	157.47	157.85
150	158.22	158.6	158.98	159.36	159.74	160.12	160.5	160.88	161.26	161.63
160	162.01	162.39	162.77	163.15	163.53	163.9	164.28	164.66	165.04	165.41
170	165.79	166.17	166.54	166.92	167.3	167.67	168.05	168.43	168.8	169.18
180	169.55	169.93	170.31	170.68	171.06	171.43	171.81	172.18	172.56	172.93
190	173.31	173.68	174.06	174.43	174.81	175.18	175.55	175.93	176.3	176.68
200	177.05	177.42	177.8	178.17	178.54	178.92	179.29	179.66	180.03	180.41
210	180.78	181.15	181.52	181.9	182.27	182.64	183.01	183.38	183.76	184.13
220	184.5	184.87	185.24	185.61	185.98	186.35	186.72	187.09	187.46	187.84
230	188.21	188.58	188.95	189.31	189.68	190.05	190.42	190.79	191.16	191.53
240	191.9	192.27	192.64	193.01	193.38	193.74	194.11	194.48	194.85	195.22

RTD RESISTANCE TEMPERATURE TABLE

APPLICATION NOTE

Platinum, 1,000 Ohm at 0°C, .00385 TCR

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	803.06	799.09	795.12	791.14	787.17	783.19	779.21	775.23	771.25	767.26
-40	842.71	838.75	834.79	830.83	826.87	822.9	818.94	814.97	811	807.03
-30	882.22	878.27	874.32	870.38	866.43	862.48	858.53	854.57	850.62	846.66
-20	921.6	917.67	913.73	909.8	905.86	901.92	897.98	894.04	890.1	886.16
-10	960.86	956.94	953.02	949.09	945.17	941.24	937.32	933.39	929.46	925.53
0	1,000.00	996.09	992.18	988.27	984.36	980.44	976.53	972.61	968.7	964.78
°C	0	1	2	3	4	5	6	7	8	9
0	1,000.00	1,003.91	1,007.81	1,011.72	1,015.62	1,019.53	1,023.43	1,027.33	1,031.23	1,035.13
10	1,039.03	1,042.92	1,046.82	1,050.71	1,054.60	1,058.49	1,062.38	1,066.27	1,070.16	1,074.05
20	1,077.94	1,081.82	1,085.70	1,089.59	1,093.47	1,097.35	1,101.23	1,105.10	1,108.98	1,112.86
30	1,116.73	1,120.60	1,124.47	1,128.35	1,132.21	1,136.08	1,139.95	1,143.82	1,147.68	1,151.55
40	1,155.41	1,159.27	1,163.13	1,166.99	1,170.85	1,174.70	1,178.56	1,182.41	1,186.27	1,190.12
50	1,193.97	1,197.82	1,201.67	1,205.52	1,209.36	1,213.21	1,217.05	1,220.90	1,224.74	1,228.58
60	1,232.42	1,236.26	1,240.09	1,243.93	1,247.77	1,251.60	1,255.43	1,259.26	1,263.09	1,266.92
70	1,270.75	1,274.58	1,278.40	1,282.23	1,286.05	1,289.87	1,293.70	1,297.52	1,301.33	1,305.15
80	1,308.97	1,312.78	1,316.60	1,320.41	1,324.22	1,328.03	1,331.84	1,335.65	1,339.46	1,343.26
90	1,347.07	1,350.87	1,354.68	1,358.48	1,362.28	1,366.08	1,369.87	1,373.67	1,377.47	1,381.26
100	1,385.06	1,388.85	1,392.64	1,396.43	1,400.22	1,404.00	1,407.79	1,411.58	1,415.36	1,419.14
110	1,422.93	1,426.71	1,430.49	1,434.26	1,438.04	1,441.82	1,445.59	1,449.37	1,453.14	1,456.91
120	1,460.68	1,464.45	1,468.22	1,471.98	1,475.75	1,479.51	1,483.28	1,487.04	1,490.80	1,494.56
130	1,498.32	1,502.08	1,505.83	1,509.59	1,513.34	1,517.10	1,520.85	1,524.60	1,528.35	1,532.10
140	1,535.84	1,539.59	1,543.33	1,547.08	1,550.82	1,554.56	1,558.30	1,562.04	1,565.78	1,569.52
150	1,573.25	1,576.99	1,580.72	1,584.45	1,588.18	1,591.91	1,595.64	1,599.37	1,603.09	1,606.82
160	1,610.54	1,614.27	1,617.99	1,621.71	1,625.43	1,629.15	1,632.86	1,636.58	1,640.30	1,644.01
170	1,647.72	1,651.43	1,655.14	1,658.85	1,662.56	1,666.27	1,669.97	1,673.68	1,677.38	1,681.08
180	1,684.78	1,688.48	1,692.18	1,695.88	1,699.58	1,703.27	1,706.96	1,710.66	1,714.35	1,718.04
190	1,721.73	1,725.42	1,729.10	1,732.79	1,736.48	1,740.16	1,743.84	1,747.52	1,751.20	1,754.88
200	1,758.56	1,762.24	1,765.91	1,769.59	1,773.26	1,776.93	1,780.60	1,784.27	1,787.94	1,791.61
210	1,795.28	1,798.94	1,802.60	1,806.27	1,809.93	1,813.59	1,817.25	1,820.91	1,824.56	1,828.22
220	1,831.88	1,835.53	1,839.18	1,842.83	1,846.48	1,850.13	1,853.78	1,857.43	1,861.07	1,864.72
230	1,868.36	1,872.00	1,875.64	1,879.28	1,882.92	1,886.56	1,890.19	1,893.83	1,897.46	1,901.10
240	1,904.73	1,908.36	1,911.99	1,915.62	1,919.24	1,922.87	1,926.49	1,930.12	1,933.74	1,937.36

RTD RESISTANCE TEMPERATURE TABLE

APPLICATION NOTE

Copper, 10 Ohm at 25°C, .00427 TCR

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	7.1	7.06	7.03	6.99	6.95	6.91	6.87	6.83	6.79	6.75
-40	7.49	7.45	7.41	7.37	7.34	7.3	7.26	7.22	7.18	7.14
-30	7.88	7.84	7.8	7.76	7.72	7.68	7.64	7.61	7.57	7.53
-20	8.26	8.22	8.19	8.15	8.11	8.07	8.03	7.99	7.95	7.92
-10	8.65	8.61	8.57	8.53	8.49	8.46	8.42	8.38	8.34	8.3
0	9.04	9	8.96	8.92	8.88	8.84	8.8	8.76	8.73	8.69
°C	0	1	2	3	4	5	6	7	8	9
0	9.04	9.07	9.11	9.15	9.19	9.23	9.27	9.31	9.34	9.38
10	9.42	9.46	9.5	9.54	9.58	9.61	9.65	9.69	9.73	9.77
20	9.81	9.85	9.88	9.92	9.96	10	10.04	10.08	10.12	10.15
30	10.19	10.23	10.27	10.31	10.35	10.39	10.43	10.46	10.5	10.54
40	10.58	10.62	10.66	10.7	10.73	10.77	10.81	10.85	10.89	10.93
50	10.97	11	11.04	11.08	11.12	11.16	11.2	11.24	11.27	11.31
60	11.35	11.39	11.43	11.47	11.51	11.55	11.58	11.62	11.66	11.7
70	11.74	11.78	11.82	11.85	11.89	11.93	11.97	12.01	12.05	12.09
80	12.12	12.16	12.2	12.24	12.28	12.32	12.36	12.39	12.43	12.47
90	12.51	12.55	12.59	12.63	12.67	12.7	12.74	12.78	12.82	12.86
100	12.9	12.94	12.97	13.01	13.05	13.09	13.13	13.17	13.21	13.24
110	13.28	13.32	13.36	13.4	13.44	13.48	13.51	13.55	13.59	13.63
120	13.67	13.71	13.75	13.79	13.82	13.86	13.9	13.94	13.98	14.02
130	14.06	14.09	14.13	14.17	14.21	14.25	14.29	14.33	14.36	14.4
140	14.44	14.48	14.52	14.56	14.6	14.63	14.67	14.71	14.75	14.79
150	14.83	14.87	14.91	14.94	14.98	15.02	15.06	15.1	15.14	15.18
160	15.22	15.26	15.3	15.33	15.37	15.41	15.45	15.49	15.53	15.57
170	15.61	15.65	15.68	15.72	15.76	15.8	15.84	15.88	15.92	15.96
180	16	16.04	16.07	16.11	16.15	16.19	16.23	16.27	16.31	16.35
190	16.39	16.42	16.46	16.5	16.54	16.58	16.62	16.66	16.7	16.74
200	16.78	16.81	16.85	16.89	16.93	16.97	17.01	17.05	17.09	17.13
210	17.17	17.2	17.24	17.28	17.32	17.36	17.4	17.44	17.48	17.52
220	17.56	17.59	17.63	17.67	17.71	17.75	17.79	17.83	17.87	17.91
230	17.95	17.98	18.02	18.06	18.1	18.14	18.18	18.22	18.26	18.3
240	18.34	18.37	18.41	18.45	18.49	18.53	18.57	18.61	18.65	18.69

RTD RESISTANCE TEMPERATURE TABLE

APPLICATION NOTE

Nickel, 120 Ohm at 0°C, .00672 TCR

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-50	87.21	86.6	86	85.4	84.8	84.21	83.61	83.02	82.43	81.84
-40	93.37	92.74	92.12	91.5	90.88	90.26	89.65	89.04	88.42	87.82
-30	99.73	99.08	98.44	97.8	97.16	96.52	95.89	95.25	94.62	93.99
-20	106.29	105.62	104.96	104.3	103.64	102.98	102.33	101.67	101.02	100.37
-10	113.04	112.36	111.68	110.99	110.32	109.64	108.96	108.29	107.62	106.95
0	120	119.3	118.59	117.89	117.19	116.5	115.8	115.11	114.42	113.73
°C	0	1	2	3	4	5	6	7	8	9
0	120	120.71	121.42	122.13	122.84	123.55	124.27	124.99	125.71	126.43
10	127.16	127.88	128.61	129.34	130.07	130.81	131.54	132.28	133.02	133.77
20	134.51	135.26	136.01	136.76	137.51	138.26	139.02	139.78	140.54	141.3
30	142.06	142.83	143.6	144.37	145.14	145.92	146.69	147.47	148.25	149.03
40	149.82	150.6	151.39	152.18	152.98	153.77	154.57	155.36	156.17	156.97
50	157.77	158.58	159.39	160.2	161.01	161.82	162.64	163.46	164.28	165.1
60	165.93	166.75	167.58	168.41	169.25	170.08	170.92	171.76	172.6	173.44
70	174.28	175.13	175.98	176.83	177.68	178.54	179.4	180.26	181.12	181.98
80	182.85	183.71	184.58	185.45	186.33	187.2	188.08	188.96	189.84	190.72
90	191.61	192.5	193.39	194.28	195.17	196.07	196.97	197.87	198.77	199.67
100	200.58	201.49	202.4	203.31	204.22	205.14	206.06	206.98	207.9	208.82
110	209.75	210.68	211.61	212.54	213.48	214.41	215.35	216.29	217.24	218.18
120	219.13	220.08	221.03	221.98	222.94	223.89	224.85	225.81	226.78	227.74
130	228.71	229.68	230.65	231.62	232.6	233.57	234.55	235.53	236.52	237.5
140	238.49	239.48	240.47	241.46	242.46	243.46	244.46	245.46	246.46	247.46
150	248.47	249.48	250.49	251.5	252.52	253.54	254.56	255.58	256.6	257.62
160	258.65	259.68	260.71	261.74	262.78	263.81	264.85	265.89	266.93	267.97
170	269.02	270.07	271.12	272.17	273.22	274.27	275.33	276.39	277.45	278.51
180	279.58	280.64	281.71	282.78	283.85	284.92	285.99	287.07	288.15	289.23
190	290.31	291.39	292.48	293.56	294.65	295.74	296.83	297.92	299.02	300.11
200	301.21	302.31	303.41	304.51	305.61	306.72	307.83	308.93	310.04	311.15
210	312.27	313.38	314.5	315.61	316.73	317.85	318.97	320.09	321.22	322.34
220	323.47	324.59	325.72	326.85	327.98	329.12	330.25	331.38	332.52	333.65
230	334.79	335.93	337.07	338.21	339.35	340.5	341.64	342.78	343.93	345.08
240	346.22	347.37	348.52	349.67	350.82	351.97	353.12	354.28	355.43	356.58

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