

# 100 Ohm Platinum RTD Resistance vs. Temperature Tables

## Alpha=.003916 (Celsius)

°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	°C
<b>-200</b>	17.14											<b>-200</b>
<b>-190</b>	21.46	21.03	20.59	20.16	19.73	19.29	18.86	18.43	18.00	17.57	17.14	<b>-190</b>
<b>-180</b>	25.80	25.37	24.93	24.50	24.07	23.63	23.20	22.76	22.33	21.90	21.46	<b>-180</b>
<b>-170</b>	30.12	29.69	29.26	28.83	28.40	27.97	27.53	27.10	26.67	26.24	25.80	<b>-170</b>
<b>-160</b>	34.42	33.99	33.56	33.13	32.70	32.28	31.85	31.42	30.99	30.56	30.12	<b>-160</b>
<b>-150</b>	38.68	38.26	37.83	37.41	36.98	36.55	36.13	35.70	35.27	34.85	34.42	<b>-150</b>
<b>-140</b>	42.91	42.49	42.07	41.64	41.22	40.80	40.38	39.95	39.53	39.10	38.68	<b>-140</b>
<b>-130</b>	47.11	46.69	46.27	45.85	45.43	45.01	44.59	44.17	43.75	43.33	42.91	<b>-130</b>
<b>-120</b>	51.29	50.87	50.45	50.04	49.62	49.20	48.78	48.37	47.95	47.53	47.11	<b>-120</b>
<b>-110</b>	55.44	55.02	54.61	54.19	53.78	53.36	52.95	52.53	52.12	51.70	51.29	<b>-110</b>
<b>-100</b>	59.57	59.16	58.74	58.33	57.92	57.50	57.09	56.68	56.26	55.85	55.44	<b>-100</b>
<b>-90</b>	63.68	63.27	62.86	62.45	62.04	61.63	61.21	60.80	60.39	59.98	59.57	<b>-90</b>
<b>-80</b>	67.77	67.36	66.96	66.55	66.14	65.73	65.32	64.91	64.50	64.09	63.68	<b>-80</b>
<b>-70</b>	71.85	71.44	71.04	70.63	70.22	69.81	69.41	69.00	68.59	68.18	67.77	<b>-70</b>
<b>-60</b>	75.91	75.51	75.10	74.70	74.29	73.88	73.43	73.07	72.66	72.26	71.85	<b>-60</b>
<b>-50</b>	79.96	79.56	79.15	78.75	78.34	77.94	77.53	77.13	76.72	76.32	75.91	<b>-50</b>
<b>-40</b>	83.99	83.59	83.19	82.79	82.38	81.98	81.58	81.17	80.77	80.36	79.96	<b>-40</b>
<b>-30</b>	88.01	87.61	87.21	86.81	86.41	86.01	85.60	85.20	84.80	84.40	83.99	<b>-30</b>
<b>-20</b>	92.02	91.62	91.22	90.82	90.42	90.02	89.62	89.22	88.82	88.42	88.01	<b>-20</b>
<b>-10</b>	96.02	95.62	95.22	94.82	94.42	94.02	93.62	93.22	92.82	92.42	92.02	<b>-10</b>
<b>0</b>	100.00	99.60	99.20	98.81	98.41	98.01	97.61	97.21	96.81	96.42	96.02	<b>0</b>
°C	0	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	°C
°C	0	1	2	3	4	5	6	7	8	9	10	°C
<b>0</b>	100.00	100.40	100.80	101.19	101.59	101.99	102.38	102.78	103.18	103.57	103.97	<b>0</b>
<b>10</b>	103.97	104.37	104.76	105.16	105.56	105.95	106.35	106.74	107.14	107.53	107.93	<b>10</b>
<b>20</b>	107.93	108.32	108.72	109.11	109.51	109.90	110.30	110.69	111.09	111.48	111.88	<b>20</b>
<b>30</b>	111.88	112.27	112.66	113.06	113.45	113.84	114.24	114.63	115.02	115.42	115.81	<b>30</b>
<b>40</b>	115.81	116.20	116.59	116.99	117.38	117.77	118.16	118.56	118.95	119.34	119.73	<b>40</b>
<b>50</b>	119.73	120.12	120.51	120.91	121.30	121.69	122.08	122.47	122.86	123.25	123.64	<b>50</b>
<b>60</b>	123.64	124.03	124.42	124.81	125.20	125.59	125.98	126.37	126.76	127.15	127.54	<b>60</b>
<b>70</b>	127.54	127.93	128.32	128.71	129.09	129.48	129.87	130.26	130.65	131.04	131.42	<b>70</b>
<b>80</b>	131.42	131.81	132.20	132.59	132.98	133.36	133.75	134.14	134.52	134.91	135.30	<b>80</b>
<b>90</b>	135.30	135.68	136.07	136.46	136.84	137.23	137.62	138.00	138.39	138.77	139.16	<b>90</b>



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 (Celsius)

°C	0	1	2	3	4	5	6	7	8	9	10	°C
100	139.16	139.55	139.93	140.32	140.70	141.09	141.47	141.86	142.24	142.63	143.01	100
110	143.01	143.39	143.78	144.16	144.55	144.93	145.31	145.70	146.08	146.46	146.85	110
120	146.85	147.23	147.61	148.00	148.38	148.76	149.15	149.53	149.91	150.29	150.67	120
130	150.67	151.06	151.44	151.82	152.20	152.58	152.96	153.35	153.73	154.11	154.49	130
140	154.49	154.87	155.25	155.63	156.01	156.39	156.77	157.15	157.53	157.91	158.29	140
150	158.29	158.67	159.05	159.43	159.81	160.19	160.57	160.95	161.33	161.70	162.08	150
160	162.08	162.46	162.84	163.22	163.60	163.97	164.35	164.73	165.11	165.48	165.86	160
170	165.86	166.24	166.62	166.99	167.37	167.75	168.12	168.50	168.88	169.25	169.63	170
180	169.63	170.00	170.38	170.76	171.13	171.51	171.88	172.26	172.63	173.01	173.38	180
190	173.38	173.76	174.13	174.51	174.88	175.26	175.63	176.01	176.38	176.75	177.13	190
200	177.13	177.50	177.88	178.25	178.62	179.00	179.37	179.74	180.12	180.49	180.86	200
210	180.86	181.23	181.61	181.98	182.35	182.72	183.09	183.47	183.84	184.21	184.58	210
220	184.58	184.95	185.32	185.70	186.07	186.44	186.81	187.18	187.55	187.92	188.29	220
230	188.29	188.66	189.03	189.40	189.77	190.14	190.51	190.88	191.25	191.62	191.99	230
240	191.99	192.36	192.73	193.09	193.46	193.83	194.20	194.57	194.94	195.31	195.67	240
250	195.67	196.04	196.41	196.78	197.14	197.51	197.88	198.25	198.61	198.98	199.35	250
260	199.35	199.71	200.08	200.45	200.81	201.18	201.55	201.91	202.28	202.64	203.01	260
270	203.01	203.38	203.74	204.11	204.47	204.84	205.20	205.57	205.93	206.30	206.66	270
280	206.66	207.02	207.39	207.75	208.12	208.48	208.85	209.21	209.57	209.94	210.30	280
290	210.30	210.66	211.03	211.39	211.75	212.11	212.48	212.84	213.20	213.56	213.93	290
300	213.93	214.29	214.65	215.01	215.37	215.74	216.10	216.46	216.82	217.18	217.54	300
310	217.54	217.90	218.26	218.63	218.99	219.35	219.71	220.07	220.43	220.79	221.15	310
320	221.15	221.51	221.87	222.23	222.59	222.94	223.30	223.66	224.02	224.38	224.74	320
330	224.74	225.10	225.46	225.81	226.17	226.53	226.89	227.25	227.61	227.96	228.32	330
340	228.32	228.68	229.04	229.39	229.75	230.11	230.46	230.82	231.18	231.53	231.89	340
350	231.89	232.25	232.60	232.96	233.31	233.67	234.03	234.38	234.74	235.09	235.45	350
360	235.45	235.80	236.16	236.51	236.87	237.22	237.58	237.93	238.28	238.64	238.99	360
370	238.99	239.35	239.70	240.05	240.41	240.76	241.11	241.47	241.82	242.17	242.53	370
380	242.53	242.88	243.23	243.58	243.94	244.29	244.64	244.99	245.35	245.70	246.05	380
390	246.05	246.40	246.75	247.10	247.46	247.81	248.16	248.51	248.86	249.21	249.56	390
400	249.56	249.91	250.26	250.61	250.96	251.31	251.66	252.01	252.36	252.71	253.06	400
410	253.06	253.41	253.76	254.11	254.46	254.80	255.15	255.50	255.85	256.20	256.55	410
420	256.55	256.89	257.24	257.59	257.94	258.29	258.63	258.98	259.33	259.67	260.02	420
430	260.02	260.37	260.72	261.06	261.41	261.75	262.10	262.45	262.79	263.14	263.49	430
440	263.49	263.83	264.18	264.52	264.87	265.21	265.56	265.90	266.25	266.59	266.94	440



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Alpha=.003916

(Celsius)

°C	0	1	2	3	4	5	6	7	8	9	10	°C
<b>450</b>	266.94	267.28	267.63	267.97	268.31	268.66	269.00	269.35	269.69	270.03	270.38	<b>450</b>
<b>460</b>	270.38	270.72	271.06	271.41	271.75	272.09	272.44	272.78	273.12	273.46	273.80	<b>460</b>
<b>470</b>	273.80	274.15	274.49	274.83	275.17	275.51	275.86	276.20	276.54	276.88	277.22	<b>470</b>
<b>480</b>	277.22	277.56	277.90	278.24	278.58	278.92	279.26	279.61	279.95	280.29	280.63	<b>480</b>
<b>490</b>	280.63	280.96	281.30	281.64	281.98	282.32	282.66	283.00	283.34	283.68	284.02	<b>490</b>
<b>500</b>	284.02	284.36	284.69	285.03	285.37	285.71	286.05	286.39	286.72	287.06	287.40	<b>500</b>

Reference JIS C1604-1989