

**MAXIMUM TEMPERATURE RANGE**

-320 to 1562° F

-200 to 850° C

**ACCURACY**

**Class A Tolerance =**

$\pm [0.13 + 0.0017 * |t|]$  °C

**Class B Tolerance =**

$\pm [0.25 + 0.0042 * |T|]$  °C

**TEMPERATURE IN DEGREES °C**

**REFERENCE JUNCTION AT 0°C**

# PT100 TYPE

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TEMP	0	-1	-2	-3	-4	-5	-6	-7	-8	-9
-200	18.520									
-190	22.826	22.397	21.967	21.538	21.108	20.677	20.247	19.815	19.384	18.952
-180	27.096	26.671	26.245	25.819	25.392	24.965	24.538	24.110	23.682	23.254
-170	31.335	30.913	30.490	30.067	29.643	29.220	28.796	28.371	27.947	27.522
-160	35.543	35.124	34.704	34.284	33.864	33.443	33.022	32.601	32.179	31.757
-150	39.723	39.306	38.889	38.472	38.055	37.637	37.219	36.800	36.382	35.963
-140	43.876	43.462	43.048	42.633	42.218	41.803	41.388	40.972	40.556	40.140
-130	48.005	47.593	47.181	46.769	46.356	45.944	45.531	45.118	44.704	44.290
-120	52.110	51.700	51.291	50.881	50.471	50.060	49.650	49.239	48.828	48.416
-110	56.193	55.786	55.378	54.970	54.562	54.154	53.746	53.337	52.928	52.519
-100	60.256	59.850	59.445	59.039	58.633	58.227	57.821	57.414	57.007	56.600
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-90	64.300	63.896	63.492	63.088	62.684	62.280	61.876	61.471	61.066	60.661
-80	68.325	67.924	67.522	67.120	66.717	66.315	65.912	65.509	65.106	64.703
-70	72.335	71.934	71.534	71.134	70.733	70.332	69.931	69.530	69.129	68.727
-60	76.328	75.929	75.530	75.132	74.732	74.333	73.934	73.534	73.134	72.735
-50	80.306	79.909	79.512	79.114	78.717	78.319	77.921	77.523	77.125	76.726
-40	84.271	83.875	83.479	83.083	82.687	82.29	81.894	81.497	81.100	80.703
-30	88.222	87.827	87.433	87.038	86.643	86.248	85.853	85.457	85.062	84.666
-20	92.160	91.767	91.373	90.980	90.586	90.192	89.799	89.404	89.010	88.616
-10	96.086	95.694	95.302	94.909	94.517	94.124	93.732	93.339	92.946	92.553
0	100.000	99.609	99.218	98.827	98.436	98.044	97.653	97.261	96.870	96.478
0	100.000	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51
10	103.903	104.29	104.68	105.07	105.460	105.85	106.24	106.63	107.02	107.41
20	107.79	108.18	108.570	108.96	109.35	109.74	110.12	110.510	110.9	111.29
30	111.67	112.060	112.45	112.84	113.22	113.61	114	114.38	114.77	115.16
40	115.54	115.93	116.31	116.7	117.09	117.470	117.86	118.24	118.63	119.01

TEMP	0	1	2	3	4	5	6	7	8	9
50	119.4	119.78	120.17	120.55	120.94	121.32	121.71	122.090	122.47	122.86
60	123.24	123.63	124.01	124.39	124.78	125.160	125.54	125.93	126.31	126.69
70	127.08	127.46	127.840	128.22	128.61	128.99	129.370	129.75	130.13	130.52
80	130.9	131.28	131.660	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	138.89	139.26	139.64	140.02	140.400	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	146.45	146.82	147.2	147.58	147.95	148.33	148.7	149.080	149.46
130	149.83	150.21	150.58	150.96	151.33	151.710	152.09	152.460	152.84	153.210
140	153.58	153.96	154.33	154.71	155.08	155.46	155.830	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	162.92	163.29	163.66	164.030	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	171.44	171.8
190	172.17	172.54	172.910	173.28	173.65	174.02	174.38	174.75	175.120	175.49
200	175.86	176.22	176.59	176.96	177.33	177.69	178.060	178.43	178.79	179.16
210	179.53	179.89	180.260	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	187.200	187.56	187.93	188.29	188.66	189.02	189.38	189.75	190.110
240	190.47	190.84	191.2	191.56	191.92	192.29	192.65	193.01	193.37	193.74
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250	194.1	194.460	194.82	195.18	195.55	195.91	196.27	196.63	196.990	197.35
260	197.71	198.07	198.43	198.79	199.15	199.51	199.88	200.24	200.6	200.95
270	201.31	201.67	202.03	202.39	202.75	203.11	203.470	203.83	204.19	204.55
280	204.91	205.26	205.62	205.980	206.34	206.7	207.05	207.41	207.77	208.13
290	208.48	208.84	209.2	209.56	209.91	210.27	210.63	210.98	211.34	211.7
300	212.05	212.41	212.76	213.120	213.48	213.83	214.19	214.54	214.9	215.25
310	215.61	215.96	216.32	216.67	217.03	217.38	217.74	218.090	218.44	218.8
320	219.15	219.51	219.860	220.21	220.57	220.920	221.27	221.63	221.98	222.33
330	222.69	223.04	223.390	223.74	224.1	224.45	224.8	225.15	225.5	225.86
340	226.21	226.56	226.91	227.260	227.61	227.96	228.31	228.66	229.02	229.37
350	229.72	230.07	230.42	230.77	231.12	231.47	231.82	232.17	232.52	232.87
360	233.21	233.56	233.91	234.26	234.610	234.96	235.31	235.66	236.01	236.35
370	236.7	237.05	237.4	237.75	238.09	238.440	238.79	239.14	239.48	239.83
380	240.18	240.52	240.870	241.22	241.56	241.910	242.26	242.6	242.95	243.29
390	243.640	243.99	244.33	244.68	245.02	245.37	245.71	246.06	246.4	246.75
400	247.09	247.44	247.78	248.13	248.470	248.81	249.16	249.5	249.85	250.19
410	250.53	250.88	251.22	251.56	251.91	252.25	252.59	252.93	253.28	253.62

TEMP	0	1	2	3	4	5	6	7	8	9			
T H E R M O N I C	420	253.96	254.3	254.65	254.99	255.330	255.67	256.01	256.36	256.7	257.04	P T 1 0 0	
	430	257.38	257.720	258.06	258.4	258.74	259.08	259.42	259.76	260.11	260.45		
	440	260.79	261.13	261.47	261.8	262.14	262.48	262.82	263.16	263.5	263.840		
	450	264.18	264.52	264.86	265.2	265.53	265.87	266.210	266.55	266.89	267.22		
	460	267.56	267.900	268.24	268.57	268.91	269.25	269.59	269.92	270.260	270.6		
	470	270.93	271.270	271.61	271.94	272.28	272.61	272.950	273.29	273.62	273.96		
	480	274.29	274.63	274.96	275.3	275.63	275.97	276.3	276.64	276.97	277.31		
	490	277.64	277.98	278.31	278.64	278.98	279.31	279.64	279.98	280.31	280.64		
	500	280.98	281.31	281.64	281.98	282.31	282.64	282.97	283.31	283.64	283.97		
	510	284.3	284.63	284.97	285.3	285.63	285.96	286.29	286.62	286.95	287.29		
T H E R M O N I C	520	287.62	287.95	288.28	288.61	288.94	289.27	289.6	289.93	290.26	290.59	P T 1 0 0	
	530	290.92	291.25	291.58	291.91	292.24	292.57	292.89	293.22	293.55	293.880		
	540	294.21	294.54	294.87	295.19	295.52	295.85	296.18	296.51	296.83	297.160		
	550	297.49	297.81	298.14	298.47	298.8	299.12	299.45	299.78	300.1	300.43		
	560	300.75	301.080	301.41	301.73	302.06	302.38	302.71	303.04	303.360	303.69		
	570	304.010	304.34	304.660	304.99	305.31	305.63	305.96	306.28	306.61	306.930		
	580	307.25	307.58	307.9	308.23	308.55	308.87	309.2	309.52	309.84	310.16		
	590	310.49	310.810	311.13	311.45	311.78	312.1	312.42	312.74	313.07	313.39		
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	T H E R M O N I C	600	313.71	314.03	314.35	314.67	314.99	315.31	315.64	315.96	316.28		316.6
610		316.92	317.24	317.56	317.88	318.2	318.52	318.84	319.16	319.48	319.8		
620		320.12	320.44	320.75	321.07	321.39	321.710	322.03	322.35	322.67	322.98		
630		323.3	323.620	323.94	324.26	324.57	324.89	325.21	325.53	325.84	326.16		
640		326.48	326.79	327.110	327.43	327.74	328.060	328.38	328.69	329.01	329.32		
650		329.640	329.96	330.27	330.59	330.9	331.22	331.53	331.85	332.16	332.48		
660		332.79	333.11	333.42	333.74	334.05	334.36	334.68	334.99	335.31	335.62		
670		335.93	336.25	336.56	336.87	337.19	337.5	337.81	338.12	338.44	338.75		
680		339.06	339.37	339.69	340	340.31	340.62	340.93	341.24	341.56	341.87		
690		342.18	342.49	342.800	343.11	343.42	343.73	344.04	344.35	344.66	344.97		
T H E R M O N I C	700	345.28	345.59	345.9	346.21	346.52	346.83	347.14	347.45	347.760	348.07	P T 1 0 0	
	710	348.38	348.69	349	349.3	349.61	349.920	350.23	350.54	350.84	351.15		
	720	351.460	351.77	352.08	352.38	352.690	353	353.3	353.61	353.92	354.22		
	730	354.53	354.84	355.14	355.450	355.76	356.06	356.37	356.67	356.98	357.29		
	740	357.590	357.9	358.2	358.51	358.81	359.12	359.420	359.73	360.03	360.33		
	750	360.64	360.94	361.25	361.550	361.85	362.16	362.46	362.77	363.07	363.37		
	760	363.67	363.98	364.280	364.58	364.89	365.19	365.49	365.79	366.1	366.4		
	770	366.7	367	367.3	367.6	367.91	368.21	368.51	368.810	369.11	369.41		
	780	369.71	370.01	370.31	370.61	370.91	371.22	371.52	371.82	372.12	372.41		

	TEMP	0	1	2	3	4	5	6	7	8	9	
T H E R M O N I C	790	372.71	373.01	373.31	373.61	373.91	374.210	374.51	374.81	375.11	375.41	P T 1 0 0
	800	375.7	376	376.3	376.6	376.9	377.2	377.49	377.790	378.09	378.39	
	810	378.68	378.980	379.28	379.57	379.87	380.17	380.46	380.76	381.06	381.35	
	820	381.65	381.95	382.24	382.54	382.83	383.13	383.42	383.720	384.02	384.310	
	830	384.61	384.900	385.2	385.49	385.78	386.08	386.37	386.67	386.96	387.26	
	840	387.55	387.84	388.14	388.430	388.72	389.02	389.310	389.6	389.9	390.19	
	850	390.48										
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