

## Temperature Measurement

**Technical Data Sheet** 

TD-TV/PT1A

## **PT100 Resistance Table**

°C	0	1	2	3	4	5	6	7	8	9	°C
-200.00	18.52										-200.00
-190.00	22.83	22.40	21.97	21.54	21.11	20.68	20.25	19.82	19.38	18.95	-190.00
-180.00	27.10	26.67	26.24	25.82	25.39	24.97	24.54	24.11	23.68	23.25	-180.00
-170.00	31.34	30.91	30.49	30.07	29.64	29.22	28.80	28.37	27.95	27.52	-170.00
-160.00	35.54	35.12	34.70	34.28	33.86	33.44	33.02	32.60	32.18	31.76	-160.00
-150.00	39.72	39.31	38.89	38.47	38.05	37.64	37.22	36.80	36.38	35.96	-150.00
-140.00	43.88	43.46	43.05	42.63	42.22	41.80	41.39	40.97	40.56	40.14	-140.00
-130.00	48.00	47.59	47.18	46.77	46.36	45.94	45.53	45.12	44.70	44.29	-130.00
-120.00	52.11	51.70	51.29	50.88	50.47	50.06	49.65	49.24	48.83	48.42	-120.00
-110.00	56.19	55.79	55.38	54.97	54.56	54.15	53.75	53.34	52.93	52.52	-110.00
-100.00	60.26	59.85	59.44	59.04	58.63	58.23	57.82	57.41	57.01	56.60	-100.00
-90.00	64.30	63.90	63.49	63.09	62.68	62.28	61.88	61.47	61.07	60.66	-90.00
-80.00	68.33	67.92	67.52	67.12	66.72	66.31	65.91	65.51	65.11	64.70	-80.00
-70.00	72.33	71.93	71.53	71.13	70.73	70.33	69.93	69.53	69.13	68.73	-70.00
-60.00	76.33	75.93	75.53	75.13	74.73	74.33	73.93	73.53	73.13	72.73	-60.00
-50.00	80.31	79.91	79.51	79.11	78.72	78.32	77.92	77.52	77.12	76.73	-50.00
-40.00	84.27	83.87	83.48	83.08	82.69	82.29	81.89	81.50	81.10	80.70	-40.00
-30.00	88.22	87.83	87.43	87.04	86.64	86.25	85.85	85.46	85.06	84.67	-30.00
-20.00	92.16	91.77	91.37	90.98	90.59	90.19	89.80	89.40	89.01	88.62	-20.00
-10.00	96.09	95.69	95.30	94.91	94.52	94.12	93.73	93.34	92.95	92.55	-10.00
0.00	100.00	99.61	99.22	98.83	98.44	98.04	97.65	97.26	96.87	96.48	0.00
0.00	100.00	100.39	100.78	101.17	101.56	101.95	102.34	102.73	103.12	103.51	0.00
10.00	103.90	104.29	104.68	105.07	105.46	105.85	106.24	106.63	107.02	107.40	10.00
20.00	107.79	108.18	108.57	108.96	109.35	109.73	110.12	110.51	110.90	111.29	20.00
30.00	111.67	112.06	112.45	112.83	113.22	113.61	114.00	114.38	114.77	115.15	30.00
40.00	115.54	115.93	116.31	116.70	117.08	117.47	117.86	118.24	118.63	119.01	40.00
50.00	119.40	119.78	120.17	120.55	120.94	121.32	121.71	122.09	122.47	122.86	50.00
60.00	123.24	123.63	124.01	124.39	124.78	125.16	125.54	125.93	126.31	126.69	60.00
70.00	127.08	127.46	127.84	128.22	128.61	128.99	129.37	129.75	130.13	130.52	70.00
80.00	130.90	131.28	131.66	132.04	132.42	132.80	133.18	133.57	133.95	134.33	80.00
90.00	134.71	135.09	135.47	135.85	136.23	136.61	136.99	137.37	137.75	138.13	90.00
100.00	138.51	138.88	139.26	139.64	140.02	140.40	140.78	141.16	141.54	141.91	100.00
110.00	142.29	142.67	143.05	143.43	143.80	144.18	144.56	144.94	145.31	145.69	110.00
120.00	146.07	146.44	146.82	147.20	147.57	147.95	148.33	148.70	149.08	149.46	120.00
130.00	149.83	150.21	150.58	150.96	151.33	151.71	152.08	152.46	152.83	153.21	130.00
140.00	153.58	153.96	154.33	154.71	155.08	155.46	155.83	156.20	156.58	156.95	140.00
150.00	157.33	157.70	158.07	158.45	158.82	159.19 162.91	159.56	159.94	160.31	160.68	150.00
160.00	161.05	161.43	161.80	162.17	162.54		163.29	163.66	164.03	164.40	160.00
170.00 180.00	164.77 168.48	165.14 168.85	165.51 169.22	165.89 169.59	166.26 169.96	166.63 170.33	167.00 170.70	167.37 171.07	167.74 171.43	168.11 171.80	170.00 180.00
190.00	172.17	172.54	172.91	173.28	173.65	170.33	170.70	171.07	171.43	171.60	190.00
200.00	175.86	176.22	176.59	176.96	173.03	174.02	174.36	174.73	173.12	179.16	200.00
210.00	179.53	170.22	180.26	180.63	180.99	181.36	181.72	182.09	182.46	182.82	210.00
220.00	183.19	183.55	183.92	184.28	184.65	185.01	185.38	185.74	186.11	186.47	220.00
230.00	186.84	187.20	187.56	187.93	188.29	188.66	189.02	189.38	189.75	190.11	230.00
240.00	190.47	190.84	191.20	191.56	191.92	192.29	192.65	193.01	193.37	193.74	240.00
250.00	194.10	194.46	194.82	195.18	195.55	195.91	196.27	196.63	196.99	197.35	250.00
260.00	197.71	198.07	198.43	198.79	199.15	199.51	199.87	200.23	200.59	200.95	260.00
270.00	201.31	201.67	202.03	202.39	202.75	203.11	203.47	203.83	204.19	204.55	270.00
280.00	204.90	205.26	205.62	205.98	206.34	206.70	207.05	207.41	207.77	208.13	280.00
290.00	208.48	208.84	209.20	209.56	209.91	210.27	210.63	210.98	211.34	211.70	290.00
300.00	212.05	212.41	212.76	213.12	213.48	213.83	214.19	214.54	214.90	215.25	300.00
310.00	215.61	215.96	216.32	216.67	217.03	217.38	217.74	218.09	218.44	218.80	310.00
320.00	219.15	219.51	219.86	220.21	220.57	220.92	221.27	221.63	221.98	222.33	320.00
					0.0.	0.0_		0			

°C	0	1	2	3	4	5	6	7	8	9	°C
330.00	222.68	223.04	223.39	223.74	224.09	224.45	224.80	225.15	225.50	225.85	330.00
340.00	226.21	226.56	226.91	227.26	227.61	227.96	228.31	228.66	229.02	229.37	340.00
350.00	229.72	230.07	230.42	230.77	231.12	231.47	231.82	232.17	232.52	232.87	350.00
360.00	233.21	233.56	233.91	234.26	234.61	234.96	235.31	235.66	236.00	236.35	360.00
370.00	236.70	237.05	237.40	237.74	238.09	238.44	238.79	239.13	239.48	239.83	370.00
380.00	240.18	240.52	240.87	241.22	241.56	241.91	242.26	242.60	242.95	243.29	380.00
390.00	243.64	243.99	244.33	244.68	245.02	245.37	245.71	246.06	246.40	246.75	390.00
400.00	247.09	247.44	247.78	248.13	248.47	248.81	249.16	249.50	249.85	250.19	400.00
410.00	250.53	250.88	251.22	251.56	251.91	252.25	252.59	252.93	253.28	253.62	410.00
420.00	253.96	254.30	254.65	254.99	255.33	255.67	256.01	256.35	256.70	257.04	420.00
430.00	257.38	257.72	258.06	258.40	258.74	259.08	259.42	259.76	260.10	260.44	430.00
440.00	260.78	261.12	261.46	261.80	262.14	262.48	262.82	263.16	263.50	263.84	440.00
450.00	264.18	264.52	264.86	265.20	265.53	265.87	266.21	266.55	266.89	267.22	450.00
460.00	267.56	267.90	268.24	268.57	268.91	269.25	269.59	269.92	270.26	270.60	460.00
470.00	270.93	271.27	271.61	271.94	272.28	272.61	272.95	273.29	273.62	273.96	470.00
480.00	274.29	274.63	274.96	275.30	275.63	275.97	276.30	276.64	276.97	277.31	480.00
490.00	277.64	277.98	278.31	278.64	278.98	279.31	279.64	279.98	280.31	280.64	490.00
500.00	280.98	281.31	281.64	281.98	282.31	282.64	282.97	283.31	283.64	283.97	500.00
510.00	284.30	284.63	284.97	285.30	285.63	285.96	286.29	286.62	286.95	287.29	510.00
520.00	287.62	287.95	288.28	288.61	288.94	289.27	289.60	289.93	290.26	290.59	520.00
530.00	290.92	291.25	291.58	291.91	292.24	292.56	292.89	293.22	293.55	293.88	530.00
540.00	294.21	294.54	294.86	295.19	295.52	295.85	296.18	296.50	296.83	297.16	540.00
550.00	297.49	297.81	298.14	298.47	298.80	299.12	299.45	299.78	300.10	300.43	550.00
560.00	300.75	301.08	301.41	301.73	302.06	302.38	302.71	303.03	303.36	303.69	560.00
570.00	304.01	304.34	304.66	304.98	305.31	305.63	305.96	306.28	306.61	306.93	570.00
580.00	307.25	307.58	307.90	308.23	308.55	308.87	309.20	309.52	309.84	310.16	580.00
590.00	310.49	310.81	311.13	311.45	311.78	312.10	312.42	312.74	313.06	313.39	590.00
600.00	313.71	314.03	314.35	314.67	314.99	315.31	315.64	315.96	316.28	316.60	600.00
610.00	316.92	317.24	317.56	317.88	318.20	318.52	318.84	319.16	319.48	319.80	610.00
620.00	320.12	320.43	320.75	321.07	321.39	321.71	322.03	322.35	322.67	322.98	620.00
630.00	323.30	323.62	323.94	324.26	324.57	324.89	325.21	325.53	325.84	326.16	630.00
640.00	326.48	326.79	327.11	327.43	327.74	328.06	328.38	328.69	329.01	329.32	640.00
650.00	329.64	329.96	330.27	330.59	330.90	331.22	331.53	331.85	332.16	332.48	650.00
660.00	332.79	333.11	333.42	333.74	334.05	334.36	334.68	334.99	335.31	335.62	660.00
670.00	335.93	336.25	336.56	336.87	337.18	337.50	337.81	338.12	338.44	338.75	670.00
680.00	339.06	339.37	339.69	340.00	340.31	340.62	340.93	341.24	341.56	341.87	680.00
690.00	342.18	342.49	342.80	343.11	343.42	343.73	344.04	344.35	344.66	344.97	690.00
700.00	345.28	345.59	345.90	346.21	346.52	346.83	347.14	347.45	347.76	348.07	700.00
710.00	348.38	348.69	348.99	349.30	349.61	349.92	350.23	350.54	350.84	351.15	710.00
720.00	351.46	351.77	352.08	352.38	352.69	353.00	353.30	353.61	353.92	354.22	720.00
730.00	354.53	354.84	355.14	355.45	355.76	356.06	356.37	356.67	356.98	357.28	730.00
740.00	357.59	357.90	358.20	358.51	358.81	359.12	359.42	359.72	360.03	360.33	740.00
750.00	360.64	360.94	361.25	361.55	361.85	362.16	362.46	362.76	363.07	363.37	750.00
760.00	363.67	363.98	364.28	364.58	364.89	365.19	365.49	365.79	366.10	366.40	760.00
770.00	366.70	367.00	367.30	367.60	367.91	368.21	368.51	368.81	369.11	369.41	770.00
780.00	369.71	370.01	370.31	370.61	370.91	371.21	371.51	371.81	372.11	372.41	780.00
790.00	372.71	373.01	373.31	373.61	373.91	374.21	374.51	374.81	375.11	375.41	790.00
800.00	375.70	376.00	376.30	376.60	376.90	377.19	377.49	377.79	378.09	378.39	800.00
810.00	378.68	378.98	379.28	379.57	379.87	380.17	380.46	380.76	381.06	381.35	810.00
820.00	381.65	381.95	382.24	382.54	382.83	383.13	383.42	383.72	384.01	384.31	820.00
830.00	384.60	384.90	385.19	385.49	385.78	386.08	386.37	386.67	386.96	387.25	830.00
840.00	387.55	387.84	388.14	388.43	388.72	389.02	389.31	389.60	389.90	390.19	840.00
850.00	390.48										850.00

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