



RESISTANCE VALUES FOR Pt 100 TEMPERATURE SENSORS

Resistance values in ohm for Pt 100 as per DIN IEC 751

	0°C	-10°C	-20°C	-30°C	-40°C	-50°C	-60°C	-70°C	-80°C	-90°C
-200°C	18.44	14.26	10.35	7.06	4.49	2.52	-	-	-	-
-100°C	60.20	56.13	52.04	47.93	43.80	39.65	35.48	31.28	27.03	22.71
0°C	100.00	96.07	92.13	88.17	84.21	80.25	76.28	72.29	68.28	64.25

	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C	80°C	90°C
0°C	100.00	103.90	107.79	111.67	115.54	119.40	123.24	127.07	130.89	134.70
100°C	138.50	142.28	146.06	149.82	153.57	157.32	161.04	164.76	168.47	172.16
200°C	175.84	179.51	183.17	186.82	190.46	194.08	197.70	201.30	204.88	208.46
300°C	212.03	215.58	219.13	222.66	226.18	229.69	233.19	236.67	240.15	243.61
400°C	247.06	250.50	253.93	257.34	260.75	264.14	267.52	270.89	247.25	277.60
500°C	280.93	284.26	287.57	290.87	294.16	297.43	300.70	303.95	307.20	310.43
600°C	313.65	316.86	320.05	323.24	326.41	329.41	332.72	335.86	338.99	342.10
700°C	345.21	348.30	351.38	354.45	357.51	360.55	363.59	366.61	369.62	372.62
800°C	375.61	378.59	381.55	384.50	387.45	390.38	-	-	-	-

0.380 - 0.382 ohm/degree

Permissible deviation from basic value for Pt 100 as per DIN IEC 751

BASIC VALUE		CLASS A		CLASS B		1/3 DIN	
°C	Ohm	°C	Ohm	°C	Ohm	°C	Ohm
-200°C	18.44	±0.55	±0.24	±1.3	±0.56	±0.4	±0.19
-100°C	60.20	±0.35	±0.14	±0.8	±0.32	±0.3	±0.11
0°C	100.00	±0.15	±0.06	±0.3	±0.12	±0.1	±0.04
100°C	138.5	±0.35	±0.13	±0.8	±0.3	±0.3	±0.10
200°C	175.84	±0.55	±0.20	±1.3	±0.48	±0.4	±0.16
300°C	212.03	±0.75	±0.27	±1.8	±0.64	±0.6	±0.21
400°C	247.06	±0.95	±0.33	±2.3	±0.79	±0.8	±0.26
500°C	280.93	±1.15	±0.38	±2.8	±0.93	±0.9	±0.31
600°C	313.65	±1.35	±0.43	±3.3	±1.06	±1.1	±0.35
650°C	329.41	±1.45	±0.46	±3.6	±1.13	±1.2	±0.38
700°C	345.21	-	-	±3.8	±1.17	±1.3	±0.39
800°C	375.61	-	-	±4.3	±1.28	±1.4	±0.43
850°C	390.38	-	-	±4.6	±1.34	±1.5	±0.45