

# RESISTANCE THERMOMETER ELEMENTS CRZ



## PLATINUM THIN-FILM ELEMENTS Pt100, Pt500, Pt1000

Official Distributor

***α Therm***

temperaturbegrenzende Sicherheitsbauteile  
Sensorelemente oder Sensoren

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High-tech temperature detectors  
**HAYASHI DENKO CO.,LTD.**

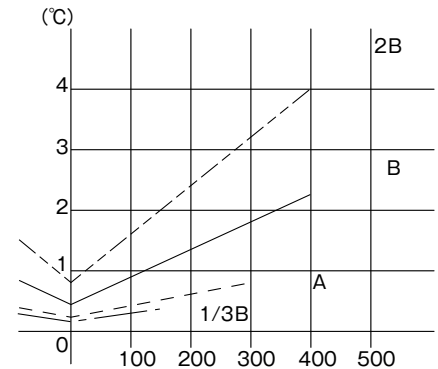






## Tolerance Against Temperature (Pt100)

Temperature (°C)	Resistance Value (Ω)	1/3B		A		B		2B	
		°C	Ω	°C	Ω	°C	Ω	°C	Ω
-40	84.27					±0.5	±0.25	±1.0	±0.4
0	100.00	±0.10	±0.04	±0.15	±0.06	±0.3	±0.12	±0.6	±0.24
100	138.51	±0.27	±0.10	±0.35	±0.14	±0.8	±0.30	±1.6	±0.61
200	175.86	±0.44	±0.16	±0.55	±0.20	±1.3	±0.48	±2.6	±0.96
300	212.05			±0.75	±0.27	±1.8	±0.64	±3.6	±1.28
400	247.09			±0.95	±0.33	±2.3	±0.79	±4.6	±1.59
500	280.98					±2.8	±0.93	±5.6	±1.87



## Pt100 Resistance Table

JIS C 1604-1997, IEC751-1995

Temperature (°C)	-100	-0	Temperature (°C)	0	100	200	300	400	500	600	700	800
-0	60.26 4.07	100.00 3.91	0	100.00 3.90	138.51 3.78	175.86 3.67	212.05 3.56	247.09 3.44	280.98 3.32	313.71 3.21	345.28 3.10	375.70 2.98
-10	56.19 4.08	96.09 3.93	10	103.90 3.89	142.29 3.78	179.53 3.66	215.61 3.54	250.53 3.43	284.30 3.32	316.92 3.20	348.38 3.08	378.68 2.97
-20	52.11 4.11	92.16 3.94	20	107.79 3.88	146.07 3.76	183.19 3.65	219.15 3.53	253.96 3.42	287.62 3.30	320.12 3.18	351.46 3.07	381.65 2.95
-30	48.00 4.12	88.22 3.95	30	111.67 3.87	149.83 3.75	186.84 3.63	222.68 3.53	257.38 3.40	290.92 3.29	323.30 3.18	354.53 3.06	384.60 2.95
-40	43.88 4.16	84.27 3.96	40	115.54 3.86	158.58 3.75	190.47 3.63	226.21 3.51	260.78 3.40	294.21 3.28	326.48 3.16	357.59 3.05	387.55 2.93
-50	39.72 4.18	80.31 3.98	50	119.40 3.84	157.33 3.72	194.10 3.61	229.72 3.49	264.18 3.38	297.49 3.26	329.64 3.15	360.64 3.03	390.48
-60	35.54 4.20	76.33 4.00	60	123.24 3.84	161.05 3.72	197.71 3.60	233.21 3.49	267.56 3.37	300.75 3.26	332.79 3.14	363.67 3.03	
-70	31.34 4.24	72.33 4.00	70	127.08 3.82	164.77 3.71	201.31 3.59	263.70 3.48	270.93 3.36	304.01 3.24	335.93 3.13	366.70 3.01	
-80	27.10 4.27	68.33 4.03	80	130.90 3.81	168.48 3.69	204.90 3.58	240.18 3.46	274.29 3.35	307.25 3.24	339.06 3.12	369.71 3.00	
-90	22.85 4.31	64.30 4.04	90	134.71 3.80	172.17 3.69	208.48 3.57	243.64 3.45	277.64 3.34	310.49 3.22	342.18 3.10	372.71 2.99	
-100	18.52	60.26	100	138.51	175.86	212.05	247.09	280.98	313.71	345.28	375.70	

The figures under the resistance values are resistance values change at every 10°C respectively.

To obtain the resistance values of Pt500 Ω and Pt1000 Ω, multiply the above values by 5 and 10, respectively.

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S11-DO1

● Specifications are subject to change without notice.

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