



- -30-100°C Operating Temperature
- Temperature Sensor - .1C Resolution
- Overmolded NTC (RTDs available) probe
- IP67/IP68
- Media – Liquid, Air, & Gas
- RoHS compliant

### DESCRIPTION

The PTS10 temperature sensors are designed for temperature applications requiring IP68 waterproof type sensor probes. Using unique thermoplastic elastomer materials along with a double or triple reinforced overmolding process allows for these sensors to stay in liquid indefinitely. This protects the NTC against virtually any water ingress. The low cost automated manufacturing process allows for a cost effective solution.

### APPLICATIONS

- Industrial Automation
- HVAC
- Semiconductor
- Liquid /Gas Chromatography
- Commercial Ovens

### Maximum Environmental Ratings

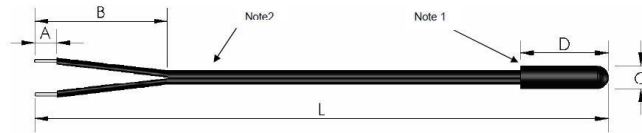
Operating Temperature ..... -30°C to 100°C

Storage Temperature Range ..... -55°C to 150°C

## EXAMPLE - Resistance vs Temperature Chart

Ohm (K)	Temp (C)	Ohm (K)	Temp (C)	Ohm (K)	Temp (C)	Ohm (K)	Temp (C)	Ohm (K)	Temp (C)	Ohm (K)	Temp (C)	Ohm (K)	Temp (C)
100.58	-28	40.55	-9	17.24	11	8.02	31	4.03	51	2.16	71	1.23	91
95.64	-27	38.76	-8	16.56	12	7.73	32	3.9	52	2.1	72	1.2	92
90.97	-26	37.06	-7	15.91	13	7.46	33	3.77	53	2.04	73	1.17	93
86.55	-25	35.44	-6	15.29	14	7.2	34	3.66	54	1.98	74	1.14	94
82.37	-24	33.91	-5	14.69	15	6.95	35	3.54	55	1.93	75	1.11	95
78.42	-23	32.44	-4	14.12	16	6.7	36	3.43	56	1.87	76	1.08	96
74.68	-22	31.05	-3	13.58	17	6.47	37	3.32	57	1.82	77	1.05	97
71.13	-21	29.73	-2	13.06	18	6.25	38	3.22	58	1.77	78	1.02	98
67.77	-20	28.47	-1	12.56	19	6.04	39	3.12	59	1.72	79	1	99
64.59	-19	27.27	0	12.09	20	5.83	40	3.02	60	1.67	80	0.97	100
61.58	-18	26.12	1	11.63	21	5.63	41	2.93	61	1.62	81		
58.72	-17	25.03	2	11.2	22	5.44	42	2.84	62	1.58	82		
56.01	-16	23.99	3	10.78	23	5.26	43	2.75	63	1.53	83		
53.44	-15	23	4	10.38	24	5.08	44	2.67	64	1.49	84		
51.01	-14	22.06	5	10	25	4.92	45	2.59	65	1.45	85		
48.69	-13	21.16	6	9.63	26	4.75	46	2.51	66	1.41	86		
46.5	-12	20.3	7	9.28	27	4.6	47	2.44	67	1.37	87		
44.41	-11	19.48	8	8.95	28	4.45	48	2.37	68	1.34	88		
42.43	-10	18.7	9	8.62	29	4.3	49	2.3	69	1.3	89		
		17.95	10	8.31	30	4.16	50	2.23	70	1.27	90		

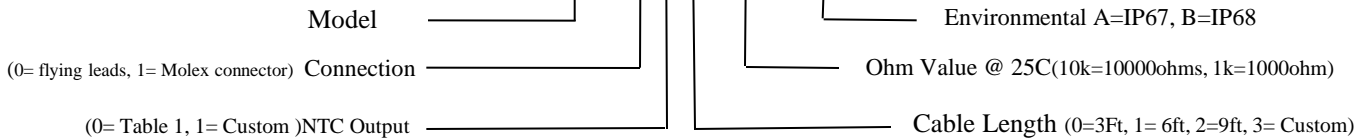
## Mechanical Dimensions (inches),



	Dimension			
	A	B	C	D
	5 ± 1mm	35 ± 3mm	Ø 5mm	15 ± 1mm
Note 1	NTC encapsulated using White TPU over-mold material (Temp. Rating +125°C)			
Note 2	24AWG (7/32) Tin plated Zipcord cable with Black TPE jacket (Temp. Rating +125°C)			

## Part Number Configuration

# PTS1000-10KA



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