

ETP-OP-150-10K3A1B

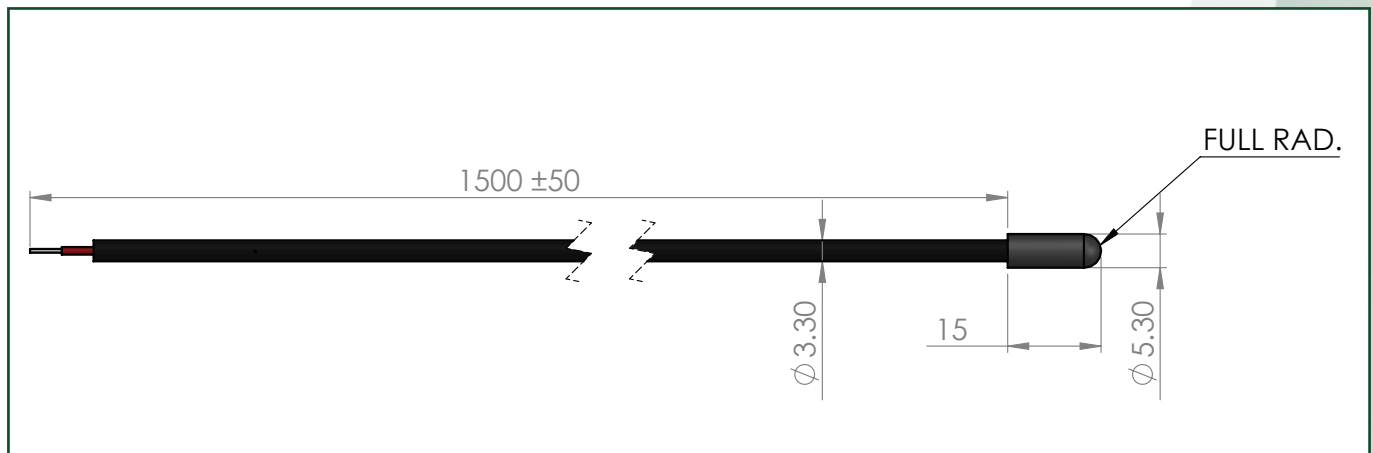
- Miniature design, $\varnothing 5.3$ mm and 15 mm length
- Insulated and encapsulated with Thermoplastic Elastomer
- Temperature range -40 to $+125^{\circ}\text{C}$
- Resistance values from $10\text{ k}\Omega$
- Aimed at HVAC and building management



The ETP-OP-150-10K3A1B moulds a high quality NTC thermistor and a soldered PVC cable into a single highly durable probe assembly. The IP67 rated sensor offers a high degree of protection against water and moisture ingress and is an ideal solution for ambient air temperature sensing applications throughout building management and HVAC.

Ordering code and dimensions for standard stock model:

Stock model number: 93681 - ETP-OP-150-10K3A1B



Technical parameters

	Unit	Value
Nominal resistance at $+25^{\circ}\text{C}$	Ohms	10,000
Resistance tolerance from $0..70^{\circ}\text{C}$	$^{\circ}\text{C}$	± 0.2
Beta value 25/85	K	3976
Tolerance on Beta value	%	± 0.5
Temperature range	$^{\circ}\text{C}$	-40 to $+125$
Insulation Resistance	$\text{M}\Omega/\text{VDC}$	100/500
Time Response $+25^{\circ}\text{C}$ to 70°C . (63.2% Span)	Seconds	Approx. 15
Leads and insulation	2x AWG24 Stranded tinned copper, Black Insulation PVC, OD-3.3mm	
Environmental rating	IP67	

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Resistance v. temperature table for 10K3A1B Thermistor

Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms	Temp. °C	Ohms
-40	336,052	3	28,054	46	4,200.0	89	944.7
-39	314,512	4	26,687	47	4,040.2	90	916.0
-38	294,487	5	25,395	48	3,887.4	91	888.3
-37	275,863	6	24,172	49	3,741.1	92	861.5
-36	258,533	7	23,016	50	3,601.1	93	835.7
-35	242,399	8	21,921	51	3,467.1	94	810.8
-34	227,373	9	20,884	52	3,338.7	95	786.8
-33	213,371	10	19,903	53	3,215.8	96	763.6
-32	200,318	11	18,973	54	3,098.0	97	741.2
-31	188,144	12	18,092	55	2,985.2	98	719.5
-30	176,786	13	17,257	56	2,877.0	99	698.6
-29	166,183	14	16,465	57	2,773.3	100	678.4
-28	156,280	15	15,714	58	2,673.9	101	658.9
-27	147,029	16	15,001	59	2,578.6	102	640.0
-26	138,382	17	14,324	60	2,487.1	103	621.8
-25	130,296	18	13,682	61	2,399.4	104	604.1
-24	122,732	19	13,073	62	2,315.2	105	587.1
-23	115,653	20	12,493	63	2,234.4	106	570.6
-22	109,025	21	11,943	64	2,156.8	107	554.6
-21	102,817	22	11,420	65	2,082.3	108	539.2
-20	97,000	23	10,923	66	2,010.8	109	524.3
-19	91,547	24	10,450	67	1,942.1	110	509.8
-18	86,433	25	10,000	68	1,876.0	111	495.8
-17	81,636	26	9,572.0	69	1,812.6	112	482.3
-16	77,134	27	9,164.7	70	1,751.6	113	469.2
-15	72,907	28	8,777.0	71	1,693.0	114	456.5
-14	68,937	29	8,407.8	72	1,636.6	115	444.2
-13	65,206	30	8,056.1	73	1,582.4	116	432.3
-12	61,700	31	7,721.0	74	1,530.2	117	420.8
-11	58,403	32	7,401.7	75	1,480.1	118	409.6
-10	55,301	33	7,097.3	76	1,431.8	119	398.8
-9	52,383	34	6,807.1	77	1,385.3	120	388.3
-8	49,636	35	6,530.3	78	1,340.6	121	378.2
-7	47,049	36	6,266.3	79	1,297.5	122	368.3
-6	44,612	37	6,014.3	80	1,256.1	123	358.8
-5	42,315	38	5,773.8	81	1,216.1	124	349.5
-4	40,150	39	5,544.3	82	1,177.7	125	340.6
-3	38,109	40	5,325.0	83	1,140.6		
-2	36,183	41	5,115.7	84	1,104.9		
-1	34,366	42	4,915.6	85	1,070.4		
0	32650	43	4,724.5	86	1,037.3		
1	31,030	44	4,541.7	87	1,005.3		
2	29,500	45	4,367.1	88	974.4		