

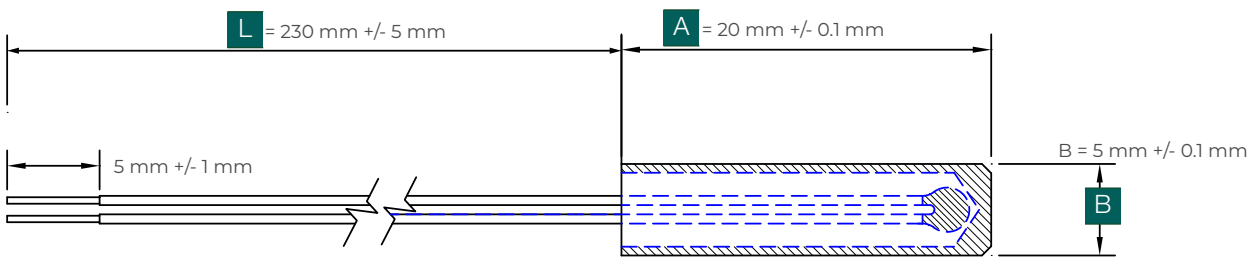
- **Temperature range -40 to +125°C**
- **Miniature design with 5 mm OD**
- **General instrumentation temperature probe In brass housing**
- **Resistance values from 2.2 - 100 kΩ**
- **Custom designs available**
- **Higher temperature range available**

Applications:

Heating / cooling systems
HVAC
Laboratory
Drilling
Industrial process Energy

Specifications		
	Unit	Value
Nominal resistance at +25°C	Ohms	10,000
Resistance tolerance from 0..70°C	°C	+/- 0.2
Beta value 25/85	K	3977
Tolerance on Beta value 25/85	%	+/- 0.5
Dissipation constant in still air	mW/°C	2
Working temperature	°C	-40..125
Epoxy thermal conductivity	W/(m.K)	1.7
Material		
Leads and insuation	28AWG Solid silver plated copper leads with white Kynar insulation	
Probe material	Brass	
Wiring Thermistor		
Red + Blue	Thermistor	
Green + Yellow	No connect	

Dimensions



TEMPERATURE SENSOR
LTP-TP-B

Ordering information

(Please use the characters in the chart below to construct your product code)

							A		B		L			
Example Code	LTP	-	TP	-	B	-	2	-	5	-	23	-	EB-10k3977-02	

Probe Housing Length

2	20 mm
x	Custom length

Probe Housing Diameter

5	5,0 mm
x	Custom diameter

Probe cable length

5	50 mm
10	100 mm
15	150 mm
20	200 mm
23	230 mm
25	250 mm
30	300 mm
35	350 mm
40	400 mm
45	450 mm
x	Custon length

Thermistor Type

All thermistor types available: Insert details are required

If you require a customized solution for your program contact our sales team.

TEMPERATURE SENSOR
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Resistance v. temperature table for EB-10k3977-02 Thermistor

R(25) = 10000 Ohm B(25/85) = 3977K ± 0.5%

Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ
-30	176.976	11	18.970	51	3.468	92	0.861	133	0.279
-29	166.354	12	18.091	52	3.340	93	0.835	134	0.272
-28	156.443	13	17.256	53	3.217	94	0.810	135	0.266
-27	147.176	14	16.461	54	3.099	95	0.786	136	0.259
-26	138.517	15	15.710	55	2.986	96	0.763	137	0.253
-25	130.422	16	15.000	56	2.878	97	0.741	138	0.247
-24	122.846	17	14.325	57	2.774	98	0.720	139	0.241
-23	115.759	18	13.681	58	2.675	99	0.698	140	0.235
-22	109.121	19	13.073	59	2.579	100	0.679	141	0.230
-21	102.904	20	12.491	60		101	0.659	142	0.224
-20	97.083	21	11.940	61	2.400	102	0.640	143	0.219
-19	91.621	22	11.421	62	2.316	103	0.622	144	0.214
-18	86.501	23	10.924	63	2.235	104	0.605	145	0.209
-17	81.696	24	10.448	64	2.157	105	0.587	146	0.204
-16	77.189	25	10.000	65	2.083	106	0.571	147	0.199
-15	72.957	26	9.574	66	2.011	107	0.556	148	0.195
-14	68.983	27	9.165	67	1.942	108	0.540	149	0.190
-13	65.244	28	8.779	68	1.876	109	0.525	150	0.186
-12	61.736	29	8.406	69	1.813	110	0.511		
-11	58.433	30	8.055	70	1.752	111	0.497		
-10	55.329	31	7.722	71	1.693	112	0.483		
-9	52.407	32	7.402	72	1.637	113	0.470		
-8	49.658	33	7.096	73	1.582	114	0.457		
-7	47.065	34	6.807	74	1.530	115	0.445		
-6	44.627	35	6.532	75	1.480	116	0.433		
-5	42.327	36	6.266	76	1.432	117	0.422		
-4	40.160	37	6.017	77	1.385	118	0.411		
-3	38.113	38	5.777	78	1.340	119	0.400		
-2	36.186	39	5.549	79	1.297	120	0.390		
-1	34.369	40	5.324	80	1.255	121	0.379		
0	32.650	41	5.115	81	1.215	122	0.370		
1	31.030	42	4.916	82	1.177	123	0.360		
2	29.498	43	4.725	83	1.140	124	0.351		
3	28.051	44	4.543	84	1.104	125	0.342		
4	26.683	45	4.368	85	1.070	126	0.333		
5	25.391	46	4.201	86	1.037	127	0.325		
6	24.170	47	4.041	87	1.005	128	0.317		
7	23.015	48	3.888	88	0.974	129	0.309		
8	21.918	49	3.742	89	0.944	130	0.301		
9	20.884	50	3.602	90	0.916	131	0.294		
10	19.902	51	3.468	91	0.888	132	0.286		