

Surface Mount Flag Terminal Probe



NTC Temperature Sensor
Various lead lengths available
Various Mounting hole sizes available
Available with connector attachment
RoHS Compliant

DESCRIPTION

NTC Thermistor bead is soldered to extension wires. Unit is potted in a Mylar tube. The device is then potted in the Flag Terminal housing using Black epoxy Resin.

FEATURES

- Copper housing material has excellent thermal transfer characteristics.
- Flag terminals are available in several sizes allowing a wide choice of extension wire and cables to be used in the assembly.
- Alternative hole sizes available
- Custom tolerances available
- Available in a range of R/T curves
- Temperature range -40°C to +125°C

APPLICATIONS

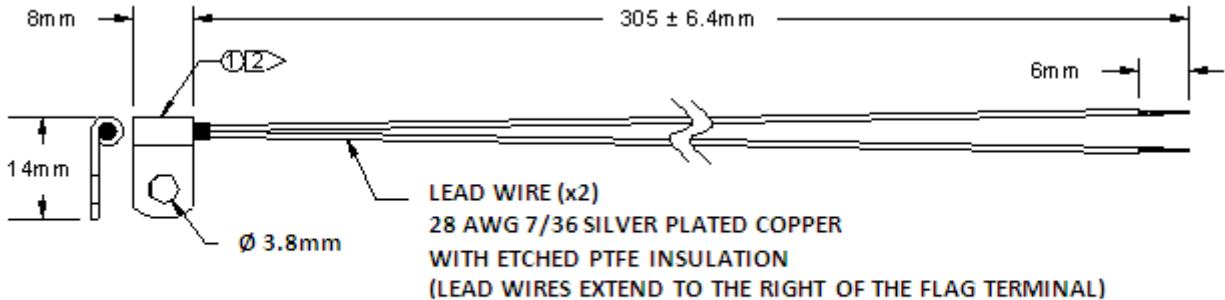
- Designed for bolt-in-place applications.
- Used to measure, compensate and control temperatures of motors, surface plates, heat exchangers, and fluid pumping systems
- Heat sink applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
Resistance tolerance from 0°C to +70°C	°C	± 0.2
Beta Value 25/85	K	3694
Tolerance on Beta Value 25/85	%	± 0.5
Time response in Liquids	Seconds	<5

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MECHANICAL DETAILS



NOTES:

- (1) HOUSING: "FLAG TERMINAL" TIN PLATED COPPER, #6 MOUNTING HOLE
- (2) ENCAPSULATION: THERMALLY CONDUCTIVE BLACK EPOXY

Figure 1: Surface Mount Flag Terminal Probe

RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms
-40	239828
-39	226103
-38	213243
-37	201188
-36	189885
-35	179282
-34	169331
-33	159991
-32	151219
-31	142978
-30	135233
-29	127952
-28	121104
-27	114661
-26	108598
-25	102889
-24	97513
-23	92448
-22	87675
-21	83174
-20	78930
-19	74926
-18	71148
-17	67581
-16	64212

Temp. °C	Ohms
-15	61031
-14	58024
-13	55182
-12	52495
-11	49954
-10	47549
-9	45274
-8	43119
-7	41079
-6	39147
-5	37316
-4	35580
-3	33935
-2	32375
-1	30895
0	29490
1	28157
2	26891
3	25689
4	24547
5	23462
6	22431
7	21450
8	20518
9	19631

Temp. °C	Ohms
10	18787
11	17983
12	17219
13	16490
14	15797
15	15136
16	14506
17	13906
18	13334
19	12788
20	12268
21	11771
22	11297
23	10845
24	10413
25	10000
26	9606
27	9229
28	8869
29	8525
30	8196
31	7882
32	7581
33	7293
34	7018

Temp. °C	Ohms
35	6754
36	6501
37	6260
38	6028
39	5806
40	5594
41	5390
42	5195
43	5007
44	4828
45	4656
46	4490
47	4332
48	4180
49	4034
50	3893
51	3759
52	3629
53	3505
54	3386
55	3271
56	3160
57	3054
58	2952
59	2854

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60	2760
61	2669
62	2582
63	2498
64	2417
65	2339
66	2264
67	2191
68	2122
69	2055
70	1990
71	1928
72	1868
73	1810
74	1754
75	1700
76	1648

77	1598
78	1550
79	1503
80	1458
81	1414
82	1372
83	1332
84	1293
85	1255
86	1218
87	1183
88	1149
89	1116
90	1084
91	1053
92	1023
93	995

94	967
95	940
96	914
97	888
98	864
99	840
100	817
101	795
102	773
103	752
104	732
105	713
106	694
107	676
108	658
109	641
110	624

111	608
112	592
113	577
114	562
115	548
116	534
117	521
118	508
119	495
120	483
121	471
122	459
123	448
124	437
125	426

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K4D25	Surface Mount Flag Terminal Probe	10,000	1,000 *

* For quantities less than Minimum Order Quantity – contact distribution

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