Model 405 Air Temperature Probe



- 400 series nominal resistance response curve
- 2252.4 ohm Resistance @ 25°C (including lead wire resistance)
- Interchangeable ±0.1°C, 0°C to 70°C
- Pressed Disk Ceramic Sensor
- High sensitivity
- ½" phone plug connector
- SS Cage protects sensor

DESCRIPTION

400-series air temperature probe

FEATURES

- Fast response
- Standard 400 series resistance response
- Standard ¼" phone plug connector
- Short term exposure to 150°C (except cable)
- · Physically protected sensor

APPLICATIONS

- Incubator temperature
- Test vessel temperature
- Laboratory room temperature
- Oven temperature
- Refrigerator temperature

PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C (including lead resistance)	Ohms	2252.4
Tolerance 0°C to 70°C	°C	± 0.1
Beta Value 25/85	K	3976
Tolerance on Beta Value	%	0.4
Typical response time in air	Seconds	< 10
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500
Liquid immersion with 15VDC applied	Ohms	> 15Meg

MECHANICAL DETAILS

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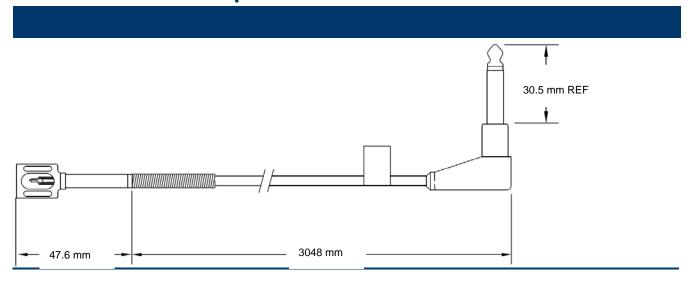
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TYPICAL PERFORMANCE CURVES

Temp °C	K-Ohms
0	7.3554
1	6.9894
2	6.6444
3	6.3194
4	6.0114
5	5.7194
6	5.4444
7	5.1834
8	4.9374
9	4.7034
10	4.4824
11	4.2734
12	4.0744
13	3.8864
14	3.7084
15	3.5394
16	3.3784
17	3.2264
18	3.0814
19	2.9444
20	2.8144
21	2.6904
22	2.5724
23	2.4604
24	2.3544

Temp °C	K-Ohms
25	2.2524
26	2.1564
27	2.0644
28	1.9774
29	1.8944
30	1.8154
31	1.7394
32	1.6674
33	1.5994
34	1.5334
35	1.4714
36	1.4124
37	1.3554
38	1.3014
39	1.2494
40	1.2004
41	1.1524
42	1.1074
43	1.0644
44	1.0234
45	0.9842
46	0.9466
47	0.9106
48	0.8762
49	0.8432

K-Ohms
0.8117
0.7815
0.7526
0.7249
0.6983
0.6729
0.6485
0.6252
0.6028
0.5813
0.5607
0.5409
0.5219
0.5037
0.4862
0.4694
0.4533
0.4378
0.4229
0.4086
0.3949



Model 405 Air Temperature Probe

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
081105	405 PROBE,THERM	2252.4	15

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