

# 44106 Thermistor with FEP Sheath



**FEP Sheath for Hostile Environments**  
**10,000 ohm Resistance @ 25°C**  
**Interchangeable  $\pm 0.2^\circ\text{C}$ ,  $0^\circ\text{C}$  to  $70^\circ\text{C}$ ,**  
**Pressed Disk Ceramic Sensor**  
**High sensitivity**  
**Thermally conductive epoxy coating**  
**32 AWG, 3" (7.6 cm) long Silver plated**  
**copper leads**  
**RoHS Compliant**

## DESCRIPTION

FEP sheathed epoxy encapsulated precision interchangeable NTC thermistor utilizing high stability pressed-disk ceramic sensor for use in harsh chemical environments. Sensor is protected by a 2" (51mm) FEP sheath for protection from harsh chemicals. One inner lead is sleeved with PTFE tubing for insulation. A nickel stiffening wire allows shaping of the sheath.

## FEATURES

- FEP Sheath
- 10,000 Ohm Resistance @ 25°C
- Interchangeability
- Good Long Term Stability
- High Sensitivity
- Thermally Conductive Epoxy Coating
- RoHS Compliance

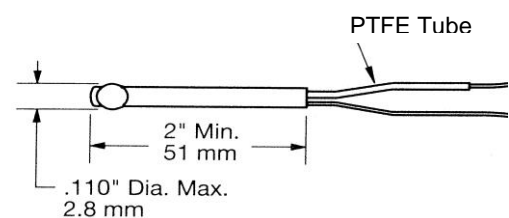
## APPLICATIONS

- Harsh Chemical Environments
- Mid-range Temperature Applications
- Tight Tolerance Applications
- General Applications Requiring Stability
- Applications Requiring Sensing Small Changes in Temperature
- Non-condensing Moisture Environments
- Allows use in Applications World-wide

## PERFORMANCE SPECS

Parameter	Units	Value
Resistance @ 25°C	Ohms	10,000
Tolerance 0°C to 70°C	°C	$\pm 0.2$
Beta Value 25/85	K	3694
Tolerance on Beta Value	%	0.8
Time response in air	Seconds	< 25
Insulation Resistance (Min. of 100Mohms for 1 Sec.)	Volts	500

## MECHANICAL DETAILS



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## RESISTANCE V TEMPERATURE TABLE

Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms	Temp °C	K-Ohms
-55	607.800	-14	58.010	27	9.227	68	2.1220	109	0.6403
-54	569.600	-13	55.170	28	8.867	69	2.0550	110	0.6235
-53	534.100	-12	52.480	29	8.523	70	1.9900	111	0.6073
-52	501.000	-11	49.940	30	8.194	71	1.9280	112	0.5916
-51	470.100	-10	47.540	31	7.880	72	1.8680	113	0.5764
-50	441.300	-9	45.270	32	7.579	73	1.8100	114	0.5616
-49	414.500	-8	43.110	33	7.291	74	1.7540	115	0.5473
-48	389.400	-7	41.070	34	7.016	75	1.7000	116	0.5334
-47	366.000	-6	39.140	35	6.752	76	1.6480	117	0.5199
-46	344.100	-5	37.310	36	6.500	77	1.5980	118	0.5068
-45	323.700	-4	35.570	37	6.258	78	1.5490	119	0.4941
-44	304.600	-3	33.930	38	6.026	79	1.5030	120	0.4818
-43	286.700	-2	32.370	39	5.805	80	1.4580	121	0.4698
-42	270.000	-1	30.890	40	5.592	81	1.4140	122	0.4582
-41	254.400	0	29.490	41	5.389	82	1.3720	123	0.4469
-40	239.800	1	28.150	42	5.193	83	1.3320	124	0.4359
-39	226.000	2	26.890	43	5.006	84	1.2930	125	0.4253
-38	213.200	3	25.690	44	4.827	85	1.2550	126	0.4149
-37	201.100	4	24.550	45	4.655	86	1.2180	127	0.4049
-36	189.800	5	23.460	46	4.489	87	1.1830	128	0.3951
-35	179.200	6	22.430	47	4.331	88	1.1490	129	0.3856
-34	169.300	7	21.450	48	4.179	89	1.1160	130	0.3764
-33	160.000	8	20.520	49	4.033	90	1.0840	131	0.3674
-32	151.200	9	19.630	50	3.893	91	1.0530	132	0.3587
-31	143.000	10	18.790	51	3.758	92	1.0230	133	0.3503
-30	135.200	11	17.980	52	3.629	93	0.9942	134	0.3420
-29	127.900	12	17.220	53	3.504	94	0.9663	135	0.3340
-28	121.100	13	16.490	54	3.385	95	0.9393	136	0.3263
-27	114.600	14	15.790	55	3.270	96	0.9132	137	0.3187
-26	108.600	15	15.130	56	3.160	97	0.8879	138	0.3113
-25	102.900	16	14.500	57	3.054	98	0.8634	139	0.3042
-24	97.490	17	13.900	58	2.952	99	0.8397	140	0.2972
-23	92.430	18	13.330	59	2.854	100	0.8168	141	0.2904
-22	87.660	19	12.790	60	2.760	101	0.7946	142	0.2838
-21	83.160	20	12.260	61	2.669	102	0.7731	143	0.2774
-20	78.910	21	11.770	62	2.582	103	0.7523	144	0.2712
-19	74.910	22	11.290	63	2.497	104	0.7321	145	0.2651
-18	71.130	23	10.840	64	2.417	105	0.7126	146	0.2592
-17	67.570	24	10.410	65	2.3390	106	0.6936	147	0.2534
-16	64.200	25	10.000	66	2.2640	107	0.6753	148	0.2478
-15	61.020	26	9.605	67	2.1910	108	0.6575	149	0.2423
								150	0.2370

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## ORDERING INFORMATION

Part Number	Description	$\Omega$ @25°C	MOQ
095405	44106 THERM, FEP ENCAPSULATED	10,000	60

\* For quantities less than Minimum Order Quantity – contact distribution

### NORTH AMERICA

Measurement Specialties, Inc.  
2670 Indian Ripple Road  
Dayton, OH 45440  
Tel: 1-937-427-1231  
Fax: 1-937-427-1640

Sales email:  
[temperature.info.dayton@meas-spec.com](mailto:temperature.info.dayton@meas-spec.com)

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Fax: +353-91-770789

Sales email:  
[temperature.sales.emea@meas-spec.com](mailto:temperature.sales.emea@meas-spec.com)

### ASIA

Measurement Specialties (China) Ltd.  
No. 26 Langshan Road  
Shenzhen High-Tech Park (North)  
Nanshan District, Shenzhen 518057  
China  
Tel: +86 (0) 755 33305088  
Fax: +86 (0) 755 33305099

Sales email:  
[temperature.sales.asia@meas-spec.com](mailto:temperature.sales.asia@meas-spec.com)

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