



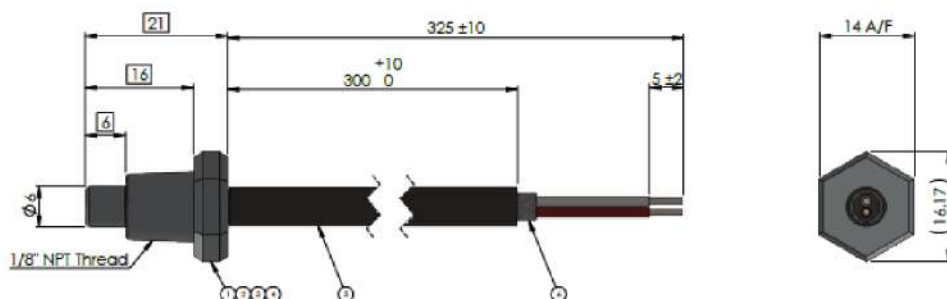
- ▶ Cost effective standard model
- ▶ Robust and compact design
- ▶ For harsh environments
- ▶ Wide environmental temperature range

The ETP-MO-SP has been specifically designed for demanding temperature measurement tasks as can be found in motor vehicles. The probe is designed to withstand shock and vibration due to a robust overall construction. The selected materials are oil and fuel resistant for use in typical mobile applications whilst supporting a wide environmental temperature range.

Specifications

Element:	NTC Thermistor
Resistance at +25 °C:	10000 Ω
Resistance Tolerance at +25°C	±1%
Beta Value 25/85 constant	3435K ± 1%
Working temperature:	-40° C to +230° C
Environmental temperature:	-40° C to +150° C
Sealing:	IP67
Housing:	316 stainless steel
Cable:	2 core AWG 20 oil/fuel resistant cable with stainless steel braid
Heat shrink:	Raychem DR-25

Dimensions in mm



Ordering information

Order code: 25936-ETP-MO-SP-1/8NPT-30-G1B-10k3435-1

PITCH TECHNOLOGIES

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ETP - MO - 18NPT - 30 - G1B - 10K3435 - 1 Temperature Probe 08/24



Resistance vs. temperature table for 10k3435-1

R(25) = 10000 Ohm

B(25/85) = 3435K

Temp.	R _{min}	R _{nom.}	R _{max}
(°C)	(KΩ)	(KΩ)	(KΩ)
-40	194.3148	202.2693	210.5284
-39	183.6545	191.0637	198.7519
-38	173.6512	180.5546	187.7137
-37	164.2602	170.6944	177.3629
-36	155.44	161.4387	167.6521
-35	147.1525	152.7468	158.5379
-34	139.362	144.5807	149.9798
-33	132.0356	136.9052	141.9402
-32	125.1427	129.6879	134.3847
-31	118.6551	122.8985	127.281
-30	112.5462	116.5089	120.5991
-29	106.7917	110.4932	114.3116
-28	101.3688	104.8272	108.3927
-27	96.2564	99.4883	102.8185
-26	91.4348	94.4558	97.5669
-25	86.8857	89.7101	92.6171
-24	82.592	85.2332	87.9501
-23	78.5378	81.0082	83.5479
-22	74.7084	77.0194	79.394
-21	71.09	73.2523	75.4729
-20	67.6695	69.6931	71.77
-19	64.4351	66.3291	68.272
-18	61.3754	63.1485	64.9663
-17	58.4801	60.1402	61.8412
-16	55.7394	57.2939	58.8858
-15	53.144	54.5998	56.0899
-14	50.6855	52.049	53.4439
-13	48.3557	49.633	50.9389
-12	46.1473	47.3439	48.5666
-11	44.0532	45.1743	46.3193
-10	42.0668	43.1172	44.1894
-9	40.182	41.1663	42.1705
-8	38.3929	39.3153	40.2558
-7	36.6943	37.5587	38.4396
-6	35.0809	35.891	36.7161
-5	33.5482	34.3074	35.0803
-4	32.0914	32.8029	33.5268
-3	30.7066	31.3734	32.0515
-2	29.3896	30.0145	30.6497
-1	28.1368	28.7225	29.3174

0	26.9448	27.4936	28.0508
1	25.8102	26.3245	26.8463
2	24.73	25.2119	25.7006
3	23.7012	24.1527	24.6103
4	22.7213	23.1442	23.5726
5	21.7874	22.1835	22.5846
6	20.8972	21.2682	21.6436
7	20.0485	20.3959	20.7472
8	19.2392	19.5644	19.8931
9	18.467	18.7714	19.0789
10	17.7303	18.0151	18.3027
11	17.027	17.2935	17.5624
12	16.3556	16.6048	16.8561
13	15.7145	15.9475	16.1823
14	15.102	15.3198	15.5391
15	14.5169	14.7203	14.9251
16	13.9575	14.1475	14.3386
17	13.423	13.6003	13.7786
18	12.9117	13.0772	13.2435
19	12.4228	12.5771	12.732
20	11.955	12.0988	12.2431
21	11.5074	11.6413	11.7756
22	11.0791	11.2037	11.3286
23	10.6689	10.7848	10.9009
24	10.2762	10.3839	10.4917
25	9.9	10	10.1
26	9.5325	9.6324	9.7324
27	9.1805	9.2802	9.38
28	8.8435	8.9428	9.0423
29	8.5206	8.6195	8.7186
30	8.2113	8.3096	8.4083
31	7.9147	8.0124	8.1105
32	7.6305	7.7275	7.8249
33	7.3579	7.4541	7.5508
34	7.0966	7.1919	7.2878
35	6.8458	6.9403	7.0354
36	6.6052	6.6987	6.7928
37	6.3744	6.4669	6.5601
38	6.1527	6.2442	6.3364
39	5.94	6.0304	6.1216
40	5.7357	5.825	5.9151
41	5.5394	5.6276	5.7166

42	5.3509	5.438	5.5259
43	5.1698	5.2557	5.3425
44	4.9957	5.0804	5.1661
45	4.8283	4.9119	4.9964
46	4.6674	4.7498	4.8331
47	4.5127	4.5939	4.6761
48	4.3639	4.4439	4.5249
49	4.2207	4.2995	4.3793
50	4.0829	4.1605	4.2391
51	3.9504	4.0268	4.1042
52	3.8228	3.898	3.9742
53	3.6999	3.7739	3.849
54	3.5816	3.6544	3.7283
55	3.4677	3.5393	3.612
56	3.358	3.4284	3.5
57	3.2522	3.3215	3.3919
58	3.1504	3.2185	3.2877
59	3.0521	3.1191	3.1872
60	2.9576	3.0234	3.0904
61	2.8663	2.931	2.9969
62	2.7783	2.8419	2.9067
63	2.6934	2.7559	2.8196
64	2.6115	2.6729	2.7355
65	2.5326	2.5929	2.6544
66	2.4563	2.5156	2.5761
67	2.3828	2.441	2.5004
68	2.3118	2.369	2.4274
69	2.2432	2.2994	2.3568
70	2.177	2.2322	2.2886
71	2.1131	2.1673	2.2227
72	2.0513	2.1046	2.159
73	1.9917	2.044	2.0975
74	1.934	1.9854	2.0379
75	1.8783	1.9288	1.9804
76	1.8245	1.874	1.9247
77	1.7724	1.8211	1.8709
78	1.7221	1.7699	1.8188
79	1.6735	1.7204	1.7685
80	1.6264	1.6725	1.7197
81	1.581	1.6262	1.6726
82	1.5369	1.5813	1.6268
83	1.4943	1.5379	1.5826

Resistance vs. temperature table for 10k3435-1

Temp. [°C]	R _{min} (kΩ)	R _{nom.} (kΩ)	R _{max} (kΩ)								
84	1.4531	1.4959	1.5398	124	0.525	0.546	0.5677	166	0.2154	0.226	0.2371
85	1.4132	1.4553	1.4985	125	0.513	0.5336	0.555	167	0.2114	0.2218	0.2327
86	1.3746	1.4159	1.4583	126	0.5014	0.5216	0.5426	168	0.2073	0.2176	0.2284
87	1.3373	1.3778	1.4194	127	0.4899	0.5098	0.5305	169	0.2034	0.2135	0.2241
88	1.301	1.3408	1.3817	128	0.4788	0.4984	0.5187	170	0.1995	0.2095	0.2199
89	1.266	1.3051	1.3453	129	0.4681	0.4873	0.5073	171	0.1958	0.2056	0.2159
90	1.232	1.2704	1.3099	130	0.4576	0.4765	0.4961	172	0.1921	0.2018	0.2119
91	1.1991	1.2368	1.2756	131	0.4474	0.466	0.4853	173	0.1885	0.198	0.208
92	1.1673	1.2043	1.2424	132	0.4375	0.4558	0.4748	174	0.185	0.1944	0.2042
93	1.1365	1.1728	1.2102	133	0.4278	0.4458	0.4645	175	0.1816	0.1908	0.2005
94	1.1065	1.1422	1.1789	134	0.4184	0.4361	0.4545	176	0.1783	0.1874	0.197
95	1.0776	1.1126	1.1487	135	0.4092	0.4266	0.4447	177	0.1749	0.1839	0.1933
96	1.0495	1.0839	1.1193	136	0.4003	0.4174	0.4352	178	0.1718	0.1806	0.1899
97	1.0222	1.056	1.0908	137	0.3916	0.4084	0.4259	179	0.1687	0.1774	0.1865
98	0.9958	1.029	1.0632	138	0.3832	0.3997	0.4169	180	0.1656	0.1742	0.1832
99	0.9702	1.0028	1.0364	139	0.3748	0.3911	0.408	181	0.1626	0.1711	0.18
100	0.9454	0.9774	1.0104	140	0.3668	0.3828	0.3995	182	0.1597	0.168	0.1768
101	0.9213	0.9527	0.9851	141	0.359	0.3747	0.3911	183	0.1568	0.165	0.1736
102	0.8979	0.9288	0.9606	142	0.3514	0.3669	0.383	184	0.154	0.1621	0.1706
103	0.8752	0.9055	0.9368	143	0.344	0.3592	0.3751	185	0.1513	0.1593	0.1677
104	0.8532	0.883	0.9137	144	0.3367	0.3517	0.3673	186	0.1486	0.1565	0.1648
105	0.8318	0.8611	0.8913	145	0.3297	0.3444	0.3598	187	0.146	0.1538	0.162
106	0.8112	0.8399	0.8696	146	0.3227	0.3372	0.3523	188	0.1434	0.1511	0.1591
107	0.7911	0.8193	0.8485	147	0.316	0.3303	0.3452	189	0.141	0.1485	0.1564
108	0.7715	0.7992	0.8278	148	0.3095	0.3235	0.3381	190	0.1385	0.1459	0.1537
109	0.7526	0.7798	0.808	149	0.3031	0.3169	0.3313	191	0.1361	0.1434	0.1511
110	0.7341	0.7609	0.7886	150	0.2968	0.3104	0.3246	192	0.1338	0.141	0.1486
111	0.7162	0.7425	0.7697	151	0.2908	0.3042	0.3182	193	0.1315	0.1386	0.1461
112	0.6989	0.7247	0.7514	152	0.2848	0.298	0.3117	194	0.1292	0.1362	0.1436
113	0.682	0.7074	0.7337	153	0.279	0.292	0.3055	195	0.127	0.1339	0.1412
114	0.6657	0.6906	0.7164	154	0.2734	0.2862	0.2995	196	0.1249	0.1317	0.1389
115	0.6497	0.6742	0.6996	155	0.2679	0.2805	0.2936	197	0.1228	0.1295	0.1366
116	0.6342	0.6583	0.6832	156	0.2625	0.2749	0.2878	198	0.1206	0.1273	0.1343
117	0.6192	0.6429	0.6674	157	0.2573	0.2695	0.2822	199	0.1186	0.1252	0.1321
118	0.6046	0.6278	0.6519	158	0.2522	0.2642	0.2767	200	0.1166	0.1231	0.1299
119	0.5904	0.6132	0.6369	159	0.2472	0.259	0.2713	201	0.1147	0.1211	0.1278
120	0.5765	0.599	0.6223	160	0.2424	0.254	0.2661	202	0.1128	0.1191	0.1257
121	0.5631	0.5852	0.6081	161	0.2376	0.249	0.261	203	0.111	0.1172	0.1238
122	0.5501	0.5718	0.5943	162	0.2329	0.2442	0.256	204	0.1092	0.1153	0.1218
123	0.5374	0.5587	0.5808	163	0.2284	0.2395	0.2511	205	0.1073	0.1134	0.1198
				164	0.224	0.2349	0.2463	206	0.1056	0.1116	0.1179
				165	0.2197	0.2304	0.2416	207	0.1039	0.1098	0.116



Resistance vs. temperature table for 10k3435-1

Temp.	R _{min}	R _{nor.}	R _{max}				
(°C)	(KΩ)	(KΩ)	(KΩ)				
208	0.1022	0.108	0.1141	243	0.0601	0.0639	0.0679
209	0.1006	0.1063	0.1124	244	0.0593	0.063	0.0669
210	0.0989	0.1046	0.1106	245	0.0584	0.0621	0.066
211	0.0973	0.1029	0.1088	246	0.0577	0.0613	0.0651
212	0.0958	0.1013	0.1071	247	0.0569	0.0605	0.0643
213	0.0943	0.0997	0.1054	248	0.0561	0.0596	0.0634
214	0.0928	0.0982	0.1039	249	0.0553	0.0588	0.0625
215	0.0914	0.0967	0.1023	250	0.0545	0.058	0.0617
216	0.09	0.0952	0.1007				
217	0.0885	0.0937	0.0992				
218	0.0871	0.0922	0.0976				
219	0.0858	0.0908	0.0961				
220	0.0845	0.0895	0.0948				
221	0.0832	0.0881	0.0933				
222	0.0819	0.0868	0.0919				
223	0.0807	0.0855	0.0906				
224	0.0795	0.0842	0.0892				
225	0.0782	0.0829	0.0878				
226	0.0771	0.0817	0.0866				
227	0.0759	0.0805	0.0853				
228	0.0748	0.0793	0.0841				
229	0.0737	0.0781	0.0828				
230	0.0726	0.077	0.0816				
231	0.0716	0.0759	0.0805				
232	0.0705	0.0748	0.0793				
233	0.0695	0.0737	0.0782				
234	0.0684	0.0726	0.077				
235	0.0675	0.0716	0.076				
236	0.0665	0.0706	0.0749				
237	0.0655	0.0695	0.0738				
238	0.0646	0.0686	0.0728				
239	0.0637	0.0676	0.0718				
240	0.0627	0.0666	0.0707				
241	0.0619	0.0657	0.0698				
242	0.061	0.0648	0.0688				