



REV	DESCRIPTION	DATE	APP
0	INITIAL RELEASE	02/07/2019	DD
REVISION HISTORY			

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P/N ETP10038	SCALE: NONE	LAYER: 0 OF 2
	REV: 0	DATE: 02/07/2019

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RESISTANCE @ +25°C = 10,000 Ω ± 1%
 RESISTANCE/TEMPERATURE CURVE = "30"
 BETA "β" (+25 TO +85°C) = 3,977°K NOMINAL
 TEMPERATURE COEFFICIENT @ +25°C = -4.39%/°C NOMINAL
 MAXIMUM TEMPERATURE RATING = +105°C

MOISTURE RESISTANT PROBE ASSEMBLY

ROHS COMPLIANT

El Sensor Technologies

Resistance Versus Temperature Table

P/N ETP10038 Revision "0"

Resistance @ +25°C = 10,000 Ω

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C/R@+25°C)	Resistance (Ω Nominal)
-40	-40.0	33.5676	335,676
-39	-38.2	31.4180	314,180
-38	-36.4	29.4194	294,194
-37	-34.6	27.5603	275,603
-36	-32.8	25.8303	258,303
-35	-31.0	24.2196	242,196
-34	-29.2	22.7193	227,193
-33	-27.4	21.3212	213,212
-32	-25.6	20.0177	200,177
-31	-23.8	18.8020	188,020
-30	-22.0	17.6675	176,675
-29	-20.2	16.6084	166,084
-28	-18.4	15.6193	156,193
-27	-16.6	14.6952	146,952
-26	-14.8	13.8314	138,314
-25	-13.0	13.0235	130,235
-24	-11.2	12.2678	122,678
-23	-9.4	11.5605	115,605
-22	-7.6	10.8983	108,983
-21	-5.8	10.2780	102,780
-20	-4.0	9.6967	96,967
-19	-2.2	9.1518	91,518
-18	-0.4	8.6408	86,408
-17	1.4	8.1614	81,614
-16	3.2	7.7115	77,115
-15	5.0	7.2890	72,890

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
-14	6.8	6.8922	68,922
-13	8.6	6.5194	65,194
-12	10.4	6.1689	61,689
-11	12.2	5.8394	58,394
-10	14.0	5.5294	55,294
-9	15.8	5.2377	52,377
-8	17.6	4.9631	49,631
-7	19.4	4.7045	47,045
-6	21.2	4.4609	44,609
-5	23.0	4.2313	42,313
-4	24.8	4.0149	40,149
-3	26.6	3.8108	38,108
-2	28.4	3.6183	36,183
-1	30.2	3.4366	34,366
0	32.0	3.2651	32,651
1	33.8	3.1031	31,031
2	35.6	2.9501	29,501
3	37.4	2.8055	28,055
4	39.2	2.6688	26,688
5	41.0	2.5396	25,396
6	42.8	2.4173	24,173
7	44.6	2.3017	23,017
8	46.4	2.1922	21,922
9	48.2	2.0885	20,885
10	50.0	1.9904	19,904
11	51.8	1.8974	18,974
12	53.6	1.8093	18,093
13	55.4	1.7257	17,257
14	57.2	1.6465	16,465
15	59.0	1.5714	15,714
16	60.8	1.5001	15,001
17	62.6	1.4325	14,325
18	64.4	1.3683	13,683
19	66.2	1.3073	13,073
20	68.0	1.2494	12,494
21	69.8	1.1943	11,943
22	71.6	1.1420	11,420
23	73.4	1.0923	10,923
24	75.2	1.0450	10,450
25	77.0	1.0000	10,000

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
26	78.8	0.95720	9,572.0
27	80.6	0.91647	9,164.7
28	82.4	0.87769	8,776.9
29	84.2	0.84077	8,407.7
30	86.0	0.80560	8,056.0
31	87.8	0.77209	7,720.9
32	89.6	0.74016	7,401.6
33	91.4	0.70972	7,097.2
34	93.2	0.68069	6,806.9
35	95.0	0.65302	6,530.2
36	96.8	0.62661	6,266.1
37	98.6	0.60141	6,014.1
38	100.4	0.57737	5,773.7
39	102.2	0.55441	5,544.1
40	104.0	0.53249	5,324.9
41	105.8	0.51155	5,115.5
42	107.6	0.49155	4,915.5
43	109.4	0.47243	4,724.3
44	111.2	0.45416	4,541.6
45	113.0	0.43669	4,366.9
46	114.8	0.41999	4,199.9
47	116.6	0.40401	4,040.1
48	118.4	0.38873	3,887.3
49	120.2	0.37410	3,741.0
50	122.0	0.36010	3,601.0
51	123.8	0.34670	3,467.0
52	125.6	0.33386	3,338.6
53	127.4	0.32157	3,215.7
54	129.2	0.30979	3,097.9
55	131.0	0.29851	2,985.1
56	132.8	0.28770	2,877.0
57	134.6	0.27733	2,773.3
58	136.4	0.26739	2,673.9
59	138.2	0.25786	2,578.6
60	140.0	0.24871	2,487.1
61	141.8	0.23994	2,399.4
62	143.6	0.23152	2,315.2
63	145.4	0.22344	2,234.4
64	147.2	0.21568	2,156.8
65	149.0	0.20823	2,082.3

Temperature (°C)	Temperature (°F)	Resistance Ratio (R@x°C / R@+25°C)	Resistance (Ω Nominal)
66	150.8	0.20108	2,010.8
67	152.6	0.19421	1,942.1
68	154.4	0.18761	1,876.1
69	156.2	0.18126	1,812.6
70	158.0	0.17516	1,751.6
71	159.8	0.16930	1,693.0
72	161.6	0.16366	1,636.6
73	163.4	0.15824	1,582.4
74	165.2	0.15303	1,530.3
75	167.0	0.14801	1,480.1
76	168.8	0.14320	1,432.0
77	170.6	0.13856	1,385.6
78	172.4	0.13410	1,341.0
79	174.2	0.12980	1,298.0
80	176.0	0.12566	1,256.6
81	177.8	0.12167	1,216.7
82	179.6	0.11783	1,178.3
83	181.4	0.11412	1,141.2
84	183.2	0.11055	1,105.5
85	185.0	0.10711	1,071.1
86	186.8	0.10379	1,037.9
87	188.6	0.10059	1,005.9
88	190.4	0.097500	975.00
89	192.2	0.094522	945.22
90	194.0	0.091648	916.48
91	195.8	0.088876	888.76
92	197.6	0.086200	862.00
93	199.4	0.083618	836.18
94	201.2	0.081125	811.25
95	203.0	0.078718	787.18
96	204.8	0.076394	763.94
97	206.6	0.074150	741.50
98	208.4	0.071982	719.82
99	210.2	0.069888	698.88
100	212.0	0.067865	678.65
101	213.8	0.065910	659.10
102	215.6	0.064021	640.21
103	217.4	0.062194	621.94
104	219.2	0.060429	604.29
105	221.0	0.058722	587.22