

- **Robust, compact design**
- **Fits large range of pipe sizes**
- **Fast response time (typically 5 seconds)**
- **RoHS Compliant**

The ETP-PC-100-G10K3435A1 temperature probe has been designed as a flexible measurement solution for pipe clamp applications. The probe is well suited to applications where a compact and flexible high-reliability pipe surface temperature measurement is required. The hermetically sealed glass NTC temperature sensing element is encapsulated in a copper housing and overmoulded to expose the contact

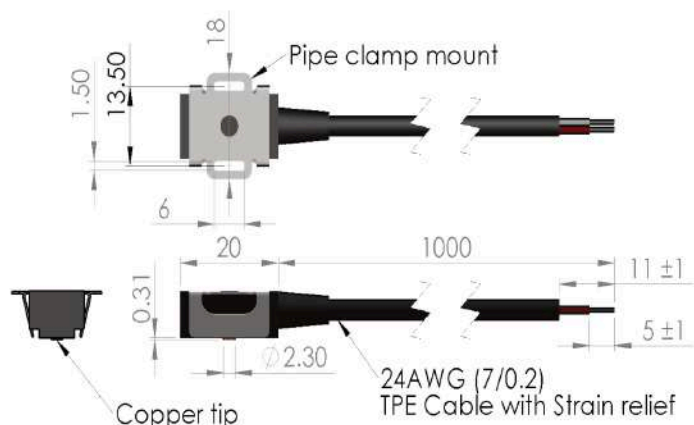
area. A metal clip with a stainless steel cable-tie allows the probe to be firmly secured.

The sensor is particularly suitable for demanding temperature monitoring applications on vehicles but with its fast response time and wide environmental temperature range, it is equally well-equipped for measurement of liquids and gases used in medical equipment, test machinery, industrial instrumentation and process control systems.

Specifications

Element:	NTC G10K3435A1
Resistance at +25°C	10 kΩ
Tolerance from +25°C to +85°C	±1°C
Beta Value 25/85	3435K
Tolerance on Beta Value	±2%
Temperature range	-40°C to +125°C

Wiring and Dimension



Order information

Order - number: ETP_PC-100-G10K3435A1 (93685)



Resistance vs. temperature table for 10K3435A1

Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ	Temp. °C	KΩ
-40	186	2	25.11	44	5.061	86	1.39
-39	176.4	3	24.07	45	4.891	87	1.352
-38	167.4	4	23.07	46	4.729	88	1.315
-37	158.8	5	22.13	47	4.572	89	1.28
-36	150.7	6	21.22	48	4.421	90	1.245
-35	143.1	7	20.36	49	4.276	91	1.212
-34	135.9	8	19.53	50	4.137	92	1.18
-33	129.1	9	18.75	51	4.003	93	1.149
-32	122.7	10	18	52	3.873	94	1.118
-31	116.6	11	17.28	53	3.749	95	1.089
-30	110.8	12	16.6	54	3.629	96	1.06
-29	105.4	13	15.94	55	3.513	97	1.033
-28	100.2	14	15.32	56	3.402	98	1.006
-27	95.37	15	14.72	57	3.295	99	0.9801
-26	90.76	16	14.15	58	3.192	100	0.9549
-25	86.39	17	13.6	59	3.092	101	0.9305
-24	82.26	18	13.08	60	2.996	102	0.9069
-23	78.35	19	12.58	61	2.903	103	0.8839
-22	74.64	20	12.1	62	2.814	104	0.8616
-21	71.12	21	11.64	63	2.728	105	0.84
-20	67.79	22	11.21	64	2.645	106	0.819
-19	64.63	23	10.79	65	2.565	107	0.7987
-18	61.64	24	10.38	66	2.487	108	0.7789
-17	58.79	25	10	67	2.413	109	0.7597
-16	56.1	26	9.631	68	2.341	110	0.7411
-15	53.53	27	9.278	69	2.271	111	0.723
-14	51.1	28	8.94	70	2.204	112	0.7054
-13	48.8	29	8.615	71	2.139	113	0.6883
-12	46.6	30	8.304	72	2.076	114	0.6718
-11	44.52	31	8.006	73	2.016	115	0.6556
-10	42.54	32	7.72	74	1.957	116	0.64
-9	40.66	33	7.445	75	1.901	117	0.6248
-8	38.87	34	7.182	76	1.846	118	0.61
-7	37.17	35	6.929	77	1.794	119	0.5956
-6	35.55	36	6.687	78	1.743	120	0.5817
-5	34.01	37	6.454	79	1.693	121	0.5681
-4	32.55	38	6.23	80	1.645	122	0.5549
-3	31.15	39	6.015	81	1.599	123	0.542
-2	29.82	40	5.809	82	1.555	124	0.5295
-1	28.56	41	5.611	83	1.511	125	0.5174
0	27.35	42	5.42	84	1.47		
1	26.2	43	5.237	85	1.429		