



- Robust, Compact Design
- Improved Overall Reliability
- Resistant to Urea
- Integrated Connector

DESCRIPTION

This assembly consists of a NTC thermistor welded to gold plated brass pins. The sensor is over-molded together using GF30% Nylon to give a high degree of protection against water/moisture ingress. The molded unit has an integrated Molex style connector and o-ring to provide a water tight seal during assembly.

This Urea Temperature Probe with integrated connector is used to measure the temperature of the urea liquid used in Selective Catalytic Reduction (SCR) systems. This is an integral part of NOx emission control and compliance strategy with SCR systems. This exhaust after-treatment method is used with diesel engines to reduce NOx emissions. The SCR system relies on the injection of an aqueous urea solution into the exhaust stream in order to facilitate the reduction of NOx emissions. This sensor is also suitable for other immersion applications.

FEATURES

- Suitable for measuring the temperature of urea liquid used in the Selective Catalytic Reduction (SCR) systems
- Standard style connector
- Custom tolerances available upon request
- Available in a range of R/T curves
- Operating temperature range: -20°C to +125°C
- Capable of withstanding high pressures

APPLICATIONS

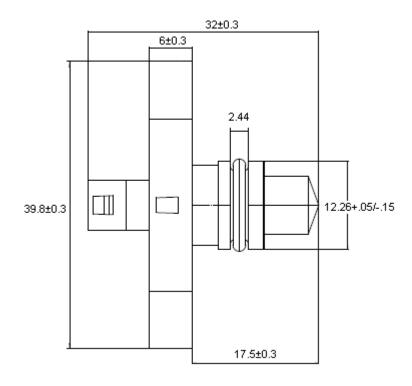
- Temperature measurement of urea liquid used in the Selective Catalytic Reduction (SCR) systems
- Closed loop pressurized systems
- Water tank applications



PERFORMANCE SPECIFICATIONS

Parameters	Units	Value
Nominal Resistance at +25°C	Ohms	10000
Tolerance from +25°C to +85°C	°C	±1
Beta Value 25/85	K	3976
Tolerance on Beta Value	%	±1
Time response in still water (T63%)	Seconds	<40

DIMENSIONS





RESISTANCE V TEMPERATURE TABLE

Temp. °C	Ohms	
-40	336098	
-39	314553	
-38	294524	
-37	275897	
-36	258563	
-35	242427	
-34	227398	
-33	213394	
-32	200339	
-31	188163	
-30	176803	
-29	166198	
-28	156294	
-27	147042	
-26	138393	
-25	130306	
-24	122741	
-23	115661	
-22	109032	
-21	102824	
-20	97006	
-19	91553	
-18	86439	
-17	81641	
-16	77138	
-15	72911	
-14	68940	
-13	65209	
-12	61703	
-11	58405	
-10	55304	
-9	52385	
-8	49638	
-7	47050	
-6	44613	
-5	42317	
-4	40151	
-3	38110	
-2	36184	
-1	34366	
0	32651	
1	31031	

Temp. °C	Ohms	
	T 1	
2	29500	
3	28054	
4	26687	
5	25395	
6	24172	
7	23016	
8	21921	
9	20885	
10	19903	
11	18973	
12	18092	
13	17257	
14	16465	
15	15714	
16	15001	
17	14324	
18	13682	
19	13073	
20	12493	
21	11943	
22	11420	
23	10923	
24	10450	
25	10000	
26	9572	
27	9165	
28	8777	
29	8408	
30	8056	
31	7721	
32	7402	
33	7097	
34	6807	
35	6530	
36	6266	
37	6014	
38	5774	
39	5544	
40	5325	
41	5116	
42	4916	
43	4724	

Temp. °C	Ohms	
44	4542	
45	4367	
46	4200	
47	4040	
48	3887	
49	3741	
50	3601	
51	3467	
52	3339	
53	3216	
54	3098	
55 56	2985 2877	
57	2773	
58	2674	
59	2579	
60	2487	
61	2399	
62	2315	
63	2234	
64	2157	
65	2082	
66	2011	
67	1942	
68	1876	
69	1813	
70	1752	
71	1693	
72	1637	
73	1582	
74 75	1530 1480	
76	1432 1385	
77 78	1341	
79	1298	
80	1256	
81	1216	
82 83	1178 1141	
84	1105	
85	1070	

Temp. °C	Ohms	
86	1037	
87	1005	
88	974	
89	945	
90	916	
91	888	
92	862	
93	836	
94	811	
95	787	
96	764	
97	741	
98	720	
99	699	
100	678	
101	659	
102	640	
103	622	
104	604	
105	587	
106	571	
107	555	
108	539	
109	524	
110	510	
111	496	
112	482	
113	469	
114	457	
115	444	
116	432	
117	421	
118	410	
119	399	
120	388	
121	378	
122	368	
123	359	
124	350	
125	341	



ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3D1215	Urea Temperature Probe with Integrated Connector	10000	10000*

^{*} For quantities less than Minimum Order Quantity – contact distribution

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