



FEATURES

- Fixed depth immersion probe
- Custom temperature tolerances available.
- Available in a range of R/T curves.
- Various lead length/lead type available
- Flexible design dimensions to accommodate customer requirements
- Temperature range -40 °C to +105°C

APPLICATIONS

- Air duct sensor
- Ambient temp sensor

FLANGE MOUNTED STAINLESS STEEL PROBE

SPECIFICATIONS

- NTC Temperature Sensor
- Fixed depth immersion probe
- Various lead lengths available
- Various SS tube lengths available.
- Various Flange mount sizes available
- RoHS Compliant

NTC Thermistor bead is soldered to extension wires. Unit is potted in a Mylar tube. The device is potted in a Stainless steel housing using Black Stycast epoxy.

FLANGE MOUNTED STAINLESS STEEL PROBE

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +25°C	Ohms	10,000
Resistance tolerance from 0°C to +70°C	°C	± 1.0
Beta Value 25/85	K	3976
Tolerance on Beta Value 25/85	%	± 0.5
Time response in Liquids	Seconds	<5

MECHANICAL DETAILS

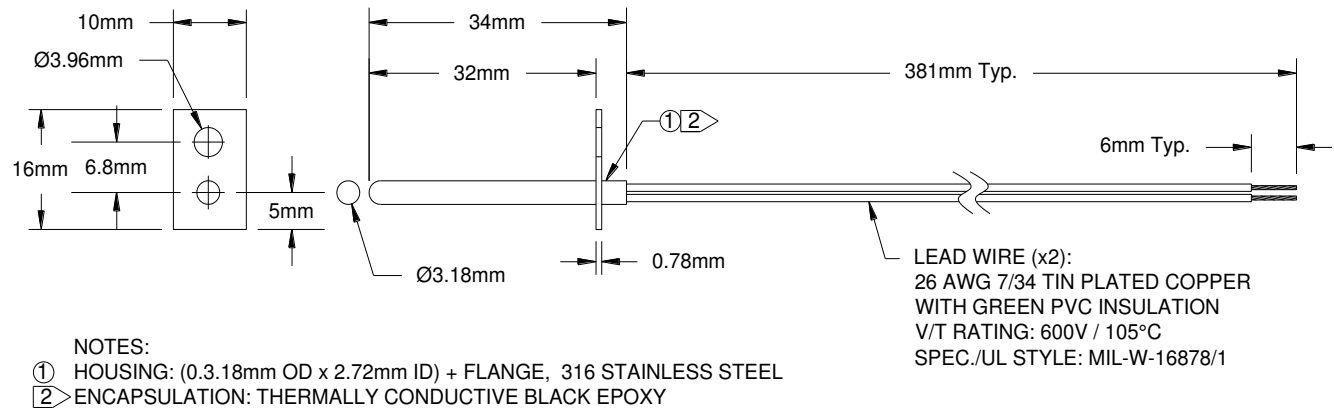


Figure 1: Flange Mounted Stainless Steel Probe

FLANGE MOUNTED STAINLESS STEEL PROBE

RESISTANCE V TEMPERATURE TABLE

Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms
-40	336103.2	-4	40151.6	32	7401.7	68	1876.0
-39	314558.0	-3	38110.0	33	7097.3	69	1812.6
-38	294529.1	-2	36184.0	34	6807.1	70	1751.6
-37	275900.8	-1	34366.6	35	6530.3	71	1693.0
-36	258567.0	0	32650.9	36	6266.2	72	1636.6
-35	242430.2	1	31030.8	37	6014.3	73	1582.4
-34	227400.9	2	29500.5	38	5773.8	74	1530.2
-33	213396.6	3	28054.4	39	5544.2	75	1480.1
-32	200341.4	4	26687.5	40	5325.0	76	1431.8
-31	188165.5	5	25395.0	41	5115.6	77	1385.3
-30	176804.8	6	24172.5	42	4915.6	78	1340.6
-29	166199.8	7	23015.9	43	4724.4	79	1297.5
-28	156296.1	8	21921.2	44	4541.7	80	1256.1
-27	147043.2	9	20884.7	45	4367.0	81	1216.1
-26	138394.7	10	19903.2	46	4200.0	82	1177.7
-25	130307.6	11	18973.3	47	4040.2	83	1140.6
-24	122742.3	12	18092.2	48	3887.4	84	1104.9
-23	115662.2	13	17256.9	49	3741.1	85	1070.5
-22	109033.4	14	16464.9	50	3601.1	86	1037.3
-21	102824.6	15	15713.7	51	3467.0	87	1005.3
-20	97006.9	16	15000.9	52	3338.7	88	974.4
-19	91553.3	17	14324.5	53	3215.8	89	944.7
-18	86439.2	18	13682.3	54	3098.0	90	916.0
-17	81641.4	19	13072.6	55	2985.2	91	888.3
-16	77138.6	20	12493.3	56	2877.0	92	861.5
-15	72911.1	21	11943.0	57	2773.3	93	835.8
-14	68940.4	22	11419.9	58	2673.9	94	810.9
-13	65209.7	23	10922.7	59	2578.6	95	786.8
-12	61702.9	24	10449.8	60	2487.1	96	763.6
-11	58405.5	25	10000.0	61	2399.4	97	741.2
-10	55303.9	26	9572.0	62	2315.2	98	719.6
-9	52385.2	27	9164.7	63	2234.4	99	698.6
-8	49637.8	28	8777.0	64	2156.8	100	678.4
-7	47050.6	29	8407.7	65	2082.3	101	658.9
-6	44613.4	30	8056.1	66	2010.8	102	640.0
-5	42316.7	31	7721.0	67	1942.1	103	621.8
						104	604.2
						105	587.1

FLANGE MOUNTED STAINLESS STEEL PROBE

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3D536	Flange Mounted Stainless Steel Probe	10,000	1000 *

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