

High Temp Immersion Probe



- Precision remote temperature sensing
- Highly stable precision thermistors
- Robust design
- Suitable for applications where sensor is exposed to temperatures up to 300°C
- Available in a variety of thread and connector types
- RoHs Compliant

DESCRIPTION

This assembly consists of a NTC thermistor mounted in Stainless Steel screw-in housing. The sensing element is sealed with a ceramic compound. Device is available in a variety of thread and connector types.

FEATURES

- Suitable for use in high temperature applications
- Pipe threaded probes provide excellent seal
- Custom tolerances available on request
- Available in a variety of thread and connector types
- Available in range of R/T curves
- Temperature range -40 °C to +300°C

APPLICATIONS

- Domestic hot water generators
- Building automation systems
- Compact heat exchangers
- Closed loop pressurized systems
- Water tank applications

PERFORMANCE SPECS

Parameters	Units	Value
Resistance @ +200°C	Ohms	8,000
Tolerance @ +200°C	%	± 5
Beta Value 150/250	K	5300
Tolerance on Beta Value	%	± 5
Time response in still water	Seconds	<12.5

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MECHANICAL DETAILS

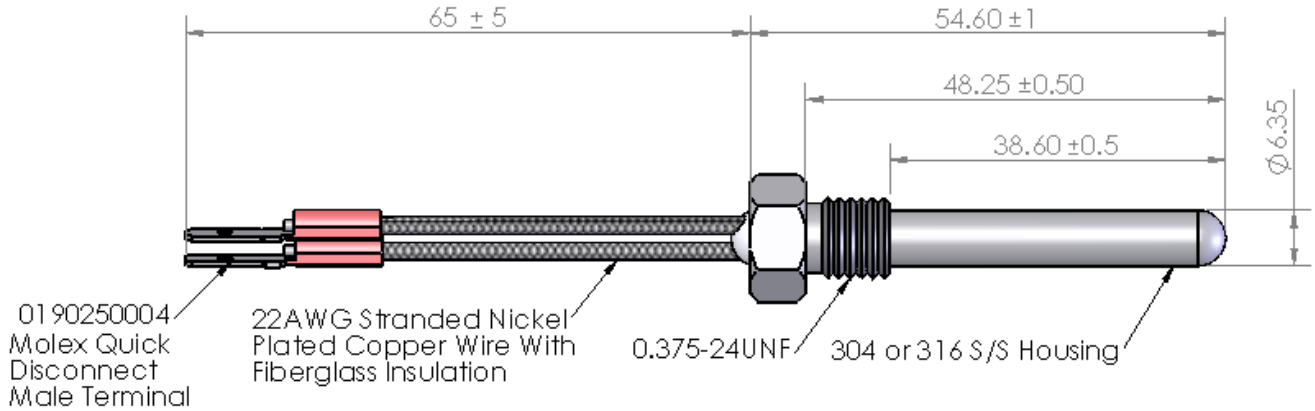


Figure 1: Immersion probe – mechanical drawing

RESISTANCE V TEMPERATURE TABLE

Temp. °C	K Ohms	Temp. °C	K Ohms	Temp. °C	K Ohms	Temp. °C	K Ohms
-40	199,959	50	1,097	140	39.81	230	4.077
-35	138,733	55	878.3	145	34.3	235	3.669
-30	97,340	60	706.8	150	29.65	240	3.309
-25	69,031	65	571.8	155	25.7	245	2.989
-20	49,459	70	464.8	160	22.34	250	2.705
-15	35,783	75	379.7	165	19.47	255	2.453
-10	26,131	80	311.6	170	17.02	260	2.228
-5	19,254	85	256.9	175	14.92	265	2.026
0	14,308	90	212.7	180	13.1	270	1.846
5	10,720	95	176.9	185	11.54	275	1.685
10	8,096	100	147.7	190	10.19	280	1.54
15	6,160	105	123.8	195	9.019	285	1.41
20	4,721	110	104.2	200	8	290	1.293
25	3,643	115	87.97	205	7.112	295	1.187
30	2,830	120	74.56	210	6.337	300	1.092
35	2,213	125	53.42	215	5.658		
40	1,741	130	54.1	220	5.062		
45	1,378	135	46.35	225	4.538		

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ORDERING INFORMATION

Part Number	Description	Ω @200°C	MOQ
G3.3M8D4	Immersion Probe	8,000	1000*

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