



BOILER PROBE WITH INTEGRATED CONNECTOR

SPECIFICATIONS

- Robust, compact design
- Improved overall reliability
- Fast response time
- Integrated connector
- RoHS Compliant

FEATURES

- Suitable for measuring water temperature in various boiler systems
- Standard industry style connector
- Available in a variety of thread types
- Custom tolerances available on request
- Available in range of R/T curves
- Temperature range -40°C to +125°C
- Other RTD elements available (Platinum, Nickel)

APPLICATIONS

- Temperature measurement of water in Hot Water Boiler systems
- Industrial process control
- Boiler control

This assembly consists of a NTC thermistor soldered to an industry std 2.5mm connector. The sensor is assembled into a Brass screw in Housing. Device is available in a variety of thread types.

PERFORMANCE SPECS

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	Seconds	<8

MECHANICAL DETAILS

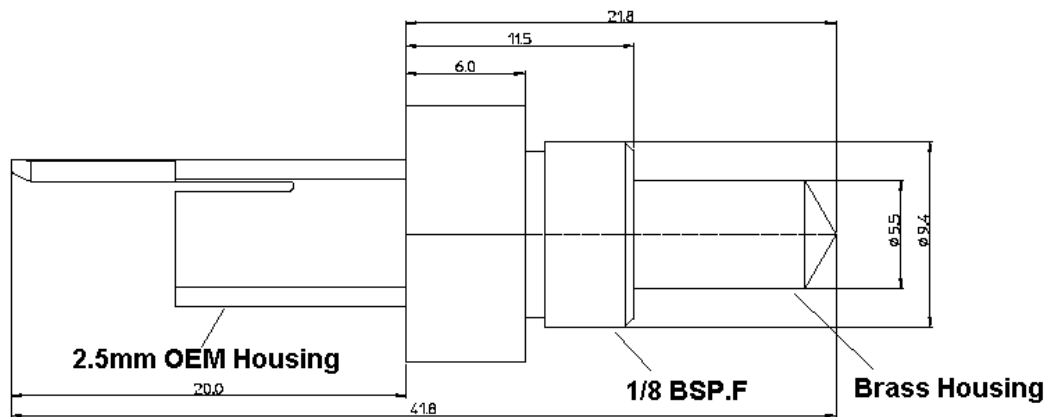


Figure 1: Boiler probe integrated connector – mechanical drawing

RESISTANCE V TEMPERATURE TABLE

Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms	Temp °C	Ohms
-40	336098	2	29500	44	4542	86	1037
-39	314553	3	28054	45	4367	87	1005
-38	294524	4	26687	46	4200	88	974
-37	275897	5	25395	47	4040	89	945
-36	258563	6	24172	48	3887	90	916
-35	242427	7	23016	49	3741	91	888
-34	227398	8	21921	50	3601	92	862
-33	213394	9	20885	51	3467	93	836
-32	200339	10	19903	52	3339	94	811
-31	188163	11	18973	53	3216	95	787
-30	176803	12	18092	54	3098	96	764
-29	166198	13	17257	55	2985	97	741
-28	156294	14	16465	56	2877	98	720
-27	147042	15	15714	57	2773	99	699
-26	138393	16	15001	58	2674	100	678
-25	130306	17	14324	59	2579	101	659
-24	122741	18	13682	60	2487	102	640
-23	115661	19	13073	61	2399	103	622
-22	109032	20	12493	62	2315	104	604
-21	102824	21	11943	63	2234	105	587
-20	97006	22	11420	64	2157	106	571
-19	91553	23	10923	65	2082	107	555
-18	86439	24	10450	66	2011	108	539
-17	81641	25	10000	67	1942	109	524
-16	77138	26	9572	68	1876	110	510
-15	72911	27	9165	69	1813	111	496
-14	68940	28	8777	70	1752	112	482
-13	65209	29	8408	71	1693	113	469
-12	61703	30	8056	72	1637	114	457
-11	58405	31	7721	73	1582	115	444
-10	55304	32	7402	74	1530	116	432
-9	52385	33	7097	75	1480	117	421
-8	49638	34	6807	76	1432	118	410
-7	47050	35	6530	77	1385	119	399
-6	44613	36	6266	78	1341	120	388
-5	42317	37	6014	79	1298	121	378
-4	40151	38	5774	80	1256	122	368
-3	38110	39	5544	81	1216	123	359
-2	36184	40	5325	82	1178	124	350
-1	34366	41	5116	83	1141	125	341
0	32651	42	4916	84	1105		
1	31031	43	4724	85	1070		

ORDERING INFORMATION

Part Number	Description	Ω @25°C	MOQ
10K3D1037	Immersion Probe with Integrated Connector	10000	10000*

* For quantities less than Minimum Order Quantity – Contact Distribution

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