

## IMMERSION MINI

Immersion temperature sensor in  
NEMA 3 / IP54 plastic enclosure

### FEATURES

- Durable NEMA 3/IP 54 injection-molded enclosure
- Quick Snap Cover
- Available in standard 2" / 4" / 6" lengths
- Complete with compression fit 1/2" NPT brass or stainless steel immersion well
- Option for brass compression adapter (1/2" or 1/4" NPT)
- Includes conveniently packaged syringe of thermal paste
- Optional 1/2" conduit adapter for wiring
- Quick Connect wire terminals
- AISI 316 stainless steel temperature probe
- NTC thermistors or RTD elements available
- CE & RoHS compliant
- 5 Year Limited Warranty
- Made in the USA



### GENERAL INFORMATION

The Tasseron Immersion Mini Temperature Sensor provides a high quality solution for both commercial and industrial application. The Mini housing offers weatherproof NEMA 3 / IP54 ratings and is produced with injection-molded UV resistant ABS material (cover), durable injection-molded glass filled nylon (flange), and stainless steel AISI 316 probe.

The available measuring elements interface with most major control manufacturers. Accurate thermistors and RTDs ensure low drift and are double encapsulated to guarantee the highest reliability in the field. The Quick Snap cover and Quick Connect wire terminals make installation easy and reduces installation costs.

The sensor comes with a compression-fit 1/2" NPT Brass (machined) or Stainless Steel (fabricated) immersion well and a syringe of thermal paste for improved conductivity and fast application. For existing or 3rd party thermowells, the immersion series can be equipped with 1/2" NPT or 1/4" NPT brass compression adapters.

### SPECIFICATIONS on pg. 2



## ORDERING INFORMATION

# HOW TO BUILD A TASSERON IMMERSION MINI PART NUMBER

Sample Part Number (THTIPA4B) —Immersion Mini sensor with 10k Type 2 element, 4" probe and a brass thermowell. Also comes with a syringe of thermal paste.

T	H	T	I	P	A	4B
Tasseron	HVAC	Temp	Immersion	Mini	Element	Details
					A—10K -2	2A—2" probe, 1/2" NPT adapter
					B—10K -3	
					C—20K	
					D—3K	2Q—2" probe, 1/4" NPT adapter
					E—Pt1000	
					F—Ni1000-891	
					G—10K-4	2B—2" probe, brass thermowell
				*Other elements available on request	H— Pt100	
					I—4.7K	
					J—10K-3 (11K)	2S—2" probe, SS thermowell
					K— Ni1000-TC5	
						4A—4" probe, 1/2" NPT adapter
						4Q—4" probe, 1/4" NPT adapter
						4B—4" probe, brass thermowell
						4S—4" probe, SS thermowell
						6A—6" probe, 1/2" NPT adapter
						6Q—6" probe, 1/4" NPT adapter
						6B—6" probe, brass thermowell
						6S—6" probe, SS thermowell

### NOTE:

Immersion sensors with lengths other than 2", 4", 6" are available with third party provided well.

Additional immersion sensors with a 1/2" or 1/4" NPT compression adapter are available in 6", 8" or 12" lengths.

Other threading options available on request.

# HVAC temperature measuring elements

## R/T TABLES

Temp		NTC thermistors					RTD elements			
		curve A	curve B	curve G	curve C	curve D	curve E	curve F	curve H	curve K
		NTC 10K type 2	NTC 10K type 3	NTC 10K type 4	NTC 20KOhm	NTC 3KOhm	Pt1000/B	Ni1000-891	Pt100/B	Ni1000-TC5
°C	°F	R (kOhm)	R (kOhm)	R (kOhm)	R (kOhm)	R (kOhm)	R (Ohm)	R (Ohm)	R (Ohm)	R (Ohm)
-40	-40	341.4	242.1	191.9	784.6	97.40	843	697	84.3	831
-35	-31	246.2	181.0	146.6	558.8	71.53	862	719	86.2	851
-30	-22	179.5	136.6	112.9	402.7	52.80	882	743	88.2	872
-25	-13	132.2	103.9	87.59	293.6	39.16	902	766	90.2	893
-20	-4	98.34	79.64	68.47	216.3	29.24	922	790	92.2	914
-15	5	73.73	61.54	53.91	160.7	22.04	941	815	94.1	935
-10	14	55.78	47.91	42.74	120.5	16.74	961	839	96.1	956
-5	23	42.59	37.57	34.11	91.07	12.79	980	864	98.0	978
0	32	32.82	29.66	27.40	69.40	9.856	1000	891	100.0	1000
5	41	25.52	23.57	22.14	53.33	7.663	1020	916	102.0	1022
10	50	19.97	18.85	17.99	41.28	5.999	1039	942	103.9	1045
15	59	15.75	15.17	14.72	32.18	4.729	1058	968	105.8	1068
20	68	12.51	12.28	12.09	25.28	3.754	1078	994	107.8	1091
25	77	10.00	10.00	10.00	20.00	3.000	1097	1021	109.7	1114
30	86	8.048	8.184	8.308	15.92	2.416	1117	1048	111.7	1138
35	95	6.516	6.735	6.936	12.75	1.957	1136	1075	113.6	1162
40	104	5.306	5.577	5.819	10.27	1.595	1155	1102	115.5	1186
45	113	4.345	4.641	4.904	8.320	1.307	1175	1130	117.5	1210
50	122	3.578	3.877	4.151	6.779	1.076	1194	1158	119.4	1235
55	131	2.962	3.261	3.529	5.556	0.888	1213	1187	121.3	1260
60	140	2.464	2.756	3.012	4.577	0.737	1232	1216	123.2	1285
65	149	2.060	2.340	2.582	3.788	0.616	1252	1245	125.2	1311
70	158	1.730	1.996	2.221	3.150	0.518	1271	1274	127.1	1337
75	167	1.460	1.707	1.918	2.630	0.441	1290	1304	129.0	1364
80	176	1.236	1.466	1.663	2.206	0.377	1309	1334	130.9	1390
85	185	1.051	1.264	1.446	1.857	0.324	1328	1365	132.8	1417
90	194	0.896	1.095	1.262	1.570	0.278	1347	1396	134.7	1444
95	203	0.767	0.952	1.105	1.333	0.239	1366	1427	136.6	1472
100	212	0.659	0.831	0.970	1.136	0.206	1385	1459	138.5	1500
105	221	0.569	0.728	0.855	0.972	0.179	1404	1491	140.4	1528
110	230	0.493	0.640	0.755	0.834	0.156	1423	1524	142.3	1557
115	239	0.428	0.564	0.669	0.719	0.136	1442	1556	144.2	1586
120	248	0.374	0.499	0.594	0.621	0.119	1461	1590	146.1	1615
125	257	0.327	0.443	0.529	0.539	0.105	1479	1623	147.9	1645

\* Other elements on request

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