

Features and Benefits

- Anti-ligature & tamperproof
- Wide range of sensing element types
- White plastic or stainless steel finishes
- Discreet temperature measurement

Technical Overview

The TT-512 range of low profile button temperature sensors are used for measuring air temperature in indoor space where style or a robust solution is required. Their discreet appearance offers reliable temperature monitoring without being obtrusive.

These sensors are particularly effective in applications where anti-ligature sensors are required for the safety of the building occupants. Due to the robust design and materials, the sensors are also tamperproof.

They are available in either white plastic or stainless steel finishes and contain either a high quality Thermistor, Platinum or Nickel sensing element. Sensor types compatible with most controls manufacturers' equipment are available.

Product Codes

TT-512-SS

Stainless steel anti-ligature sensor lug, 2m cable

TT-512-WP

White plastic anti-ligature sensor lug, 2m cable

Sensing Element (add type to above code)

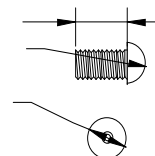
- A (10K3A1) Trend, Cylon, Distech Heatmiser
- B (10K4A1) Andover, Delta Controls
- C (20K6A1) Honeywell
- D (PT100a) Serck
- E (PT1000a) Cylon
- F (NI1000a) Sauter
- G (Ni1000a/TCR(LAN1)) Siemens
- L (TAC1) TAC
- M (2.2K3A1) Johnson Controls
- N (3K3A1) Alerton
- P (30K6A1) Drayton
- Q (50K6A1)
- Z (10K NTC) Carel

Suffix (add to part code)

- 5M 5m cable length

Specification

Output type	Resistive
Accuracy:	
Thermistor	±0.2°C 0 to 70°C
PT100a	±0.2°C @ 25°C
PT1000a	±0.2°C @ 25°C
NI1000	±0.4°C @ 0°C
Material	White plastic or stainless steel
Dimensions:	
11.5mm	
R4.5mm	
Ø9mm	
Fixing	M6 (nut & washer supplied)
Mounting	Flush, to standard UK wall box
Protection	IP20
Environmental:	
Housing:	-10 to +60°C
	0 to 95% non-condensing
Media:	-10 to +60°C
Weight	8g
Country of origin	UK



WEEE Directive:



At the end of the products useful life please dispose as per the local regulations.
Do not dispose of with normal household waste.
Do not burn.

Temperature vs Resistance Charts

	A 10K3A1	B 10K4A1	C 20K6A1	D PT100A	E PT1000A	F NI1000	G LAN1	L TAC1	M 2.2K3A1	N 3K3A1	P 30K6A1	Q 50K6A1	Z 10K NTC
°C	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω	Ω
-50	6678528	441667	-	80.3	803	743	790.8	-	150395	200348	2497k	4168k	-
-40	335671	239831	-	84.3	843	791	826.8	-	75593	100701	1219k	2033k	-
-30	176683	135233	-	88.2	882	842	871.7	-	39789	53005	622911	1038k	-
-20	96974	78930	-	92.2	921	893	913.4	-	21839	29092	331876	553243	-
-15	72895	61030	-	-	-	-	934.7	-	16416	21868	24785	409689	-
-10	55298	47549	-	96.1	961	946	856.2	-	12453	16589	183697	306183	42218
-5	42314	37316	-	-	-	-	978.0	-	9529	12694	138502	230842	33784
0	32650	29490	70204	100.0	1000	1000	1000.0	5085	7353	9795	105305	175508	27197
1	31030	28157	66525	-	-	-	1004.4	-	6988	9309	99787	166310	-
2	29500	26891	63059	-	-	-	1008.9	-	6643	8850	94588	157644	-
3	28054	25689	59793	-	-	-	1013.3	-	6318	8416	89689	149480	-
4	26688	24547	56713	-	-	-	1017.8	-	6010	8006	85069	141779	-
5	25396	23462	53809	-	-	-	1022.3	4078	5719	7619	60713	134521	22023
6	24173	22430	51070	-	-	-	1026.7	-	5444	7252	76604	127669	-
7	23016	21450	48484	-	-	-	1031.2	-	5183	6905	72726	121207	-
8	21921	20517	46044	-	-	-	1035.8	-	4937	6577	69064	115105	-
9	20885	19631	43739	-	-	-	1040.3	-	4703	6266	65608	109344	-
10	19904	18787	41563	103.9	1039	1056	1044.8	3294	4482	5971	62347	103903	17933
11	18974	17983	39506	-	-	-	1049.3	-	4273	5692	59257	98761	-
12	18092	17219	37562	-	-	-	1053.9	-	4075	5428	56346	93901	-
13	17257	16490	35724	-	-	-	1058.4	-	3886	5177	53585	89307	-
14	16465	15797	33986	-	-	-	1063.0	-	3708	4940	50978	84962	-
15	15714	15136	32342	-	-	-	1067.6	2676	3539	4714	45811	80851	14684
16	15001	14507	30786	-	-	-	1072.2	-	3378	4500	46178	76961	-
17	14325	13906	29213	-	-	-	1076.8	-	3226	4297	43969	73280	-
18	13623	13334	27918	-	-	-	1081.4	-	3081	4105	41877	69794	-
19	13053	12788	26598	-	-	-	1086.0	-	2940	3916	39895	66492	-
20	12494	12268	25346	107.8	1078	1112	1090.7	2188	2814	3748	38019	63364	12087
21	11943	11771	24160	-	-	-	1095.3	-	2690	3583	36240	60400	-
22	11420	11297	23036	-	-	-	1100.0	-	2572	3426	34554	57589	-
23	10923	10845	21970	-	-	-	1104.6	-	2460	3277	32955	54925	-
24	10450	10413	20959	-	-	-	1109.3	-	2353	3135	31438	52398	-
25	10000	10000	20000	109.8	1098	-	1114.0	1800	2252	3000	30000	50000	10000
26	9572	9606	19090	-	-	-	1120.0	-	2156	2871	28635	47724	-
27	9165	9229	18226	-	-	-	1123.4	-	2064	2749	27339	45564	-
28	8777	8869	17405	-	-	-	1127.1	-	1977	2633	26108	43513	-
29	8408	8525	16626	-	-	-	1132.9	-	1893	2522	24939	41565	-
30	8056	8197	15886	111.7	1117	1171	1137.6	1488	1814	2417	23828	39714	8315
35	6530	6754	12697	-	-	-	1161.5	1237	1471	1959	19046	31744	6947
40	5325	5594	10211	115.5	1155	1230	1185.7	1034	1199	1598	15317	25529	5831
45	4367	4656	8260	-	-	-	1210.2	-	983.4	1310	12390	20650	4916
50	3601	3893	6719	119.4	1194	1291	1235.0	740	810.9	1080	10079	16799	4163
55	2985	3271	5496	-	-	-	1260.1	-	672.2	895.5	8243	13740	3540
60	2487	2760	4518	123.2	1232	1353	1285.4	540	560.1	746.2	6777	11297	3023
65	2082	2339	-	-	-	-	1311.1	-	468.9	624.7	5600	9334	2591
70	1751	1990	-	127.1	1271	1417	1337.1	400	394.5	525.5	4650	7751	2230
75	1480	1700	-	-	-	-	1363.5	-	333.3	444.0	3879	6466	1926
80	1256	1458	-	130.9	1309	1483	1390.1	300	282.9	376.9	3251	5419	1669
85	1070	1255	-	-	-	-	1417.1	-	241.1	321.2	2737	4560	1451
90	916.1	1084	-	134.7	1347	1549	1444.4	230	206.3	274.8	2313	3855	1266
95	787.0	939.6	-	-	-	-	1472.0	-	177.2	236.1	1963	3271	1109
100	678.6	817.2	-	138.5	1385	1618	1500.0	180	152.8	203.6	1672	2787	973
105	587.3	713.0	-	-	-	-	1528.3	-	132.3	176.2	1430	22384	-
110	510.1	624.1	-	142.3	1423	1688	1557.0	-	114.9	153.0	1228	2046	-
115	444.5	547.9	-	-	-	-	1586.0	-	100.1	133.3	1058	1962	-
120	388.6	482.5	-	146.1	1461	1760	1625.4	-	87.51	116.6	914.6	1523	-
125	340.8	426.0	-	-	-	-	-	-	76.75	102.2	793.2	1321	-
130	300.0	377.2	-	149.8	1498	1833	-	-	67.52	89.95	690.2	1149	-
140	234.1	298.1	-	153.6	1536	1909	-	-	52.72	70.23	527.4	878.2	-
150	184.8	238.0	-	157.3	1573	1987	-	-	41.61	55.44	407.7	678.8	-
200	-	-	-	157.8	1758	-	-	-	-	-	-	-	-
250	-	-	-	194.1	1941	-	-	-	-	-	-	-	-
300	-	-	-	212.0	2121	-	-	-	-	-	-	-	-
350	-	-	-	229.7	2297	-	-	-	-	-	-	-	-
400	-	-	-	247.0	2470	-	-	-	-	-	-	-	-

Whilst every effort has been made to ensure the accuracy of this specification, Sontay cannot accept responsibility for damage, injury, loss or expense resulting