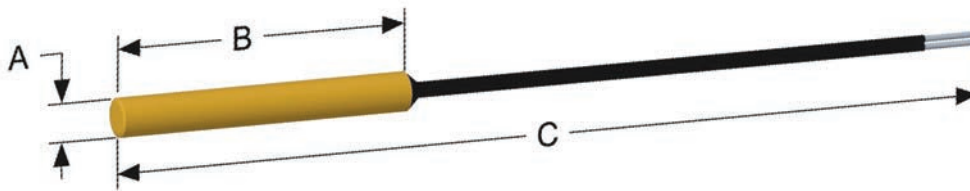
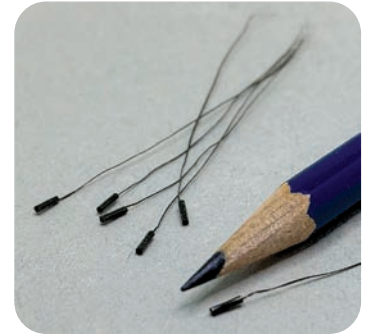


Type SC Series NTC Thermistors for Medical

Thermometrics Type SC Series NTC Thermistors are precision, solid state temperature sensors, designed with tight interchangeable tolerances, small size, and fast response times for both intermittent and continuous temperature monitoring. The small assembly package allows for excellent point of contact measurement and insertion into small housings.



Features

- 400 Series compatible (2252 Ω @ 25°C)
- Interchangeable/clinical accuracy from $\pm 0.05^\circ\text{C}$ to $\pm 0.2^\circ\text{C}$
- Small size \rightarrow fast response
 - SC30: 5 seconds (still air @25°C)
 - SC50: 8 seconds (still air @25°C)
- Fully electrically insulated
- -40°C to 105°C operating range

Applications

- In Vitro Diagnostic (IVD) Analyzers
- Wearable Skin Sensors
- Digital Thermometers
- Surgical Instruments
- Blood Analysis
- Dialysis Equipment

Resistance vs. Temperature

Temp ($^\circ\text{C}$)	R25:2252 25/85: 3969 (Ω)	R25: 10K 25/85: 3969 (Ω)	R25: 10K 25/85: 3690 (Ω)	R25: 100K 25/85: 4252 (Ω)
-40	77081.0	342277.8	242496.8	4153702.8
-30	40330.2	179086.2	136435.1	2108926.1
-20	22031.9	97832.4	79445.5	1117735.9
-10	12518.5	55588.5	47756.8	616199.9
0	7373.0	32739.8	29565.8	352205.6
10	4487.2	19925.5	18809.3	208103.2
20	2814.1	12496.1	12271.4	126766.5
25	2252.0	10000.0	10000.0	100000.0
30	1814.1	8055.4	8194.8	79417.9
37	1354.4	6014.2	6257.6	58142.6
40	1199.3	5325.5	5591.9	51058.1
50	811.5	3603.5	3892.8	33618.4
60	561.0	2491.0	2760.8	22629.3
70	395.5	1756.3	1992.0	15546.6
80	284.0	1261.1	1460.5	10884.8
90	207.4	920.9	1087.0	7756.1
100	153.8	683.1	820.3	5617.8
105	133.2	591.6	716.1	4808.8

Ordering Information

Description	SKU	Res. @ 25°C (Ω)	Res. Tol. @ 37°C	25/85 Beta	"A" (OD)	"B" (Sleeve Length)	"C" (Total Length)	Lead Type
SC30F232VN	508845	2252	$\pm 0.10^\circ\text{C}$	3969K	0.032" max	0.245" ref	1.50" min	#38 AWG Ni
SC30F103AN	508696	10K	$\pm 0.05^\circ\text{C}$	3969K	0.032" max	0.075" ref	1.50" min	#38 AWG Ni
SC30F103VN	508063	10K	$\pm 0.10^\circ\text{C}$	3969K	0.032" max	0.110" ref	1.50" min	#38 AWG Ni
SC30F103VN-L100	508850	10K	$\pm 0.10^\circ\text{C}$	3969K	0.032" max	0.110" ref	4.00" min	#38 AWG Ni
SC30F103VN-L150	508851	10K	$\pm 0.10^\circ\text{C}$	3969K	0.032" max	0.110" ref	6.00" min	#38 AWG Ni
SC30F103VN-L200	508852	10K	$\pm 0.10^\circ\text{C}$	3969K	0.032" max	0.110" ref	7.90" min	#38 AWG Ni
SC30F103WN	508062	10K	$\pm 0.20^\circ\text{C}$	3969K	0.032" max	0.110" ref	1.50" min	#38 AWG Ni
SC30Y103WN	508064	10K	$\pm 0.20^\circ\text{C}$	3690K	0.032" max	0.110" ref	1.50" min	#38 AWG Ni
SC50F103VN	508698	10K	$\pm 0.10^\circ\text{C}$	3969K	0.050" max	0.110" ref	3.00" min	#32 AWG Cu
SC50F103WN	508697	10K	$\pm 0.20^\circ\text{C}$	3969K	0.050" max	0.110" ref	3.00" min	#32 AWG Cu
SC50G104WN	508758	100K	$\pm 0.20^\circ\text{C}$	4252K	0.050" max	0.110" ref	3.00" min	#32 AWG Cu

Medical Disclaimer "You are hereby advised that Amphenol Advanced Sensors has not performed any biocompatibility or clinical testing of these products. The responsibility to ensure that all products comply with all applicable federal, state, and local laws lies with the OEM manufacturer or user."