

Type MC65 Series NTC Thermistors for Medical

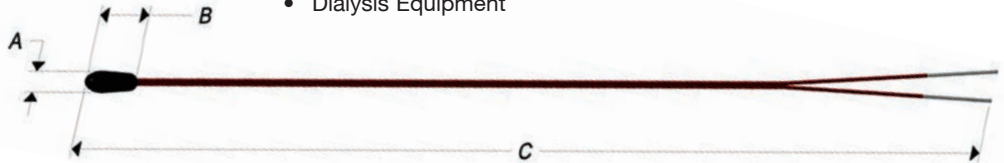
Thermometrics Type MC65 Series NTC Thermistors are precision, solid-state temperature sensors, designed with tight interchangeable tolerances, small size, and fast response times for both intermittent and continuous temperature monitoring. The small assembly package allows for excellent point of contact 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 $\pm 0.15^\circ\text{C}$
- Small size \rightarrow fast response
 - 8 seconds in still air @ 25°C
 - 0.5 seconds in stirred oil
- Fully electrically insulated
- Operating range: -40°C to 105°C

Applications

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



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
MC65F232AN	508195	2252	$\pm 0.05^\circ\text{C}$	3969K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65F502BN	508197	5000	$\pm 0.10^\circ\text{C}$	3969K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65F103AN	508199	10K	$\pm 0.05^\circ\text{C}$	3969K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65Y103CN	508202	10K	$\pm 0.15^\circ\text{C}$	3690K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65H303AN	508203	30K	$\pm 0.05^\circ\text{C}$	3936K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65G503AN	508204	50K	$\pm 0.05^\circ\text{C}$	4252K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65G104AN	508207	100K	$\pm 0.05^\circ\text{C}$	4252K	0.065"	0.175" ref	3.00"	#38 AWG Ni
MC65Y104AN	508476	100K	$\pm 0.05^\circ\text{C}$	3699K	0.065"	0.175" ref	3.00"	#38 AWG Ni

Resistance vs. Temperature

Temp ($^\circ\text{C}$)	R25: 2252 969K (Ω)	R25: 5000 3969K (Ω)	R25: 10K 3969K (Ω)	R25: 10K 3690K (Ω)	R25: 30K 3936K (Ω)	R25: 50K 4252K (Ω)	R25: 100K 4252K (Ω)	R25: 100K 699K (Ω)
-40	77081.0	171138.9	342277.8	242496.8	899542.0	2076851.4	4153702.8	2371759.2
-30	40330.2	89543.1	179086.2	136435.1	486845.4	1054463.0	2108926.1	1344070.4
-20	22031.9	48916.2	97832.4	79445.5	273419.4	558867.9	1117735.9	786864.4
-10	12518.5	27794.3	55588.5	47756.8	158891.2	308100.0	616199.9	474855.3
0	7373.0	16369.9	32739.8	29565.8	95292.1	176102.8	352205.6	294778.8
10	4487.2	9962.7	19925.5	18809.3	58836.3	104051.6	208103.2	187863.2
20	2814.1	6248.0	12496.1	12271.4	37316.4	63383.3	126766.5	122684.2
25	2252.0	5000.0	10000.0	10000.0	30000.0	50000.0	100000.0	100000.0
30	1814.1	4027.7	8055.4	8194.8	24262.4	39709.0	79417.9	81956.5
37	1354.4	3007.1	6014.2	6257.6	18198.6	29071.3	58142.6	62578.3
40	1199.3	2662.7	5325.5	5591.9	16141.5	25529.0	51058.1	55915.1
50	811.5	1801.7	3603.5	3892.8	10969.6	16809.2	33618.4	38902.8
60	561.0	1245.5	2491.0	2760.8	7603.4	11314.7	22629.3	27564.3
70	395.5	878.1	1756.3	1992.0	5367.6	7773.3	15546.6	19864.6
80	284.0	630.5	1261.1	1460.5	3854.3	5442.4	10884.8	14543.9
90	207.4	460.5	920.9	1087.0	2811.9	3878.1	7756.1	10806.6
100	153.8	341.6	683.1	820.3	2081.9	2808.9	5617.8	8141.0
105	133.2	295.8	591.6	716.1	1800.8	2404.4	4808.8	7100.5

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