

Type MA100 Series NTC Thermistors for Medical

Thermometrics Type MA100 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 insertion into catheters or other small housings.

Features

- 400 Series compatible
- Interchangeability/accuracy from $\pm 0.05^{\circ}\text{C}$ to 0.15°C
- Small size, fast response
 - MA100BF (Fig.1): 5 seconds (still air @25°C)
 - MA100GG (Fig.2): 15 seconds (still air @25°C)
- Fully electrically insulated
- 0°C to 50°C operating range
- Standard curves available

Applications

- Esophageal stethoscope (EST) sensors
- Neonatal incubator sensors
- Skin sensors
- Surgical instruments
- Urinary foley catheters
- Disposable temperature probes

Resistance vs. Temperature					
Temp (°C)	Rt/R25	Temp (°C)	Rt/R25	Temp (°C)	Rt/R25
0	3.274	17	1.433	34	0.6807
1	3.111	18	1.369	35	0.6530
2	2.957	19	1.308	36	0.6266
3	2.811	20	1.250	37	0.6014
4	2.674	21	1.194	38	0.5774
5	2.544	22	1.142	39	0.5545
6	2.421	23	1.092	40	0.5326
7	2.305	24	1.045	41	0.5116
8	2.195	25	1.000	42	0.4916
9	2.091	26	0.9572	43	0.4725
10	1.993	27	0.9164	44	0.4543
11	1.899	28	0.8776	45	0.4368
12	1.811	29	0.8407	46	0.4202
13	1.727	30	0.8055	47	0.4042
14	1.648	31	0.7720	48	0.3889
15	1.572	32	0.7401	49	0.3743
16	1.501	33	0.7097	50	0.3603



SKU	Description	Res. @ 25°C	Tol. @ 37°C	Figure	"A" OD (Max.)	"B" Sleeve Length	"C" Total Length (Min.)	Lead Type
508549	MA100BF232XN	2252 ohm	$\pm 0.10^{\circ}\text{C}$	1	0.030"	0.245" ± 0.010 "	24"	#38 AWG Ni
508576	MA100BF103AN	10K ohm	$\pm 0.05^{\circ}\text{C}$	1	0.030"	0.200 Max	24"	#38 AWG Ni
508577	MA100BF103BN	10K ohm	$\pm 0.10^{\circ}\text{C}$	1	0.030"	0.200 Max	24"	#38 AWG Ni
508578	MA100BF103CN	10K ohm	$\pm 0.15^{\circ}\text{C}$	1	0.030"	0.200 Max	24"	#38 AWG Ni
508650	MA100GG232CN	2252 ohm	$\pm 0.15^{\circ}\text{C}$	2	0.080"	0.375 Max	37"	#28 AWG SPC
508126	MA100GG103AN	10K ohm	$\pm 0.05^{\circ}\text{C}$	2	0.080"	0.375 Max	37"	#28 AWG SPC
508128	MA100GG103BN	10K ohm	$\pm 0.10^{\circ}\text{C}$	2	0.080"	0.375 Max	37"	#28 AWG SPC
508130	MA100GG103CN	10K ohm	$\pm 0.15^{\circ}\text{C}$	2	0.080"	0.375 Max	37"	#28 AWG SPC

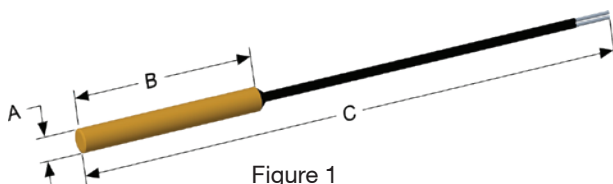


Figure 1

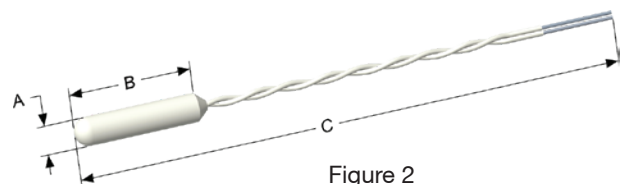


Figure 2

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."