



T H E R M O M E T R I C S
A C O M M I T M E N T T O E X C E L L E N C E

MA700 Series

Thermometrics Temperature Probes



Features

- Nominal 6K/30K Ω at 77°F (25°C)
- Interchangeable to $\pm 0.27^\circ\text{F}$ ($\pm 0.15^\circ\text{C}$) when used with an external resistor network
- Fast response
- Pediatric and adult model

Applications

- ICU's
- Outpatient clinics
- Physicians' offices
- Veterinary hospitals
- Mobile medical units
- Hospice care

Amphenol
Advanced Sensors

The MA700 Series of reusable temperature probes is ideally suited for the critical sensing parameters in continuous monitoring of a patient's body temperature. The MA700 Series may be used with thermometers and other instruments designed to accept a resistance input of nominal 6K/30K Ω at 77°F (25°C). Unit to unit accuracy is specified as $\pm 0.27^\circ\text{F}$ ($\pm 0.15^\circ\text{C}$) over a range of 32°F to 158°F (0°C to 70°C).

Repeatability and fast response are essential not only for the intermittent temperature requirements associated with oral and rectal temperature measurements, but also with continuous monitoring necessary during induced hypothermia and general anesthesia, or when employed in the pediatric environment, including the care of newborns and premature babies. Intensive care and recovery rooms have long used temperature as part of their vital sign monitoring procedures. Temperature monitoring for skin surface, tympanic, esophageal, and biofeedback applications have improved due to the high stability and tight tolerances designed into each MA700 Series probe.

A world-class manufacturer and partner you can trust to deliver the highest quality sensing products anywhere in the world.

- Sixty years of material science, in-house standards and a calibration lab traceable to National Institute of Standards and Technology (NIST) allow us to manufacture thermistor elements and assemblies with the highest stability and interchangeability available.
- The MA700 Series is derived from a solid biomedical sensor platform and the result of engineered solutions to unique applications.
- Thermometrics has excelled in offering customer's satisfaction by providing products that yield good results, such as sensors for monitoring patient's body temperature.



Phone jack: In each series the probe (thermistor) is connected to a 10 ft (3 M) long cable with a two-conductor, 0.250 in (6.35 mm) diameter phone style plug. It is also available in a straight-molded phone plug.

Series MA700 Series Characteristics

Model	Application	Description
MA701/ce	General Purpose (Adult)	Molded Epoxy Tip with Vinyl Coating 0.25 in (6.35 mm) maximum diameter
MA702/ce	General Purpose (Pediatric)	Molded Plastic Tip 0.126 in (3.2 mm) maximum diameter
MA708/ce	General Surface (Rigid Handle)	Stainless steel Cup 0.406 in (10.3 mm) diameter with stainless steel extension tube
MA729/ce	Skin Surface (Pediatric)	Stainless steel Cup 0.25 in (6.35 mm) diameter with Ribbon Cable

MA700 Series Specifications

Temperature Range

32°F to 158°F (0°C to 70°C)

Accuracy

±0.18°F (±0.1°C) from 32°F to 158°F (0°C to 70°C)

Cleaning

Probes should first be cleaned of all bio-burden, foreign matter and or material with mild detergent and water in order to improve the effectiveness of any disinfection or sterilization.

Disinfection

A 70% isopropyl alcohol; a solution of sodiumhypochlorite (bleach) diluted 1:10 minimum in water, Cidex. After disinfecting, rinse the probes thoroughly with sterile water.

Sterilization

Ethylene Oxide gas. Follow the recommended procedure issued by the manufacturer of your gas sterilizing chamber. Radiation sterilization is acceptable.

Termination

Right-angle molded three-pin stereo plug 0.25 in (6.35 mm) diameter

Storage and Handling

When not in use, store probes with cables loosely coiled in a clean and dry location at normal room temperature.

Amphenol Advanced Sensors is a leading innovator in advanced sensing technologies and innovative embedded measurement solutions customized for regulatory and industry driven applications, creating value by providing critical information for real time data decisions.

Amphenol Advanced Sensors offers industry leading domain expertise, rapid customization, world-class manufacturing capability and lasting customer relationships to deliver the greatest value in cost of ownership to their customers.

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