



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

UltraTemp™

Patient Temperature Monitoring Probes



Innovative solutions, fast development cycles and excellent quality control, combined with the purest ceramics and advanced material processing, are the key ingredients of our success in meeting the stringent demands of each application. Constant investment in developing new materials and production methods means we are continually improving our performance. Cost-effective solutions are developed in partnership with our customers to enhance their products' reliability and performance.

In today's medical environment, monitoring the patient's well-being demands the ultimate in accurate and reliable monitoring of all critical variables. New and increasingly robust technologies and services are continually in demand for optimizing performance, efficiency and safety. Thermometrics has been the pioneer in developing effective technologies in sensor design and production for Original Equipment Manufacturer (OEM) customers. Our strategy has been to design and manufacture sensors that give our customers a competitive advantage.

Amphenol
Advanced Sensors

400 Series Compatible

Multipurpose

410 General Purpose (Adult)

Molded epoxy tip with vinyl coating, 0.2 in (5.0 mm) maximum diameter



411 General Purpose (Pediatric)

Molded plastic tip, 0.15 in (3.2 mm) maximum diameter

420 Skin Surface (Adult)

Stainless steel cup, 0.37 in (9.5 mm) diameter with 24 AWG ribbon cable

421 Skin Surface (Pediatric)

Stainless steel, 0.37 in (9.5 mm) diameter with 30 AWG ribbon cable

422 Skin Surface (Rigid Handle)

Stainless steel cup, 0.4 in (10.3 mm) diameter with stainless steel extension tube

- Adult or pediatric probes for body core and skin temperature measurements.
- Fully compatible with many of the patient monitors in use today.

Autoclavable

430 General Purpose (Adult)

Molded plastic tip, 0.2 in (5.00 mm) diameter

431 General Purpose (Pediatric)

Molded plastic tip, 0.16 in (4.00 mm diameter)

432 General Purpose (Neonatal)

Silicone rubber seal at distal end, 0.12 in (3.0 mm) diameter

440 Skin Surface (Adult)

Molded plastic disk, 0.70 in diameter x 19.5 in thick (18.0 mm x 500 mm)

441 Skin Surface (Pediatric)

Stainless steel housing, 0.4 in diameter x 0.14 in thick (10 mm x 3.6 mm)

- Advanced material science improves effectiveness against infection and biohazards and allows for autoclaving at 273°F (134°C) for 18 minutes.



Specialty Probes

450 Air Temperature

Stainless steel slotted housing

451 Liquid Immersion

Closed end stainless steel tube, 0.15 in x 4.5 in (4.0 mm x 115 mm) long

452 Immersion with Threaded Body

0.15 in diameter x 4.5 in long (4.0 mm x 115 mm) closed-end stainless steel tube

453 Penetration

0.15 in diameter x 4.5 in long (4.0 mm x 115 mm) stainless steel tube with pointed tip

- Unique designs for laboratory or non-patient measurements
- Completely sealed sensing element for improved stability in harsh mediums



700 Series Compatible

Multipurpose Dual Element

710 General Purpose (Adult)

Molded epoxy tip with vinyl coating, 0.25 in (6.35 mm) maximum diameter

711 General Purpose (Pediatric)

Molded plastic tip, 0.12 in (3.2 mm) maximum diameter

720 Skin Surface (Rigid Handle)

Stainless steel cup, 0.4 in (10.3 mm) diameter with stainless steel extension tube

721 Skin Surface (Pediatric)

Stainless steel cup, 0.25 in (6.35 mm) diameter with 24 AWG ribbon cable

- Engineered for continuous use and patient safety



Accessories

Interface Cables

- Completely sealed interconnects for durability and performance
- Completely sealed interconnects for durability and performance
- Extend working length of reusable and disposable probe assemblies
- Designed for continuous use and patient safety

Certifications

- EN 13485
- CE Certification per Medical Device Directive 93/42 EEC
- BS EN ISO 9001:2000, EN 46002
- MIL-PRF-23648
- Standards and equipment traceable to NIST

UltraTemp Specifications

Temperature Range

Multipurpose and Specialty:

32°F to 158°F (0°C to 70°C)

Autoclavable:

32°F to 122°F (0°C to 50°C)

Multipurpose Dual Element:

32°F to 158°F (0°C to 70°C)

Accuracy

Multipurpose and Specialty:

±0.5°F (±0.1°C) from 32°F to 158°F (0°C to 70°C)

Autoclavable:

±0.1°F (±0.2°C) from 32°F to 77°F (0°C to 25°C) and

±0.5°F (±0.1°C) from 77°F to 122°F (25°C to 50°C)

Multipurpose Dual Element:

±0.8°F (±0.15°C) from 32°F to 158°F (0°C to 70°C) when used with an external resistor network

Cleaning

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

Disinfection

A 70% isopropyl alcohol solution of sodium hypochlorite (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. Autoclavable Series is steam autoclavable to 273°F (134°C) for 18 minutes.

Termination

Multipurpose and specialty probes have a right-angle, molded two-pin phone plug, 0.25 in (6.35 mm) diameter with molded handle.

Autoclavable probe has a straight, two-pin molded phone plug, 0.25 in (6.35 mm) diameter

Multipurpose dual element probe has a right-angle, molded three-pin stereo phone plug, 0.25 in (6.35 mm) diameter

Storage and Handling

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

Regulatory

Compliant with 93/42/EEC Medical Device Directive