



A Transonic Systems' Precision Nanoprobe is a delicate instrument for precision blood flow measurements in microsurgical research applications. Please handle this instrument with precision care to enjoy full use and trouble free maintenance over the lifetime of the product. These probes are warranted for 3 months.

Handling the Probes during Acute/Chronic Use

- ✓ Handle the chronic style Nanoprobes by the cable just in back of the probe head, or by gently grasping the probe body — NEVER apply pressure or force on the reflector or the reflector hook, which is the most delicate part of the structure.
- ✓ Acute use Nanoprobes have a stainless steel shank along the cable to easily maneuver the probe head on the vessel and maintain position of the probe with a micromanipulator. As with chronic probes that have no handle, do not apply pressure or force to the probe head or reflector.
- ✓ We suggest using fine tweezers/forceps to lift the vessel into the probe lumen, rather than using the reflector hook to scoop the vessel into the probe lumen.
- ✓ Keep sharp objects away from the reflector face and probe body (scalpels can chip the reflector surface and cut the epoxy probe body).

Sterilization

Probes can be sterilized by:

- 1) Ethylene Oxide gas sterilization
- 2) Soaking in liquid sterilizing solutions (such as 2% glutaraldehyde), then rinsing thoroughly with sterile saline.

Probes cannot be steam-sterilized, since the steam-sterilization temperatures will degrade the piezoelectric crystals embedded inside the probe.

For ethylene oxide sterilization, follow the standard sterilization cycle time for your EO system.

Recommended parameters:

• Chamber temperature	119° - 131°F
• Chamber humidity	45 - 75 % RH
• Load temperature	104° - 141°F
• Load humidity	20 - 90% RH
• Gas Mix	10%EO, 90%HCFC
• Pressure	24.2 - 27.2 PSIA
• Aeration Time	
Heated Aeration	12 - 48 Hours
Ambient Aeration	47 hours minimum

Cleaning

Probe can be cleaned of adhering tissue by soaking in a solution of Madacide-1.

Mada Inc., [HYPERLINK](http://www.madainternational.com/us/prod14_us.html)

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Probes can also be safely rinsed with isopropyl alcohol.

DO NOT place the probe in contact with acetone — this will dissolve the epoxies used in the probe.

Storage

Probes should be stored in dry, room-temperature locations in their original plastic boxes with padding to protect the probe from impact damage.

Probes should not be exposed to rapid temperature changes (such as immediately going from cold water to body-temperature water).