

samba (S) sensors **General cleaning note**

IMPORTANT! - To get the maximum service life from your Samba transducer and ensure consistently high-quality data, it is essential to clean the transducer tip according to the following instructions **every time** the transducer comes into contact with biological substances.

Background:

If blood or other biological material begins to dry on the sensor membrane, transducer performance will decrease. Biological substances that have dried on the sensor membrane will most probably result in transducer failure.

Cleaning method:

We recommend using graduated cylinders or similar during the whole cleaning procedure. Secure the cable jacket by fastening it with a tubing holding device, or simply use tape. Use only room-temperature distilled and deionized water in the cleaning procedure.

This is the only recommended cleaning method; **do not use ultrasonic devices.**

1. Submerge the transducer tip in distilled and deionized water **within 30 seconds** after removing the transducer from the subject. Keep it submerged until you begin Step 2.
2. Place the transducer tip in enzyme cleaner mixture. Soak it in this mixture for 10 to 20 minutes. Magnetic stirring is recommended.
3. Rinse the transducer tip afterwards in distilled and deionized water.

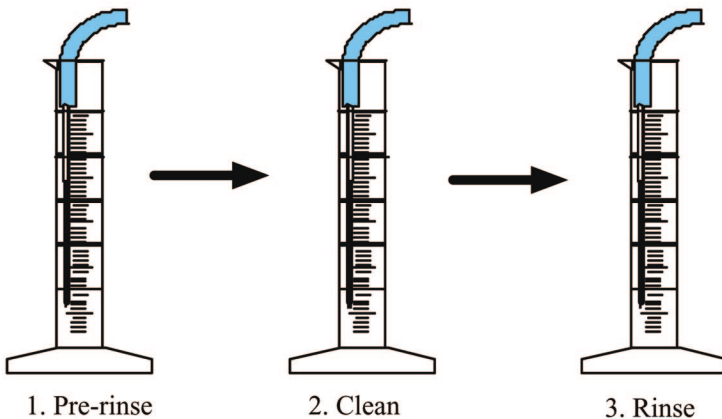



Figure 1. Cleaning setup

 You can store the transducer in the rinse cylinder if you intend to reuse the transducer in the near future.

You can do a simple check to see if the transducer is ready for a new measurement while it is still in the rinse cylinder. Connect the transducer to the control unit. Choose “cmH₂O” as the measurement unit. Place the tip just under the water surface. Perform a “zero baseline”. Submerge the transducer tip 10 cm and note the reading on the LCD. If the reading corresponds to 10 cm, you can continue with your measurement. If not, repeat the cleaning or use a new transducer.

Recommended cleaner

Terg-A-Zyme[®] (manufactured by Alconox, Inc.) is the only recommended enzyme cleaner (catalogue number: Z27328-7 (1.8 kg) Aldrich Chemical Company Inc). Use 1 g Terg-A-Zyme[®] for 100 ml water at room temperature (1% mix). Stir carefully until the powder is completely dissolved.