HOW TO CLEAN BIOPAC TSD180/181 PROBES & CONDITIONER CONNECTORS

To ensure reliable measurements and long life of the probe and conditioner fiber optic connector, wipe the probe connector before and after each connection. It is also recommended to clean the conditioner connectors once in a while, depending on instrument usage.

The following pages give some guidelines for care and cleaning of the fiber optic connectors.

List of cleaning items

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<th>Fiber optic connector cleaner</th>
<th>Plastic foam swabs</th>
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<td><img src="image1.jpg" alt="Fiber optic connector cleaner" /></td>
<td><img src="image2.jpg" alt="Plastic foam swabs" /></td>
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- Fiber optic connector cleaner
  - FIS part number #F1-7111
  - Supplier company name: Fiber Instrument Sales
  - Website: [www.fiberinstrumentsales.com](http://www.fiberinstrumentsales.com)

- Plastic foam swabs
  - FIS part number #F1-0005
  - Supplier company name: Fiber Instrument Sales
  - Website: [www.fiberinstrumentsales.com](http://www.fiberinstrumentsales.com)

Methanol/ Isopropanol

- ![Methanol/ Isopropanol](image3.jpg)
  - Items can be purchased in most hardware stores

In-adaptor ferrule cleaner - 2.5mm

- ![In-adaptor ferrule cleaner - 2.5mm](image4.jpg)
  - Supplier name: Wirewerks Inc
  - Email: [www.wirewerks.com](http://www.wirewerks.com)
Cleaning the BIOPAC TSD180/181 probe connector

Always clean the connector ferrule end face with the included connector cleaner before each connection. Failure to do so can result in permanent damage to the connector caused by hard particles trapped between the fiber optic end faces.

**Step 1**

Clean the connector with the Fiber Optic Connector Cleaner. Ensure a new cleaning surface by advancing cloth tape and tear off excess tape as required.

**Step 2**

Softly press connector on a pristine portion of the cloth tape and drag it across the tape while rotating the connector. Up to 6 connectors may be cleaned before advancing tape.
Cleaning the conditioner connector

**Step 1**

Provided in the cleaning kit, swab sticks are required to insure a proper cleaning which are available at most electronic stores. Avoid using cotton swabs. Take a swab and wet it with a few drops of isopropanol - avoid acetone.

**Step 2**

In rotating motion, smoothly insert the swab in the internal connector of your conditioner. Rotate the swab gently in order to swamp the entire internal connector surface. Repeat step #1 and 2, 3 times and always use new swabs stick. To prevent scratches on the connector, always use soft tip swab stick.
How to prevent damage and ensure a long life to your BIOPAC TSD180/181 probes

Tips to prevent probes damages and ensure long probe life:

Keep this page as a reminder at your application location.

- Keep the fiber-optic connector surface clean – adopt the habit of cleaning the connector at each use.
- When the probe is not in use, always plug a protective cap over the connector.
- Avoid dropping the connector or scraping it on hard surfaces.
- Avoid sharp bending radius in the fiber-optic cable (radius less than 10mm).
- Avoid tension or twisting of the fiber-optic cable.
- Avoid pinch points and “scissors” when setting in place the probe.
- Avoid pulling on the fiber-optic cable to clear tangles; carefully untwine it instead.
- When spooling the fiber, verify that the tie wraps or metal ties remain loose.
- When installing the probe, avoid bending or shear force on the probe tip.
- When handling the strain gauge, the external sheathing strain gauge must be kept clean until it is bonded. The gauge should be protected to prevent from grease, dust or dirt exposure.

Preventive maintenance

Inspection
The unit should be inspected occasionally to detect wear, damage or missing parts and to ensure that the mounting screws or brackets are not loose.

The power cord should be inspected as well to ensure that the female part is clean from dirt or from any other substance that could otherwise become conductive or hazardous; that the male terminals do not show sign of crack, bend or corrosion and that the plastic insulation is not damaged.

Cease using the system should any non-conformity detected on the unit or on the power cord. Contact BIOPAC for assistance.

Cleaning
The unit should be cleaned regularly to avoid excessive build-up of dust or any other potential contaminant.

To clean the unit, use a soft cloth dampened with soaped water; make sure that no liquid drips from the cloth that could introduce moisture inside the unit.

If you have any questions, please do not hesitate to contact us at info@biopac.com or tel: 805.685.0066 (USA). Our support department will be pleased to help you.