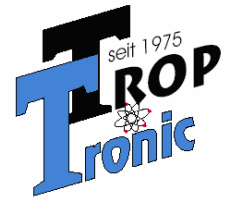


# Operating instructions for Redox - measuring device Art. No. 8/VIII-a



## **Operating instructions for Redox measuring device type 8/VIIIa**

Connect the device with mains and the redox electrode connector with the BNC - socket at the rear side. Before measuring pull the protection cap from the redox electrodes tip and flush the tip under clear water. The protection cap is filled with a special solution (KCL) to protect the electrode from becoming dry and aging. If the electrode is not used for some time apply the cap again carefully removing any air bubbles. Now dip the electrode half into the aquarium and the redox - value will be displayed after a short time. If you are measuring several different basins flush the electrode again each time under neutral water before proceeding.

After measuring use the protection cap or put the electrode in a jar of water keeping the electrode half under water. Never let it become dry. This will ruin the electrode in a very short time.

For glass electrodes use the green plastic protection tube by sliding the tube gently onto the electrode. The small holes in the protection tube should be near the electrodes tip. By doing so your precious electrode will be protected from breaking. Before calibrating remove the protection tube.

Avoid voltages by bad isolated heaters or pumps in the aquarium. Even small voltages which do not affect the creatures in the aquarium can damage the electrode rapidly. There is no warranty for electrodes ruined by this galvanic process. The redox electrode is maintenance-free. A coating of calcium carbonate after some time may be removed with a 20% vinegar solution. Cleaning may be done (very carefully) with a wet clean cloth. Don't use any force. Don't use any cleaning agents or abrasive paper.

In a biological system it may take some time to get a useful reading. Values above 225 mV are ok. Values of 300 mV show a good biological balance. Dysfunction by blocked filters or decaying creatures will be indicated early before doing any harm.

## **Calibration**

the redox measuring device and the redox electrode may be calibrated by adjusting the red recessed potentiometer using the provided screw driver. Before calibration flush the electrode under clear water. Now dry the electrode cautiously with a clean cloth to prevent dilution of the calibration fluid. Be sure that the redox calibration fluid has the right temperature as indicated on the label of the container. Then adjust to the value given on the label (e.g. 220 mV). Redox calibration fluid has a limited life time. Be sure to use only fluid which has not expired. Trop Electronic devices are shipped already calibrated and ready to use.

Subject to change without prior notice.

## **Special accessories**

quadruple electrodes holder  
for vertical or horizontal use

Green protection  
tube for redox -  
electrodes

