

# Dissolved Oxygen Probe Maintenance

DO probe maintenance involves cleaning the anode/cathode assembly of the probe, replacing the electrolyte solution and replacing the membrane cap. Maintenance procedures should be performed every one to three months. Dissolved oxygen probes require electrolyte and membrane cap replacement every two weeks to six months, depending on usage and sample type. The electrolyte must be replaced periodically, after its capacity to reduce oxygen is depleted. The membrane cap should be replaced if the membrane becomes discolored, wrinkled or torn. If dissolved oxygen readings become erratic or irreproducible, the first step to troubleshooting is performing probe maintenance procedures.

## Maintenance Procedures

1. Unscrew the membrane cap from the probe and dispose of the electrolyte solution and membrane cap.
2. Place a few drops of distilled water on a polishing disk. Polish the probe cathode with the polishing disk for about 10 seconds. Polishing disks are included in the probe maintenance kits, Cat No. 080513 and 080113.
3. Rinse the probe anode/cathode assembly with distilled water and blot dry.
4. Fill a new membrane cap about  $\frac{3}{4}$  full with new electrolyte solution.
5. Screw the membrane cap onto the probe until the membrane cap is hand tight.
6. Polarize the probe.

The probe must be polarized before use. To polarize a probe, attach the probe to the meter, connect the meter to a power supply and wait 30 to 60 minutes. The probe is continuously polarized when it is connected to the meter, so this process does not need to be repeated unless probe maintenance is performed or the probe is disconnected from the meter for more than an hour. If the probe is disconnected from the meter for less than an hour, allow the probe to polarize for 5 to 25 minutes before use.

Dissolved Oxygen Probe	Maintenance Kit
080510MD, 081010MD, 081010	080113
083005MD, 083010MD, 083025MD, 083060MD, 083005D, 081010F, 083005A, 083010A, 083010E, 083150A	080513
Dissolved Oxygen Probe	Membrane Cap
080510MD, 081010MD, 081010	081003
083005MD, 083010MD, 083025MD, 083060MD, 083005D, 081010F, 083005A, 083010A, 083010E, 083150A	080515

### Environmental Instruments Water Analysis Instruments

166 Cummings Center  
Beverly, MA 01915 USA  
Toll Free: 1-800-225-1480  
Tel: 1-978-232-6000  
Dom. Fax: 1-978-232-6015  
Int'l Fax: 978-232-6031  
email: [info.water@thermofisher.com](mailto:info.water@thermofisher.com)

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