# COG-1, COG-2

**USER'S MANUAL** 

# **ELMEIRON** Sp. j.

### **Usage and maintenance**

Before the measurement the sensor should be activated. To do it one should immerse the sensor in distilled water for about 5 minutes.

Lack of the result stabilisation informs that the membrane is clogged. In this case it is necessary to clean or replace the membrane. The membrane may be cleaned by washing in distilled water, or by very gentle cleaning with cotton cloth with diluted alcohol. If the membrane is leaking the measured solution may get into the sensor and contaminate it, so it is very important to check the condition of the membrane, weather there are no cracks or leaks. If you will notice any irregularity both the membrane and the electrolyte should be replaced.

Before replacing the membrane one should:

- 1. Unscrew the membrane cap (1) paying attention to o ring (2) which should stay on the sensor corpus;
- 2. Pour in the new electrolyte into the membrane cup. It is important to pay attention weather there are no air bubbles in the electrolyte In order to avoid air bubbles in the electrolyte, it is recommended to pour it on the wall of the container:
- Screw on the container (1) on the electrode corpus. This action should be done slowly, to enable the electrolyte excess to flow out. Pay attention to o – ring that should be put into right place (hole in the sensor corpus);
- 4. Wash the sensor in distilled water and dry it;

The electrode is ready for work.

#### **CAUTION:**

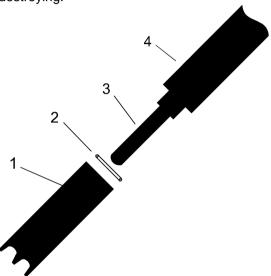
- 1. Never touch the central part of the membrane with fingers, because it is sensitive to contamination.
- The frequency of the membrane and electrolyte replacing depends on the frequency and time of the measurements and on the measured solutions.

## Storing the electrode

- During short breaks between the measurements the sensor should be stored in distilled water.
- 2. For longer breaks the sensor should be stored in the box.

If the forecasted break time is very long it is advised to unscrew all the parts of the sensor and dry them.

NEVER STORE THE SENSOR IN NaSO3 SOLUTION, because it shortens the sensor life time, and in case of getting this solution inside the sensor it may cause it's destroying.



Pic.1.

## Preparation of the solution with zero oxygen saturation

Pour a half volume of the cap of the container with a NaSO3 into 100 ml distilled water and stir accurately. The solution can be repeatedly used, being stored it in closed container; a small amount of NaSO3 has to be added before reusing it.