## Methods, IAAC, Kurz

## Oxygen sensors

Model:

Oxygen Sensor Clark-type

Unit and Room:

Inorg. Chem, R 130 and 136

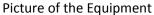
(Chem II)

Responsible: Further Information:

S. Lee and C. Frey

## Short description:

determination of the concentration of dissolved oxygen in (especially aqueous) solutions. The sensors are based on the classical "Clarkelectrode" set-up and thus measure the  $O_2$  diffusing through a Teflon or silicone membrane electrochemically.





 $\label{lem:available Experiments/Techniques:} A vailable Experiments/Techniques:$ 

Two types of sensors are available:

a) Oxygen Micro Sensor (diameter: 10mm,

length: 15 cm) made by Unisense

and

b) Clark cell made by Rank Brothers (volume:

~5mL)



| Special Equipment: |  |  |  |
|--------------------|--|--|--|
|                    |  |  |  |
|                    |  |  |  |

| Measurements on the Equipment are currently   | ☐ Students                                 |  |
|---|--|--|
| done by:                                      | ☐ Students after Introduction              |  |
|   | ☐ Students after intensive training        |  |
|   | ☑ Trained scientific service personal      |  |
| Recent publications, where this equipment was | none                                       |  |
| important                                     |  |  |
| typical problems that may be solved with this | oxygen formation during chemical reactions |  |
| instrument:                                   |  |  |