



Methods , IAAC, Kurz

<h2>Oxygen sensors</h2>	Model:	Oxygen Sensor Clark-type
	Unit and Room:	Inorg. Chem, R 130 and 136 (Chem II)
	Responsible:	S. Lee and C. Frey
	Further Information:	

<p>Short description:</p> <p>determination of the concentration of dissolved oxygen in (especially aqueous) solutions. The sensors are based on the classical "Clark-electrode" set-up and thus measure the O₂ diffusing through a Teflon or silicone membrane electrochemically.</p>	<p style="text-align: center;">Picture of the Equipment</p> 
<p>Available Experiments/Techniques:</p> <p>Two types of sensors are available:</p> <p>a) Oxygen Micro Sensor (diameter: 10mm, length: 15 cm) made by Unisense and</p> <p>b) Clark cell made by Rank Brothers (volume: ~5mL)</p>	

<p>Special Equipment:</p>

<p>Measurements on the Equipment are currently done by:</p>	<p><input type="checkbox"/> Students</p> <p><input type="checkbox"/> Students after Introduction</p> <p><input type="checkbox"/> Students after intensive training</p> <p><input checked="" type="checkbox"/> Trained scientific service personal</p>
<p>Recent publications, where this equipment was important</p>	<p>none</p>
<p>typical problems that may be solved with this instrument:</p>	<p>oxygen formation during chemical reactions</p>