

# OXYTRANS M

## Portable O<sub>2</sub>-Measuring Unit



- Highly precise and fast Oxygen in Liquids and Gases
- Optical, without Membrane nor Electrolyte
- Easy to use menu driven software
- Data logger with Date, Time and Measuring Point
- Long run stable, low response time
- Easy Maintenance, hygienic Construction, CIP-capable



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## Technical Data:

<b>Measuring range (liquid phase):</b>	I) 1 ppb – 2 ppm or II) 30 ppb – 35 ppm
<b>Accuracy (liquid phase):</b>	I) +/- 1 ppb or II) +/- 30 ppb
<b>Measuring range (gas phase):</b>	I) 0 – 4,2 %O <sub>2</sub> or II) 0 – 50 %O <sub>2</sub>
<b>Accuracy (gas phase):</b>	I) +/- 0,002 %O <sub>2</sub> or II) +/- 0,03 %O <sub>2</sub>
<b>Response time:</b>	T90 < 10s
<b>Temperature comp.:</b>	PT100
<b>Temperature range, Medium:</b>	Measurement: -5°C - 55°C Resistance: max. 130 °C
<b>Pressure range:</b>	Max. 12 bar
<b>Material in contact with medium:</b>	Stainless steel 1.4404, Silicone (FDA), PTFE (FDA)
<b>Hose connector:</b>	6 mm
<b>Data-logger-function:</b>	- Manual and automatic with selectable Interval from 5 to 600 s - ca. 5000 measured values - PC-software for data management - USB-Interface
<b>Enclosure rating:</b>	IP 65
<b>Dimensions:</b>	LxWxH = 280x100x65mm
<b>Weight:</b>	1,7 kg
<b>Power supply:</b>	Battery, rechargeable

Centec GmbH  
Wilhelm-Röntgen-Str. 10  
63477 Maintal/Frankfurt, Germany  
Tel.: +49 (0)6181 1878 0 • Fax: +49 (0)6181 1878 50  
info@centec.de • www.centec.de

The new mobile O<sub>2</sub>-instrument Oxytrans M measures continuously and exactly the content of oxygen in liquids and gases. The sensor is especially designed for breweries and further applications with high requirements, e.g. power plants or bioreactors. The optical principle of measurement is based on the effect of dynamic luminescence quenching by molecular oxygen. The indicator layer on the glass installed in the measuring head is illuminated with a blue-green-light. With this, the indicator molecules are transferred into an excited state and emit a red light and detected by the internal detector. If oxygen is in the medium, this luminescence effect is prevented by energy transfer to the oxygen molecule. After the collision with the indicator molecule the oxygen molecule is transferred from its ground state (triplet state) to its excited singlet state. As a result, the indicator molecule does not emit luminescence and the measurable luminescence signal decreases linear to existing oxygen concentration. This decrease is the basis for the oxygen calculation. The O<sub>2</sub>-concentration can be displayed in different units like ppb, ppm, %oxygen, etc.



**UK Distributor**  
**Protecnica Solutions Ltd**  
Stalworths, The Street,  
Great Tey, Colchester,  
Essex, CO6 1JS, UK  
Tel: 01206 211921  
sales@protecnica.co.uk  
www.centec-sensors.co.uk