Electrochemical oxygen sensor

LOW INVESTMENT COSTS, PRECISE MEASUREMENTS
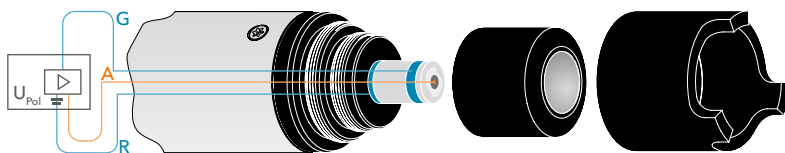
Proven technique
for precise measurements

Advantages

- Low investment costs

- No running in, no long-term drift – stable from the beginning to the end

- Self-diagnosis system SensReg / SensLeck by means of 3 electrode system

The sensors are known for their high accuracy. The teflon membrane makes them extremely insensitive to biological deposits. The membrane, like the electrolyte consumption are monitored continuously.

left: scheme of the TriOxmatic® 3 electrode system: gold cathode (A), counter electrode (G, silver) and reference electrode (R, silver);
right: membrane cap and protective cap

top left: TriOxmatic® 700 IQ;
top right: seawater model TriOxmatic® 700 IQ SW

Technical Data

Model	TriOxmatic® 700 IQ (SW)	TriOxmatic® 701 IQ	TriOxmatic® 702 IQ
Measureing ranges	0.0 … 60.0 mg/l 0 … 600 %	0.00 … 20.00 mg/l 0.0 … 60.0 mg/l 0.0 … 200.0 % 0 … 600 %	0 … 2000 µg/l 0.00 … 10.00 mg/l 0 … 110 %
Resolution	0.1 mg/l 1%	0.01 mg/l 0.1 mg/l 0.1 % 1 %	0.01 mg/l 0.1 mg/l 0.1 % 1 %
Response time at 25 °C	t_{90}: 180 s	t_{90}: 30 s t_{99}: 90 s	t_{90}: 30 s t_{99}: 110 s
Temperature measurement	Integrated NTC, -5 … +60 °C		
Operational temperature	0 … 60 °C		
Permissible overpressure	10 bar		

For further technical data please see datasheet D2.01.

IQ SENSOR NET

for Systems 2020 and 282/284

www.iq-sensor.net

Ordering Information

Model	Description	Order No.
TriOxmatic® 700 IQ	Universal oxygen sensor for the measurement and regulation of oxygen input in wastewater treatment plants (please order cables separately)	201640
TriOxmatic® 700 IQ SW	Like TriOxmatic® 700 IQ, but as a sea water model	201641
TriOxmatic® 701 IQ	Like TriOxmatic® 700 IQ , but with faster response times	201644
TriOxmatic® 702 IQ	Like TriOxmatic® 700 IQ, but as a trace sensor (ppb area) suitable for pure or boiler feed water	201646