


## Data Sheet OXYGOLD G

The OXYGOLD G is an electrochemical oxygen sensor designed for hygienic applications or for processes in which very small amounts of oxygen have to be traced, like in the pharmaceutical or semiconductor industry. It is also suitable for processes in which high pressures are applied.

### Application Fields:

Chemical industry, pharmaceutical industry, semiconductor industry, water treatment, power plants

### Specifications:

Serial Number:	Yes
Certificate:	Yes
Measuring Method:	Measurement of the electrical current affected by the partial pressure of oxygen
Range:	1 ppb ... 40 ppm of dissolved oxygen
Current in air at 25 °C:	180 ... 500 nA
Residual current in nitrogen:	< 0.02% (relative to current in air)
Response time $t_{98\%}$ :	Max. 60 s at 25 °C, from air to nitrogen
Oxygen consumption:	Ca. 100 ng/h in air at 25 °C
Required flow:	$\geq 0.1$ m/s
Drift at room temperature under constant conditions:	< 1% per week
Max. CO <sub>2</sub> partial pressure:	0.01 bar
Temperature sensor:	NTC 22 kOhm
Temperature response:	3.1%/K
Storage temperature:	-10 ... 60 °C
Working temperature:	0 ... 130 °C
Pressure range:	0 ... 12 bar
Pressure compensation:	Not required
Electrode system:	Silver platinum combination
Membrane:	OPTIFLOW
Shaft diameter:	12 mm
Mounting:	PG 13.5 thread
Electrical connector:	VP 6.0 connector head
Wetted materials:	Stainless steel 1.4435, silicone, EPDM with FDA approval, Gold
Surface quality of steel:	< 0.4 $\mu$ m
Electrolyte:	OXYLYTE G, alkaline
Polarization voltage:	-670 $\pm$ 50 mV
Stabilisation time:	< 2 hours
Steam sterilizable:	Yes
Autoclavable:	Yes
CIP:	Yes
ATEX approval:	Yes, CE 0035  II 1/2 G Ex ia IIC T4/T5/T6



### Ordering Information:

Part Number	Description	a-length
237395	OXYGOLD G 120	120 mm
237396	OXYGOLD G 225	215 mm

### Accessories:

Part Number	Description
237139	OXYLYTE "G" Electrolyte for OXYGOLD, 50 ml
237135	OXYGOLD Membrane Kit
237350	Polarization Module G (for OXYFERM VP and OXYGOLD G)
237427	Replaceable Cathode OXYGOLD G (for sensors with P/N > 5000)

### Dimensional drawing:

