

OxyGold B



Specifications

Measuring range	8 ppb to 40 ppm (DO)
Response time t _{98%}	< 60 s at 25 °C, from air to nitrogen
Process temperature	0 to 100 °C
Pressure range (relative to ambient)	0 to 12 bar
Hygienic aspects	CIP
Electrolyte	Oxlyte B
Surface Quality	R _a < 0.4 μm (N5)
Current in air at 25°C	180 to 500 nA
Material	Stainless steel 1.4435
Polarization voltage	0 mV
O-ring	EPDM

For more specifications see www.hamiltoncompany.com

The OxyGold B is an electrochemical oxygen sensor especially designed for applications which contain carbon dioxide like the production of beer, sparkling wine or soft drinks. The sensor is not affected by acidic gases.

Apart from the production of sparkling beverages, the OxyGold B can be used in all production processes where CO₂ might be an issue for electrochemical sensors.



“ Did you know...
that the OxyGold B is the only
sensor in the market with a
polarization voltage of 0 mV? ”

Benefits

- ▶ No cross-sensitivity with CO₂
- ▶ Only very little flow required
- ▶ Pressure and CIP resistant
- ▶ Replacing the cathode is possible and very simple to perform.

Typical applications

- ▶ CO₂ recovery
- ▶ Water de-aeration

Ordering Information

	a-length	VP 6	Arc
OxyGold B	120 225	237180 237185	not available anymore*

*See VisiTrace sensor, page 92

Accessories



- OxyGold Membrane Kit Ref 237135
- Oxlyte B 30 mL Ref 237138
- Polarization Module B Ref 237360
- Replacement Cathode OxyGold B Ref 237437

Cables see page 112

Housings see page 127



Oxygen Accessories



OxyFerm Membrane Kit

The OxyFerm Membrane Kit contains 3 membrane bodies, Oxylyte electrolyte, pipette, spare o-ring and a polishing strip.

Ref 237123

Membrane Kit FDA

The Membrane Kit FDA is the kit for the OxyFerm FDA sensors and contains 3 FDA membrane bodies, Oxylyte electrolyte, pipette, spare o-ring and a polishing strip. The membrane body of the FDA membrane has a special rounded design to prevent accumulation of gas bubbles.

Ref 237140

Membrane Kit CIP

The Membrane Kit CIP contains 3 membrane bodies that are especially designed to withstand CIP cleanings. Oxylyte electrolyte, pipette, spare o-ring and a polishing strip.

Ref 237126

OxyGold Membrane Kit

The OxyGold Membrane Kit contains 3 membrane bodies with the rounded design, pipette and a spare o-ring. Electrolyte must be ordered separately to match the sensor (see page 111).

Ref 237135

Polarization Module

The Polarization Module is to prepare replacement sensors so that they can be used immediately for measurements without connection to a transmitter. It polarizes the oxygen sensors and saves polarization time at the transmitter.

Polarization Module T OxyFerm / OxyFerm FDA / OxyFerm XL	Ref 237370
Polarization Module G OxyFerm VP / OxyGold G	Ref 237350
Polarization Module B OxyGold B	Ref 237360

Replacement Cathode OxyFerm	Ref 237306
Replacement Cathode OxyGold G	Ref 237427
Replacement Cathode OxyGold B	Ref 237437

Autoclavation Cap

The Autoclavation Cap is used to protect the OxyFerm T82 connector from moisture during autoclavation. It is important to keep connections dry and clean to ensure reliable measurements.

Autoclavation Cap OxyFerm Ref 242000

Electrolytes and Solutions



Electrolyte

Electrolytes for pH Sensors		Ref
3 M KCl	100 mL	238036
3 M KCl	500 mL	238936
Skylyte-CL	100 mL	242080
Protelyte	100 mL	238038
3 M KCl-LR	500 mL	238939
Skylyte	500 mL	238937

Electrolytes for Oxygen Sensors		Ref
OxyGold Oxylyte G	30 mL	237139
OxyGold Oxylyte B	30 mL	237138
OxyFerm Oxylyte	30 mL	237118

Storage Solution

In order to achieve long sensor life and faster electrode response times, it is recommended to store electrodes in our storage solution. It is an acid-buffered solution that ensures the regeneration of the electrode in addition to provide an optimized storage.

Storage Solution 500 mL Ref 238931



Cleaning Solution Set

Depending on the type of application, the pH glass or diaphragm can get contaminated through various ingredients of the measuring solution. This is indicated by a slow response of the electrode, or even incorrect readings. To overcome these problems, Hamilton has developed a cleaning solution set. The intention is to have an overall cleaning of the pH glass as well as the diaphragm. The set is comprised of Cleaning Solution A, Cleaning solution B and a storage solution. To clean the electrode put it into each solution for 15 – 30 minutes, and your electrode will be ready for new measurements again.

Cleaning Solution Set Ref 238290