

Data Sheet


OXYFERM XL 56

The OXYFERM XL 56 is an electrochemical oxygen sensor suited for applications such as chemical and pharmaceutical industries and biotechnology. When using OXYLYTE USD electrolyte, even upside-down insertion is possible. For the OXYFERM XL 56, various o-ring positions are possible, from 22 to 55 mm.

Application Fields:

Chemical industry, pharmaceutical industry, biotechnology

Specifications:

Serial Number:	Yes
Certificate:	Yes
Measuring Method:	Measurement of the electrical current affected by the partial pressure of oxygen
Range:	10 ppb ... 40 ppm of dissolved oxygen
Current in air at 25 °C:	40 ... 80 nA
Residual current in nitrogen:	< 0.1% (relative to current in air)
Respond time $t_{98\%}$:	Max. 60 s at 25 °C, from air to nitrogen
Oxygen consumption:	Ca. 20 ng/h in air at 25 °C
Required flow:	≥ 0.03 m/s
Drift at room temperature under constant conditions:	< 1% per week
Max. CO ₂ 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 ... 4 bar
Pressure compensation:	Not required
Electrode system:	Silver platinum combination
Membrane:	OPTIFLOW
Shaft diameter:	12 mm
Mounting:	G1 1/4" thread
Electrical connector:	Standard 4 pole T 82/D4
Wetted materials:	Stainless steel 1.4435, silicone, FKM (Viton®)
Surface quality of steel:	0.4 μ m
Electrolyte:	OXYLYTE, 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
237175-OP	OXYFERM XL 56	56 mm

OP = O-ring position

Accessories:

Part Number	Description
237118	OXYLYTE Electrolyte for OXYFERM, 50 ml
237136	OXYLYTE USD Electrolyte, 50 ml
237123	OXYFERM Membrane Kit
237126	Membrane Kit CIP
237140	Membrane Kit FDA
237370	Polarization Module T (for OXYFERM/FDA/XL)
237137	OXYFERM Connector Cap for Autoclavation
237306	Replaceable Cathode OXYFERM (for sensors with P/N > 5000)

Dimensional drawing:

