

OxyFerm XL 150

Specification Sheet (Part #237170)



The OxyFerm family of electrochemical (amperometric) oxygen sensors are designed for the use in biotechnology applications, where autoclavations, steam sterilisations (SIP) and cleaning in place procedures occur frequently. Different membrane materials and membrane body shapes with a protective edge or rounded are available. The rounded with the FDA-approved silicone membrane is called OxyFerm FDA. Available with the innovative Arc technology.

Product Specifications

a-length	125 mm
ATEX Approval	CE 0035 II 1/2 G Ex ia IIC T4/T5/T6
Autoclavable	Yes
Certificate	material and performance test certificate
CIP	Yes
Diameter	25 mm
Drift at Room Temp. under Constant Conditions	< 1 % per week
Electrical Connector	T82/D4
Electrode system	Silver platinum combination
Electrolyte	Oxlyte
Max. CO2 partial pressure	0.01 bar
Measurement Principle	electrochemical reduction of oxygen
Measuring Range	10 ppb to 40 ppm (DO) or 0.2 to 1000 mbar (pO2)
Medium Affected Materials	Stainless steel 1.4435, Silicone, FPM

Product Specifications (continued)

Membrane	Optiflow
O-ring material	FPM
OP	7 to 63 mm
Operating Temperature Range	0 to 130 °C
Oxygen Consumption	Ca. 20 ng/h in air at 25 °C
Polarization Voltage and Time	-670 ± 50 mV, ≥ 2 hours
Pressure Range	0 to 4 bar
Process Connection	G 1-1/4"
Required Flow	≥ 0.03 m/s
Response Time t98%	30 to 60 s at 25 °C, from air to nitrogen
Serial Number	Yes
Steam Sterilizable	Yes
Surface Quality of Steel	Ra < 0.4 µm (N5)
Temperature Sensor	NTC 22 kOhm

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