

OxyFerm FDA VP 120

Specification Sheet (Part# 237540)



The OxyFerm FDA is an electrochemical oxygen sensor suited for applications with high demands for hygiene, e.g. in pharmaceutical industry, in biotechnology and in foods & beverages production. It is available with 12 mm or 25 mm shaft (XL) diameter. When using Oxylyte USD electrolyte, even upside-down insertion is possible. The sensor is equipped with a FDA approved membrane for usage in hygienic processes. It can withstand steam sterilization, autoclavation and CIP cleanings.

Product Specifications

a-length	120 mm
Measurement Principle	electrochemical reduction of oxygen
Measuring Range	10 ppb to 40 ppm (DO) or 0.2 to 1000 mbar (pO ₂)
Membrane / Cap	Delivered with Optiflow FDA
Electrolyte	Oxylyte
Oxygen Consumption	Ca. 20 ng/h in air at 25 °C
Required Flow	≥ 0.03 m/s
Response Time t90%	< 60 s at 25 °C
Temperature Sensor	NTC 22 kOhm
Current in Air at 25 °C	40 - 80 nA
Drift at Room Temperature	< 1 % per week
ATEX Approval	CE 0035 II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb, CE 0035 II 1/2 D ia IIIC T x °C Da/Db
IECEX Approval	CE 0035 II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb, CE 0035 II 1/2 D ia IIIC T x °C Da/Db
Autoclavable	Yes
CIP	Yes
Steam Sterilizable	Yes

Product Specifications

Operating Temperature Range	0 to 130 °C
Pressure Range (bar g)	0 to 4 bar
Max. CO ₂ Partial Pressure	0.01 bar
O-ring Material	EPDM (FDA approved, USP class VI)
Surface Quality of Steel	Ra < 0.4 µm (N5)
Certificate	material and performance test certificate
Diameter	12 mm
Process Connection	PG13,5
Electrical Connector	VP6
Wetted Parts	Stainless steel 1.4435, Silicone (FDA approved), EPDM
Electrode system	Silver platinum combination
Polarization Voltage and Time	-670 ± 50 mV, ≥ 2 hours
Serial Number	Yes

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