

OxyFerm FDA



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 food & beverage production. It is available with 12 mm or 25 mm (XL) shaft diameter.

The sensor is equipped with an FDA-approved membrane for use in hygienic processes. It withstands steam sterilization, autoclavation and CIP cleanings.

Benefits

- ▶ Sanitary Feature: The silicone membrane seals without a gap to steel membrane body (no additional o-ring)
- ▶ Little drift, fast response, short polarization time
- ▶ Replacing the cathode is possible and very simple to perform.

Typical applications

- ▶ ATEX environment
- ▶ Fermentation

Specifications

Measuring range	10 ppb to 40 ppm (DO)
Response time $t_{99\%}$	< 60 s at 25 °C, from air to nitrogen
Process temperature	0 to 130 °C (Arc: analog 0 to 110 °C, digital 0 to 130 °C)
Pressure range (relative to ambient)	0 to 4 bar
Hygienic aspects	Autoclavable, CIP, SIP
Electrolyte	Oxylyte
Surface Quality	$R_a < 0.4 \mu\text{m}$ (N5)
Current in air at 25°C	40 to 80 nA
Material	Stainless steel 1.4435
Polarization voltage	-670 mV
O-ring	EPDM*

For more specifications see www.hamiltoncompany.com

Ordering Information



	a-length	T82	VP 6	Arc	MS
OxyFerm FDA	120	237450	237540	243100	237713
	160	237455	237541	243101	10069701
	225	237452	237542	243102	237715
	325	237453	237543	243103	10069700
	425	237454	237544	243104	-
OxyFerm XL	56	237175-OP	-	243140-OP	-
	125	237170	-	-	-
	262	237174	-	-	-
OxyFerm CIP	120	243289	-	-	-

With the XL option, the o-ring position can be optimally matched to the weld-in socket from 22 to 55mm. Please state the OP you need when ordering.

Accessories



- Membrane Kit FDA Ref 237140
- Membrane Kit CIP Ref 237126
- Membrane Kit Ref 237123
- Oxylyte 30 mL Ref 237118

- Replacement Cathode OxyFerm Ref 237306
- Autoclavation Cap Oxyferm Ref 242000
- Polarization Module G Ref 237350
- Polarization Module T Ref 237370

- Cables see page 108
- Arc Accessories see page 112
- Housings see page 123

