

Oxysens 120

Specification Sheet (Part# 237150)



The Oxysens is an electrochemical (amperometric) oxygen sensor that is designed for the use in water, swimming pools and fish farms. This sensor is insensitive to soiling due to a fixed cable. No replacement of cathode, membrane or electrolyte and therefore maintenance free. The response time of the Oxysens is fast, it is almost independent to flow.

Product Specifications

a-length	120 mm
Measurement Principle	electrochemical reduction of oxygen
Measuring Range	40 ppb to 40 ppm (DO) or 0.8 to 1000 mbar (pO ₂)
Membrane / Cap	Delivered with Optiflow
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	No
CIP	No
Steam Sterilizable	No

Product Specifications

Operating Temperature Range	0 to 60 °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 < 0.8 µm (N6)
Certificate	No
Diameter	12 mm
Process Connection	PG13,5
Electrical Connector	5 m Cable / Open End
Wetted Parts	Stainless steel 1.4435, Silicone, EPDM, PEEK
Electrode system	Silver platinum combination
Polarization Voltage and Time	-670 ± 50 mV, ≥ 2 hours
Serial Number	Yes

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Web: www.hamiltoncompany.com

USA: +1-800-648-5950

Europe: +41 58 610 10 10

Hamilton Americas & Pacific Rim

Hamilton Company Inc.
4970 Energy Way
Reno, Nevada 89502 U.S.A.
Tel: +1-800-648-5950
Fax: +1-775-856-7259
sales@hamiltoncompany.com

Hamilton Europe, Asia, & Africa

Hamilton Bonaduz A.G.
Via Crusch 8
CH-7402 Bonaduz, Switzerland
Tel: +41 58 610 10 10
Fax: +41-58-610-00-10
contact@hamilton.ch

To find a representative in your area, please visit hamiltoncompany.com/contacts