

Oxysens 120

Specification Sheet (Part/REF # 237150)



Oxysens polarographic dissolved oxygen sensors offer a simple, economical solution for measurements in fish farms, water treatment, and algae ponds.

Product Specifications

Sensor Family	Oxysens
Parameter	DO (Electrochemical)
Sensor Output	Traditional: nA
a-length	120 mm
Electrical Connector	5 m Fix Cable / Open End
Measurement Principle	Electrochemical reduction of oxygen
Measuring Range	40 ppb to 40 ppm (DO) or 0.8 to 1000 mbar (pO ₂)
Drift at Room Temperature	< 1 % per week
Membrane Cap	Optiflow
Electrolyte	OxylYTE
Oxygen Consumption	Ca. 20 ng/h in air at 25 °C
Temperature Sensor	NTC 22 kOhm
Current in Air at 25 °C	40 - 80 nA
Diameter	12 mm
Process Connection	PG13,5
Wetted Parts	Stainless Steel 1.4435 PEEK (Polyetheretherketone) EPDM (Ethylene propylene elastomer) VMQ (Silicone elastomer) Silicone
Surface Quality of Steel	Ra < 0.8 µm (N6)
Electrode system	Silver platinum combination
Polarization Voltage and Time	-670 ± 50 mV, ≥ 2 hours
Serial Number	Yes
Response Time t90%	< 60 s at 25 °C
Certificate	No
ATEX Approval	II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db
IECEx Approval	II 1/2 G Ex ia IIC T4/T5/T6 Ga/Gb; II 1/2 D ia IIIC T x °C Da/Db
Autoclavable	No
CIP	No
Steam Sterilizable	No

Operating Temperature Range	0 to 60 °C
Pressure Range bar g	0 to 4 bar
Max. CO₂ Partial Pressure	0.01 bar
Required Flow	≥ 0.03 m/s

Specifications are subject to change without notice

<https://www.hamiltoncompany.com/sensors/237150>

Spec. Version B