

OxyGold G 120

Specification Sheet (Part/REF # 237395)



OxyGold G traditional polarographic DO sensors offer parts-per-billion trace oxygen measurement with a nA output signal compatible with most transmitters and controllers on the market.

Product Specifications

Sensor Family	OxyGold G
Parameter	DO (Electrochemical)
Sensor Output	Traditional: nA
a-length	120 mm
Electrical Connector	VP6
Measurement Principle	Electrochemical reduction of oxygen
Measuring Range	1 ppb to 40 ppm (DO) or 0.02 to 1000 mbar (pO ₂)
Drift at Room Temperature	< 1 % per week
Membrane Cap	Optiflow
Electrolyte	Oxylyte G
Oxygen Consumption	Ca. 100 ng/h in air at 25 °C
Temperature Sensor	NTC 22 kOhm
Current in Air at 25 °C	180 to 500 nA
Diameter	12 mm
Process Connection	PG13,5
Wetted Parts	Stainless Steel 1.4435 EPDM (Ethylene propylene elastomer) VMQ (Silicone elastomer) Silicone See compliance details in Material Specification document
Surface Quality of Steel	Ra < 0.4 µm (N5)
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	Material and Performance Test Certificate
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	Yes
CIP	Yes
Steam Sterilizable	Yes

Operating Temperature Range 0 to 130 °C

Pressure Range bar g 0 to 12 bar

Max. CO₂ Partial Pressure 0.01 bar

Required Flow ≥ 0.1 m/s

Specifications are subject to change without notice

Spec. Version B

<https://www.hamiltoncompany.com/process-analytics/sensors/237395>