



# OXIGRAF

## MODEL O2C/D OXYGEN ANALYZER



### FEATURES:

- **Rugged laser diode** absorption spectroscopy oxygen analysis.
- **Samples and displays oxygen from 5 to 100%** without range switching.
- **Corrects** measurement for pressure and temperature changes automatically.
- **Calibrates** electronically using 21 and 100% cal gases.
- **No false oxygen readings** with Ar, H<sub>2</sub>O, CO<sub>2</sub>, CO, or hydrocarbons.
- **Visual, audible, and remote alarms** for 2 oxygen levels and for low flow.
- **Analog 4 to 20 mA**, analog 0 to 1 VDC, and digital RS-232 outputs.
- **Internal pressure regulator** accepts inlet pressures from 1 to 75 psig.
- **Electronic flow meter and display** included.
- **Measures at low flows** of 50 to 500 ml/min, conserving product gas.
- **Responds quickly** (1 second) for prompt analysis.
- **Pressure regulator:** specify Model O2C.
- **Internal sampling pump:** specify Model O2D.

### APPLICATIONS:

- Oxygen generator (pressure swing adsorption) and oxygen concentrator performance monitoring. Relay contacts can be used to control a back-up oxygen supply. Performance documents can be created.

---

Oxigraf, Inc.; 238 E. Caribbean Dr.; Sunnyvale, CA 94089

Tel: 650-237-0155 Fax: 650-237-0159

E-mail: sales@Oxigraf.com Web-site: <http://www.oxigraf.com>



# OXIGRAF

## SPECIFICATIONS:

Range:	5 to 100%
Resolution:	0.1%
Stability (24hrs):	± 0.3%
Sample Flow:	50 to 500 ml/min (user controlled).
Response Time:	1 s @ 350 ml/min flow (electronic Filter 6).
Linearity:	±0.2%.
Cross-Sensitivity:	±0.2%, any gas mixture. (XC mode: cross- sensitivity corrected. LN mode available for more precise oxygen measurements from 97 to 100%.)
Alarms (4):	Low O <sub>2</sub> , high O <sub>2</sub> , low flow, and system check.
Relay Contacts (4):	Form C (SPDT), 5 A 250 VAC rating.
Analog output:	4 –20 mA programmable from front panel.
Analog Output:	0 – 1 V.
Operating Temp:	0 to 40°C ambient, 0 to 45°C gas.
Dimensions:	7.5 x 2.75 x 10.0 inches (190 x 76 x 330 mm) WxHxD.
Weight:	5 pounds (2.25 kg).
Power Input:	100 –250 V, 0.38 A, 50 – 60- Hz to 12 V power converter supplied; or 12 V, 1.5 A battery not supplied.
Sample Inlet:	CPC elbow quick connect 1/8-inch hose barb standard.
Tubing supplied:	4' of 1/8 x 1/4" flexible polyurethane tubing.
Software:	Plot and Graph routines for Excel spreadsheets.
Warranty:	One-year repair or replacement limited warranty



**Oxigraf, Inc.; 238 E. Caribbean Dr.; Sunnyvale, CA 94089**

**Tel: 650-237-0155 Fax: 650-237-0159**

**E-mail: sales@Oxigraf.com Web-site: <http://www.oxigraf.com>**



# OXIGRAF

**Gas Sampling:** Gas samples may be introduced through the sample inlet located on the front panel of the instrument. The Model O2C and O2D differ in gas sampling schemes. The Model O2C has a pressure relief valve and flow restrictor to accommodate inlet pressures from 1 to 75 psi. The Model O2D includes a sampling pump that will draw a sample from atmospheric pressure; with an external flow control valve, it will accommodate pressurized gas up to 1.3 psig (17 psia or 120 kPa).

Model	O2C: Pressure Regulator	O2D: Gas Sampling Pump
Inlet Pressure	1 to 75 psig	0.03 to 1.3 psig
Flow Rate	0 to 500 ml/min	0 to 250 ml/min pump on; 0 to 500 ml/min pump off.
Time response	1 second at 350 ml/min, electronic Filter setting 0 to 6.	150 ms at 250 ml/min, electronic Filter setting 0 to 3.

**Mounting holes:** (4) 10-32 tapped holes on 3.5" x 5" pattern centered on 7" x 9" base plate.

CAUTION: ELECTRICAL HAZARD. MAXIMUM SCREW INTRUSION FROM BASE SURFACE: 0.25":

### **Terminal Strip Pin Assignments:**

- 1 O2 A Common
- 2 O2 A NC
- 3 O2 A NO
- 4 O2 B Common
- 5 O2 B NC
- 6 O2 B NO
- 7 Low Flow Common
- 8 Low Flow NC
- 9 Low Flow NO
- 10 System Check Common
- 11 System Check NC
- 12 System Check NO
- 13 No connection.
- 14 4 - 20 mA current source output.
- 15 4 - 20 mA current return (ground).

---

**Oxigraf, Inc.; 238 E. Caribbean Dr.; Sunnyvale, CA 94089**

**Tel: 650-237-0155 Fax: 650-237-0159**

**E-mail: sales@Oxigraf.com Web-site: <http://www.oxigraf.com>**