Tabletop Oxygen Analyzer for Air Separation Monitoring

Item # 07-0158 Model O2C

Item # 07-0168 Model O2D

The Models O2C and O2D are general purpose oxygen analyzers for research, air separation monitoring, and industrial monitoring applications. Designed to measure oxygen in a range of 5-100% accurately and in the presence of other gasses such as including Ar, He, H2, CO2 and non-condensing H2O vapors. The Model O2C features an internal pressure regulator to connection to 1-75 psig source and the Model O2D features a sampling pump for flow control.

Features

Self-Calibrating Oxygen Analysis for Continuous Monitoring

The Model O2 C and D analyzers provide high-precision oxygen measurement designed for air separation, industrial gas production, aerospace research, and laboratory applications. Using laser diode absorption technology, these analyzers deliver ultra-fast response times, exceptional accuracy, and long-term stability for real-time oxygen purity monitoring. Their versatile design, multiple sampling options, and reliable performance make them essential tools for industries requiring continuous, high-purity oxygen analysis.

Optimized for Air Separation & Industrial Gas Production

The Model O2 C and D analyzers play a critical role in air separation and industrial gas applications, ensuring that oxygen purity meets precise specifications before distribution or further processing. These analyzers provide real-time monitoring of oxygen concentration in cryogenic air separation, membrane-based O_2 generation, and pressure swing adsorption (PSA) systems, optimizing efficiency and reducing losses.

Ultra-Fast Response Time for Process Control

With a sub-150 millisecond response time, these analyzers provide near-instantaneous oxygen concentration measurements, allowing quick adjustments in air separation plants, industrial gas pipelines, and aerospace test facilities. Rapid feedback ensures optimal process control and quality assurance.

High Accuracy and Long-Term Stability

Delivering oxygen concentration readings with ±0.2% accuracy, the Model O2 C and D analyzers ensure consistent and precise measurement over extended periods. Laser diode technology eliminates sensor drift, reducing the need for frequent recalibration and ensuring stable operation in continuous production environments.

Versatile Sampling for Air Separation & Industrial Applications

Designed for both extractive and inline sampling, these analyzers can measure oxygen concentrations in high-pressure pipelines, low-flow gas streams, and cryogenic systems. Their ability to operate in dynamic environments with variable gas compositions makes them ideal for air separation units, gas production facilities, and industrial quality control.

Multiple Output Options for Seamless System Integration

Equipped with analog (0-1V DC, 4-20mA) and digital (RS-232) outputs, the Model O2 C and D analyzers integrate effortlessly into air separation plants, industrial automation systems, and aerospace testing platforms. These flexible communication options enable real-time monitoring and remote system control, improving process efficiency and safety.

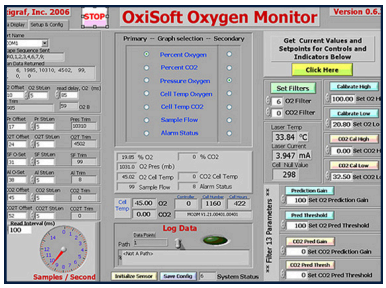
Accessories

Calibration Kit

Two Regulator Valves, two tanks of calibrating gases (21.00 and 99.99% +/- 0.05%) with Cal Kit Tubing Assembly and hard plastic carry case. (35 Liter bottles: approx 100 calibrations.

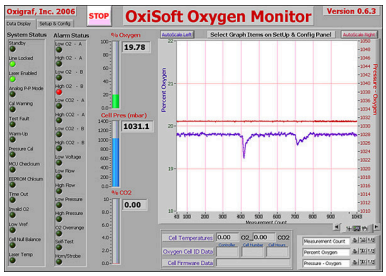
Sensor Inlet Filter

PTFE moisture barrier/dust barrier for sensor, no fittings . (Package of 5). 25MM (package of 1)



OxiSoft Software

Oxisoft is a graphical oriented tool for controlling and displaying Oxigraf oxygen analyzers. Data logging of concentration, temperature and pressure for both oxygen and CO2. Dual panels. One panel for Data Display and one for setup and configuration.



Tabletop Oxygen Analyzer for Air Separation Monitoring

Item # 07-0158 Model O2C
Item # 07-0168 Model O2D

Technical Data

Performance Conditions	
Ambient Temperature (Operating)	5 to 40 °C 40 to 102 °F
Ambient Temperature (Storage)	-20 to 60 °C -2 to 140 °F
Cell Pressure	10.2 to 17.4 psia 70 to 120 kPascal 500 to 900 mmHg
Warm-up for Full Accuracy	10 min
Altitude	Two pt calibration required after change in altitude of 2000 feet
Humidity	0 to 95% non-condensing
Performance Specifications	
Range	5 to 100%
Modes	Model O2 C- XC Model O2 D- XC+LN
Pump	Model O2 D (Only)
Pressure Regulator	Model O2 C- (Only)
Inlet Fittings	CPC O-ring
Resolution	0.1%
Accuracy - Stability (8 Hrs)	±0.2% in LN mode (nitrogen mixtures only). ±0.4% in XC mode (O2 D only)
Input Pressure	Model O2 C - 1 to 75 psig Model O2 D - -0.03 to 1.3 psig
Flow (Using Pump)	Model OC - 50 to 500 ml/min adjustable. Model O2 D - 0 to 250 ml/min pump on 50 to 500 ml/min pump off
Response Time	Model OC - 1 second at 350 ml/min, electronic Filter setting 0 to 6. Model O2 D- 150 ms at 250 ml/min, electronic Filter setting 0 to 3
Sample Inlet	CPC O-ring quick connects, 1/8 “ flex tubing barbs std.
Analog Output	0 to 1.0 volts for 0 to 100% oxygen, 1.00K - 1% output resistance
Digital Output	RS232: 9600 baud default, 8 bit, no parity
Electrical Specifications	
Power Requirements	Voltage (DC)- 12 V, Current- 1.5 A
External Power Supply	95 to 250 VAC, 47 to 63 Hz
Mechanical Specifications	
Dimensions (W x H x D)	Model O2 C, D - 7.5x3.0x11.0 in190x76x280 mm Model O2 DAL (S) - 7.5x3.0x14.0 in190x76x356 mm
Weight Instrument	4 Pound1.8 Kilogram