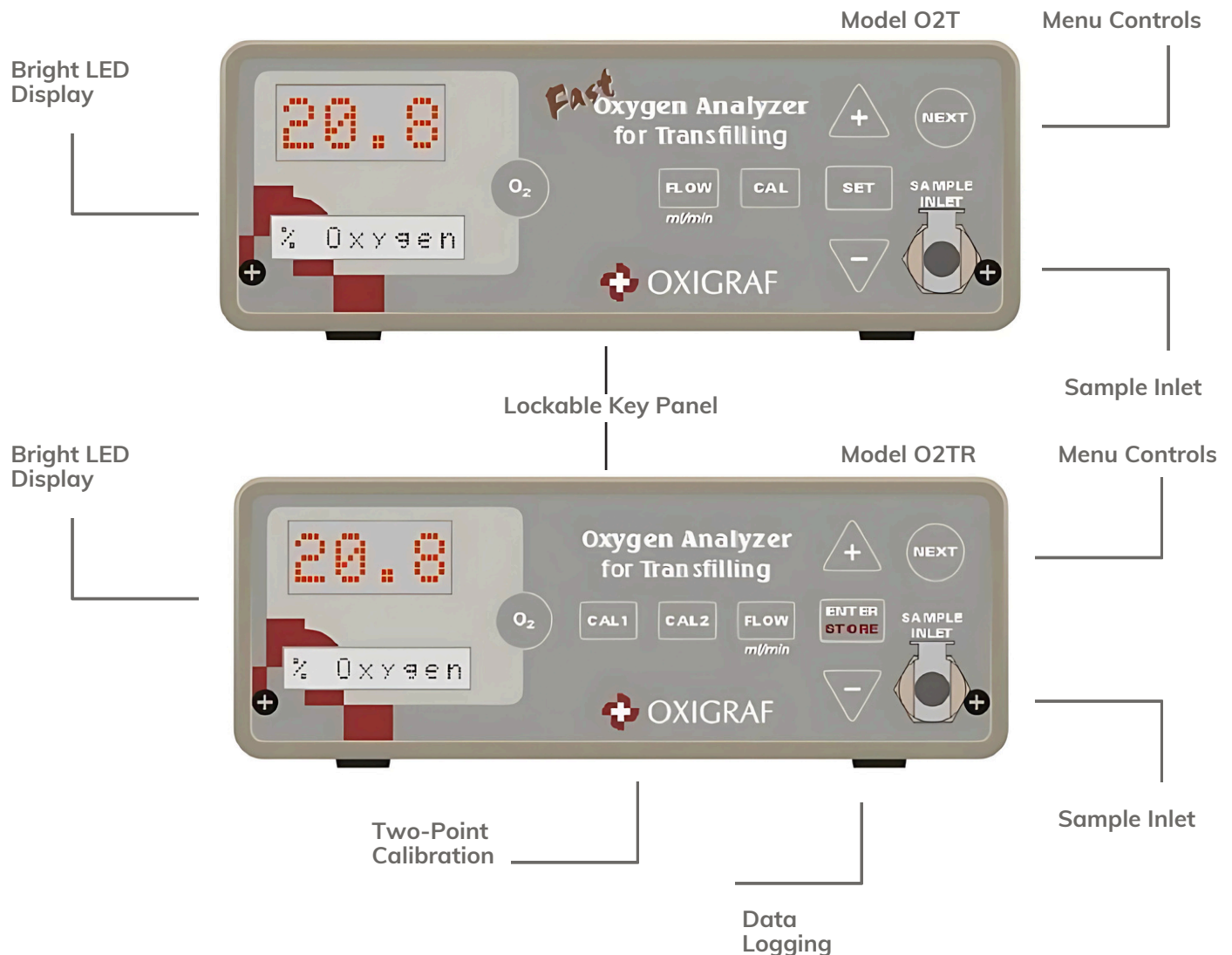




Item # 07-0031 Model O2T and O2TR* Oxygen Analyzers

The Model O2T and O2TR are oxygen analyzers for medical oxygen trans-filling and verification and designed for measuring 5-100% oxygen in nitrogen. These units are easy to use and feature bright LED displays, touch panel controls, easy calibration, a sample pump or regulator for flow control depending on model, and CPC front panel fittings. The Model O2T has a built-in sampling pump with flow from 0-250ml/minute. The Model O2TR has a built in regulator for flow control and features a simplified two (2) point calibration control on the front panel.



*Item # 0140 for Model O2 TR

Features

High-Purity Oxygen Analyzer

The Model O2T and O2TR analyzers are approved for medical oxygen transfilling, providing high-precision oxygen measurement to ensure compliance with stringent medical gas standards. Capable of measuring 5% to 100% oxygen concentrations, these units are designed for research, industrial, and safety applications, offering fast response times, high accuracy, and an integrated sampling pump for real-time oxygen analysis in critical environments. The O2TR model includes a built-in data recording function, allowing users to log oxygen levels over time for documentation, compliance, and process optimization.

Approved for Medical Oxygen Transfilling

The Model O2T and O2TR meet medical-grade oxygen transfilling requirements, making them an essential tool for oxygen suppliers, medical gas distributors, and healthcare facilities. These analyzers ensure that oxygen purity meets medical standards before it is transferred into patient-use cylinders, preventing contamination and ensuring safety in clinical applications.

Fast & Accurate Oxygen Measurement

The Model O2T and O2TR use laser diode absorption technology to deliver precise oxygen concentration readings with an accuracy of $\pm 0.2\%$ and a response time of less than 150 milliseconds at a 250 mL/min flow rate. This ensures immediate detection of oxygen fluctuations, improving process stability, regulatory compliance, and workplace safety.

What Makes the Model O2 TR Model Different than the T?

The Model O2TR includes built-in data recording (TR = "T with Recording"), allowing users to log and store oxygen concentration measurements directly within the device. This feature is ideal for applications requiring trend analysis, compliance documentation, or process optimization, as users can retrieve stored data for further review without needing an external data logging system. The two-point calibration function, visible on the display, ensures high measurement accuracy at different oxygen concentrations, making it easy for users to confirm sensor reliability and maintain compliance with regulatory standards.

Multiple Output Options for System Integration

The Model O2T and O2TR support both analog (0-1V DC, 4-20mA) and digital (RS-232) outputs, providing flexibility for integration with automation systems, process controls, and laboratory data acquisition platforms. The O2TR model additionally enables data logging and storage, allowing users to track oxygen trends over time.

Accessories



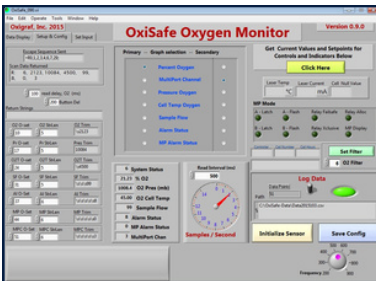
Calibration Kit

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)



OxiSafe Software

Oxisafe is a control and status monitoring application for the Oxigraf Model O2iM Oxygen Deficiency Monitor. Useful in control room applications, Oxisafe provides a complete remote monitoring and control suite for the single or multiple O2iM units. Oxisafe provides a graphical interface for displaying O2 levels, unit status, and control of the O2iM units from a remote location over the RS-232/485 interface.

Technical Data

Item # 07-0031 Model O2T and O2TR* Oxygen Analyzers

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 psi 70 to 120 kPascal 500 to 900 mmHg
Warm-up for Full Accuracy	5 min
Altitude	Two point calibration required after change in altitude of 2000 feet
Humidity	0 to 95% non-condensing
Performance Specifications	
Range	5 to 100%
Resolution	0.1%
Accuracy - Stability (8 Hrs)	±0.2% after 5 minute warm up in LN mode (nitrogen) ±0.4% after 5 minute warm up in XC mode
Input Pressure	Model T - -0.03 to 1.3 psi Model TR- 1 to 75 psi
Flow (Using Pump)	50 to 250 ml/min adjustable.
Response Time	Model T- 400 ms @ 200 ml/min flow Model TR- 400ms @ 400 ml/min flow both at (@ electronic filter setting of 7)
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)	7.5 x 3.0 x 11.0 in 190 x 76 x 280 mm
Weight Instrument	Instrument 5 lbs (2.3Kg), power module 1.5 lbs (0.7Kg)

