ALPHA OMEGA INSTRUMENTS
a Process Insights Brand

SERIES 2520

Percent Oxygen Analyzer

Product shown with optional flow meter

FEATURES	BENEFITS
State-of-the-Art Sensor Technology	High Precision Measurements
Light Weight/Compact Design	Easy to Carry and Transport
Rapid Speed of Response	Senses Oxygen Changes in Seconds
Built-in NICAD Batteries	Provides Hours of Continuous Operation
Uses Standard NICAD's	Replacement Batteries Found World-Wide
Minimum Maintenance	Low Cost of Ownership
Factory Calibration	Factory Calibration and Certificate Included at No Additional Charge.

System Description

The Series 2520 Portable Percent Oxygen Analyzer is a light-weight, easy-to-use analyzer that provides accurate and repeatable percent oxygen measurements in a variety of gases. The rugged and compact design of the Series 2520 makes it ideal for industrial applications where spot oxygen measurements need to be made.

The Series 2520 can be configured with one of several measuring ranges from 0-2% to 0-100% oxygen. The standard Series 2520 Portable Percent Oxygen Analyzer is equipped with a 3-1/2 digit liquid crystal display, built-in NICAD batteries, and a universal AC adapter that provides the ability to recharge the NICAD batteries even while powering the analyzer from the adapter.

The Series 2520 Portable Percent Oxygen Analyzer features an extended life oxygen sensor with EES (Enhanced Electrolyte System) that provides exceptional measurement accuracy and stability. For applications where carbon dioxide is present in the sample gas, the EES retards passivation of the sensor anode by allowing the products of oxidation to dissolve in the electrolyte. In effect, the sensor is renewed continuously, resulting in an increase in sensor life. The output from the sensor is temperature compensated.

Depending on the application, the Series 2520 can be equipped with a number of options including; sample filters, sample pumps, pressure regulators, and flow meters, etc.

Specifications

PERFORMANCE

Measurement Ranges: (Percent Oxygen)	0-2 0-5 0-10 0-20 0-25 0-50 0-100
Accuracy:	±1% of full scale (± 5% of full scale on ranges ≤ 0-5%)
Linearity:	±1% of full scale
Response Time:	90% of full scale in <20 seconds
Sensor Type:	Electrochemical
Temperature Compensation:	Standard
Operating Temperature Range:	40° to 104°F (5° to 40°C)
Warranty:	2 years electronics/1 year sensor

ELECTRICAL

Display:	3-1/2 digit liquid crystal display
Power Source:	Rechargeable NICAD batteries with universal (90-240 VAC) AC adapter
Analog Output:	Not available

SAMPLE GAS CHARACTERISTICS

Sample Flow Rate:	1.0 to 2.0 SCFH (0.5 to 1.0 liters/min)
Sample Gas Temperature:	40° to 104°F (5° to 40°C)
Sample Gas Pressure:	0.1 to 1.5 psig (0.007 to 0.1 kg/cm^2)

CONSTRUCTION

Enclosure:	Polycarbonate-rated NEMA 1
Dimensions:	5.8 in. (147.3 mm) Height 6.7 in. (170.2 mm) Width 3.4 in. (86.4 mm) Depth Note: All dimensions are without optional equipment
Gas Connections:	Quick connect
Weight:	<2 pounds (<0.907 kg)

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