

PRODUCT DATASHEET

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 |
| (Percent Oxygen) | 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 liter/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 |
| Gas Connections: | Quick connect |
| Weight: | <2 pounds (<0.907 kg) |

* Note: All dimensions are without optional equipment

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