



# 700 LX Series Oxygen Analyzer



- New Electronics
- User-Friendly Operation
- New, More Powerful Operating System
- Proven Analytical Components
- Remote Emulation/Control Software TCP/IP

## Features

- Measures Oxygen from 0-1% up to 0-100%
- Paramagnetic or Fuel Cell Technologies
- Auto Calibration and Ranging
- Fast Response Time
- Temperature and Pressure Compensation
- Robust and Rugged Linux Based Operating System
- Remote Operation and Control by External Device via RS-232, TCP/IP, or Digital Inputs
- Comprehensive Diagnostics
- Standard Outputs: Voltage, Current, RS-232 AK Protocols, TCP/IP, MODBUS or AK Protocols
- CE Mark and ETL Listed—Conforms to UL STD 61010-1, Certified to CAN/CSA C22.2 STD No. 610610.1
- 1065 and ECE 49-06 Compliant

## Applications

- Combustion Efficiency
- Process Gas Analysis
- Fuel Cell Analysis
- Turbine/Generator Feedback Control
- Personnel Safety
- Vehicle Emissions

## Options

- Internal Sample Pump
- Sample Flow Control
- Multiple Sample Streams
- 19 Inch Rack Mount Slides

## California Analytical Instruments

1312 West Grove Avenue, Orange, CA 92865 • Phone: 714-974-5560 • Fax: 714-921-2531  
[www.gasanalyzers.com](http://www.gasanalyzers.com)



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## Method of Operation

The California Analytical Instruments oxygen analyzer section utilizes either the paramagnetic or fuel cell method to determine the percent level of oxygen contained in the sample gas.

The oxygen level is displayed on the LCD panel in percent concentration.

## Specifications

Resolution: Typically 0.1% of Full Scale  
Repeatability: Better than 1.0% of Full Scale  
Linearity: Better than 1.0% of Full Scale  
Noise: Less than 1% of Full scale  
Zero & Span Drift: Less than 1% of Full Scale per 24 Hours  
Zero & Span Adjustment: Via front panel, TCP/IP or RS-232  
Sample Flow Rate: 0.5 to 2.0 LPM  
Oxygen Analysis Method: Paramagnetic or Fuel Cell  
O<sub>2</sub> Ranges: 0-1% (Paramagnetic Only) up to 0-100% O<sub>2</sub> Full Scale, Four Definable Ranges  
O<sub>2</sub> Response Time: T<sub>90</sub>—5 Seconds Paramagnetic, 16 Seconds Fuel Cell  
Standard Outputs: Voltage, Current, RS-232 AK Protocol, TCP/IP MODBUS and AK Protocol  
Discrete Control: Remote/Local Control, Range Change, Range Sense Mode  
Discrete Alarms/Control: 15 Definable Optically Isolated  
Solid State Relays (60 VDC Max @ 600 mA Max)

Digital Diagnostics: Pressure – Pressure Control Voltages  
Temperatures – Flow Parameters  
Keypad Displays: Factory Settings, TCP/IP address, Passwords(4), Scalable Analog Output Voltages, Full Scale Range Select, Auto Cal Times  
Special Features: Auto Ranging, Data Archiving, Auto Calibration (adjustable through internal clock)  
Display: 3" x 5" Back lit LCD LED  
Sample Temperature: Up to 50 C, (Non-condensing)  
Ambient Temperature: 5 to 40 C  
Ambient Humidity: Less than 90% RH (Non-condensing)  
Fittings: ¼ inch Tube  
Power Requirements: 115/230 (+/- 10%) VAC; 50/60Hz, 300 watts maximum  
Dimensions: 5¼"Hx19"Wx23"D  
Weight: 30-45 lbs. (Depending on configuration)

Specifications subject to change without notice.

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