

600P & 600F

SERIES

OXYGEN



Oxygen Analyzer

APPLICATIONS

- Stack Gases (CEM)
- Combustion Efficiency
- Turbine/Generator Feedback Control
- Process Chemical Gas Analysis
- Personnel Safety
- Fuel Cell Analysis
- Vehicle Emissions

OPTIONS

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

FEATURES

- Measures Oxygen from 0-1% up to 0-100%
- Up to Four User-Definable Ranges Per Channel
- CE Mark and ETL Listed—Conforms to UL STD 61010-1, Certified to CAN/CSA C22.2 STD No. 610610.1
- Auto Calibration and Ranging
- Fast Response Time
- Temperature and Pressure Compensation
- Comprehensive Diagnostics
- Output Options: Voltage, Current, RS-232, TCP/IP
- Remote Monitoring and Control
- Data Archiving



1312 West Grove Avenue
Orange, CA 92865-4134
Phone: 714-974-5560 Fax: 714-921-2531
www.gasanalyzers.com

600P & 600F Series O₂ Analyzer

OXYGEN

DESCRIPTION

The California Analytical Models 600p & 600F digital analyzer product line is designed around a state of the art 16 bit microprocessor, with 16 digital inputs, 16 digital outputs, 16 analog inputs and 4 analog outputs. The analyzer can be manually operated from the keypad or remotely via TCP/IP, RS-232C communications and discrete inputs. The analyzer display includes screen presentation of all analyzer alarms. Four levels of password protection are provided. For precision measurements, the analyzer's accuracy is increased by entering calibration curve fit polynomials. Automatic calibration may be activated locally or remotely and includes auto calibration via preset times.

METHOD OF OPERATION - Oxygen

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 of Factory Calibrated Ranges

Noise: Less than 1% of Full scale of Factory Calibrated Ranges

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

O₂ Ranges: 0-1% (Paramagnetic Only) up to 0-100% O₂ Full Scale, Four Definable Ranges

O₂ Response Time: T90—2 Seconds Paramagnetic, 16 Seconds Fuel Cell

600 Series Features:

Outputs available: TCP/IP, RS232, 0-1, 0-5, 0-10, VDC, 4-20mA (Selectable)

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, Auto Calibration (adjustable through internal clock), Data Archiving

Display: 3" x 5" Back lit LCD

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 VAC/60 Hz or 230 VAC/50Hz

Dimensions: 5¼"Hx19"Wx23"D

Weight: 25-35 lbs. (Depending on configuration)

Specifications subject to change without notice.



1312 West Grove Avenue
Orange, CA 92865-4134
Phone: 714-974-5560 Fax: 714-921-2531
www.gasanalyzers.com