



# Combustion Gas Analyzers



## Combustion Gas Analyzers Models CGA Series 810 and Model 823

Rugged, reliable Alnor Combustion Gas Analyzer kits are available for oil, gas, and bio-fuel systems. They supply real-time data for tuning and preventive maintenance monitoring of burners on furnaces, boilers and other heating appliances. Factory-calibrated sensors provide easy field replacement in just minutes. No need to return to the factory for routine service.

*Rugged. Reliable. Professional.*

### Features and Benefits

- Precalibrated replacement sensors
- Automatic O<sub>2</sub>, baseline and auto zeroing of sensors
- 12- to 24-hour battery life
- Sensors easily recalibrated in the field
- Sample averages calculated automatically
- Models are available to measure O<sub>2</sub>, CO, NO, NO<sub>x</sub>, CO<sub>2</sub>, efficiency, draft pressure, differential pressure and temperature (stack and ambient)

### Applications

- Perform critical safety checks
- Measure Carbon Monoxide
- Supplement preventive maintenance
- Monitor NO<sub>x</sub> output

**Also Available CGA-812-OH**  
*Oil Heat Combustion Analyzer Kit with Smoke Pump*



# Combustion Gas Analyzers

## CGA Series 810 and Model 823

### Specifications

Models CGA Series 810 and Model 823

#### Sensors

##### Oxygen (O<sub>2</sub>)

Range 0 to 25%  
Resolution 0.1% O<sub>2</sub>

##### Carbon Monoxide (CO)

Model CGA-801 and Series CGA-810 (except CGA-812)

Range 0 to 9,999 ppm  
Resolution 1 ppm

##### Carbon Monoxide (CO)

Model CGA-823

Range 0 to 5,000 ppm  
Resolution 1 ppm

##### Nitric Oxide (NO)

Model CGA-823

Range 0 to 4,000 ppm  
Resolution 1 ppm

##### Flue Gas Temperature Probe

Resolution 1°F (1°C)  
Continuous 1,800°F (1,000°C)

##### Draft Pressure

Range ±30 in. H<sub>2</sub>O (±80 mBar)  
Resolution 0.01 in. H<sub>2</sub>O (0.01 mBar)

#### Operating Conditions

##### Instrument Temperature Range

Operating Range 32 to 113°F (0 to 45°C)  
Storage Range -22 to 140°F (-30 to 60°C)

#### CGA-801 and Series CGA-810

##### External Dimensions

4.5 in. x 7.5 in. x 2.5 in. (11.4 cm x 19.1 cm x 6.4 cm)

Weight with Probe 1.2 lbs/1.4 lbs (0.54/0.64 kg)

Display LCD

##### Power Requirements

4 AA size alkaline batteries

Battery Life >12 hours with pump on

#### CGA-823

##### External Dimensions

6 in. x 10 in. x 2.5 in. (15 cm x 25.4 cm x 6.4 cm)

Weight with Probe 2.5 lbs/3.2 lbs (1.12/1.44 kg)

Display LCD

##### Power Requirements

4 C size alkaline batteries

Battery Life >24 hours with pump on

#### Replacement Electrochemical Gas Sensors

802006 Carbon Monoxide (CO) Sensor (0–1%)  
Models CGA-801, CGA-811, CGA-813, CGA-814

802007 Nitric Oxide (NO) Sensors  
Model CGA-823

802012 Oxygen (O<sub>2</sub>) Sensor  
Models CGA-812, CGA-813, CGA-814, CGA-823

802014 Carbon Monoxide (CO) Sensor (H<sub>2</sub>Comp)  
Model CGA-823

	CGA-801	CGA-811	CGA-812	CGA-812-OH	CGA-813	CGA-814	CGA-823
Carbon Monoxide (CO)	•	•			•	•	H
Oxygen (O <sub>2</sub> )			•	•	•	•	•
Nitric Oxide (NO)							•
NO <sub>x</sub>							•
Carbon Dioxide* (CO <sub>2</sub> )			•	•	•	•	•
Ambient and Stack Temperatures			•	•	•	•	•
Draft Pressure		•				•	•
Efficiency (Loss) (qA), Excess Air (I)			•	•	•	•	•
CO/CQ Index & CO Air Free					•	•	•
Battery Life (hrs)	12	12	12	12	12	12	24
AC Power		O	O	O	O	O	O
Field Replaceable Sensors	•	•	•	•	•	•	•
Field Calibration	•	•	•	•	•	•	•
Water Trap with Rinseable Filter		•	•	•	•	•	•
Water-Stop Filter	•						
Data Storage/Review/Print (Qty)		20	20	20	20	20	100
Factory-Default Fuels			7	7	7	7	7
User-Defined Fuels			1	1	1	1	1
Hard Case	•	•	•	•	•	•	•
Smoke Pump				•			

\*=Calculated from fuel type and O<sub>2</sub> H=Hydrogen compensated O =Optional

Specifications subject to change without notice.



www.alnor-usa.com

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