



Combustion Gas Analyzers



CGA-823



CGA-814



CGA-801

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.

Features and Benefits

- Precalibrated replacement sensors
- Automatic O₂, 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 O₂, CO, NO, NO_x, CO₂, efficiency, draft pressure, differential pressure and temperature (stack and ambient)

Applications

- Perform critical safety checks
- Measure Carbon Monoxide
- Supplement preventive maintenance
- Monitor NO_x output

Also Available CGA-812-OH

Oil Heat Combustion Analyzer Kit with Smoke Pump



Rugged. Reliable. Professional.



Combustion Gas Analyzers

CGA Series 810 and Model 823

Specifications

Models CGA Series 810 and Model 823

Sensors

Oxygen (O₂)

Range 0 to 25%
Resolution 0.1% O₂

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. H₂O (±80 mBar)
Resolution 0.01 in. H₂O (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 (O₂) Sensor
Models CGA-812, CGA-813, CGA-814, CGA-823

802014 Carbon Monoxide (CO) Sensor (H₂ 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 ₂)			•	•	•	•	•
Nitric Oxide (NO)							•
NO _x							•
Carbon Dioxide* (CO ₂)			•	•	•	•	•
Ambient and Stack Temperatures			•	•	•	•	•
Draft Pressure		•				•	•
Efficiency (Loss) (qA), Excess Air (I)			•	•	•	•	•
CO/CO ₂ Index & CO Air Free					•	•	•
Battery Life (hrs)	12	12	12	12	12	12	24
AC Power		0	0	0	0	0	0
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 O₂ H=Hydrogen compensated O=Optional

Specifications subject to change without notice.

Alnor Products, TSI Incorporated - 500 Cardigan Road Shoreview, MN 55126-3996 USA
USA Tel: +1 800 424 7427 E-mail: customerservice@alnor.com



Contact your local Alnor Distributor or visit our website www.alnor.com for more detailed specifications.