

[Alnor® Combustion Gas Analyzers (CGA)]

These affordable, reliable tools 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.



Series CGA-810
Combustion Analyzers



CGA-823
Combustion Analyzer



CGA-801
*Carbon Monoxide
Analyzer*

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

- Models available to measure O₂, CO, NO, NO_x, CO₂, efficiency, draft pressure, differential pressure and temperature (stack and ambient).
- Automatic O₂, baseline and auto zeroing of sensors.
- Factory-calibrated sensors are available for easy field replacement in just minutes. No calibration gas required on initial installation

| Model | Carbon Monoxide (CO) | Oxygen (O ₂) | Nitric Oxide (NO) | NO _x | Carbon Dioxide* (CO ₂) | Ambient and Stack Temperatures | Draft Pressure | Efficiency (Loss) (qA), Excess Air (λ) | CO/CO ₂ Index & CO Air Free | Battery Life (hrs) | AC Power | Field Replaceable Sensors | Field Calibration | Water Trap with Rinseable Filter | Water-Stop Filter | Data Storage/Review/Print (Qty) | Factory-Default Fuels | User-Defined Fuels | Hard Case | Smoke Pump (1702076) | |
|-------------------|----------------------|--------------------------|-------------------|-----------------|------------------------------------|--------------------------------|----------------|----------------------------------------|----------------------------------------|--------------------|----------|---------------------------|-------------------|----------------------------------|-------------------|---------------------------------|-----------------------|--------------------|-----------|----------------------|---|
| CGA-801 | ● | | | | | | | | | 12 | | ● | ● | | ● | | | | | ● | |
| CGA-811 | ● | | | | | | ● | | | 12 | ○ | ● | ● | ● | | 20 | | | | ● | |
| CGA-812 | | ● | | | ● | ● | | ● | | 12 | ○ | ● | ● | ● | | 20 | 7 | 1 | | ● | |
| CGA-812-OH | | ● | | | ● | ● | | ● | | 12 | ○ | ● | ● | ● | | 20 | 7 | 1 | | ● | ● |
| CGA-813 | ● | ● | | | ● | ● | | ● | ● | 12 | ○ | ● | ● | ● | | 20 | 7 | 1 | | ● | |
| CGA-814 | ● | ● | | | ● | ● | ● | ● | ● | 12 | ○ | ● | ● | ● | | 20 | 7 | 1 | | ● | |
| CGA-823** | H | ● | ● | ● | ● | ● | ● | ● | ● | 24 | ● | ● | ● | ● | | 100 | 7 | 1 | | ● | |

*=Calculated from fuel type and O₂ H=Hydrogen compensated ○=Optional
 **Custom length probe/hose assemblies available.

Alnor® Combustion Gas Analyzers

specifications

| | | CGA-823 | Series CGA-810 | CGA-801 |
|----------------------------|--------------|----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| sensors | | | | |
| Oxygen (O ₂)* | RANGE | 0–25% | 0–25% | |
| | RESOLUTION | 0.1% O ₂ | 0.1% O ₂ | |
| Carbon Monoxide (CO)* | RANGE | 0–5,000 ppm | 0–2,000 ppm | 0–2,000 ppm |
| | RESOLUTION | 1 ppm | 1 ppm | 1 ppm |
| Nitric Oxide | RANGE | 0–4,000 ppm | | |
| | RESOLUTION | 1 ppm | | |
| Flue Gas Temperature Probe | RESOLUTION | 1°F (1°C) | 1°F (1°C) | |
| | CONTINUOUS | 1,800°F (1,000°C) | 1,800°F (1,000°C) | |
| general data | DIMENSIONS | 6 x 10 x 2.5 in. (15 x 25.4 x 6.4 cm) | 4.5 x 7.5 x 2.5 in. (11.4 x 19.1 x 6.4 cm) | 4.5 x 7.5 x 2.5 in. (11.4 x 19.1 x 6.4 cm) |
| | WEIGHT | 2.5 lbs/3.2 lbs with probe (1.12/1.44 kg) | 1.2 lbs/1.4 lbs with probe (0.54/0/64 kg) | 1.2 lbs/1.4 lbs with probe (0.54/0/64 kg) |
| | DISPLAY | LCD | LCD | LCD |
| | POWER | four C-size alkaline batteries | four AA-size alkaline batteries | four AA-size alkaline batteries |
| | BATTERY LIFE | >24 hours with pump on | >12 hours with pump on | >12 hours with pump on |

*Electrochemical Sensors