

North American Post Combustion Portable O₂ Analyzer

FEATURES

- Completely portable--weight 2½ lbs
- Accurate
- Exclusive self-draining moisture trap with sight glass to protect sensor
- Low battery light
- No chemicals required
- Particulate trap has a reusable sponge filter to protect sensor
- Automatically calibrates for easy adjustment



North American's 8108-O puts you on the leading edge of post combustion oxygen analysis technology. The 8108-O is accurate, lightweight, and completely portable. Its exclusive self-draining moisture trap protects the oxygen cell, yet avoids the use of cumbersome and expensive in-line filters.

Simply insert the stainless steel probe into the flue and depress the start button.* The sample is automatically taken and displayed on the unit's easy to read digital display window. Accuracy is $\pm 0.2\%$. Continuous sampling and reading is also possible.

The compact design of the North American 8108-O makes it easy to handle and operate. It measures only 5.5" high x 3.5" wide x 1.5" deep, weighs only 2.5 pounds, and is easily held in one hand. The stainless steel probe retracts for easy storage.

The 8108-O requires no expensive or messy chemicals, has a reusable sponge filter and a self-draining water trap and is powered by four AA batteries.

The 8108-O comes with protective carrying case, oxygen sensor, batteries, 4 ft. long extension tubing and belt pouch.



Complete with protective carrying case and accessories.

*For flue temperatures above 800 F, a probe extension whose total length does not exceed 8 feet is recommended.



Oxygen Measurement Range: 0-25% Oxygen volume Resolution: 0.1% Accuracy: ±0.2%	Dimensions 5.5" x 3.5" x 1.5"
Sample Time Approx. 30-35 sec.	Weight 2½ lb including oxygen cell and batteries
Display Time 30 seconds	Electrical Requirements Four AA alkaline batteries (included)

DESCRIPTION

Power/Mode Selector Switch

This switch provides two modes of operation. When switch is in "CAL" position, 8108-O provides continuous sensing and readout, when switch is in "ON" position, the 8108-O takes a timed sample of flue gas and displays percentage of oxygen for 30 seconds after sample button is pushed.

Auto Calibration Feature

8108-0 will automatically calibrate itself. Process takes approximately 5 minutes.

Display Window

Percentage of oxygen is displayed numerically by LED's.

Start Switch

When mode switch is in the "ON" position, start switch is depressed to activate sampling sequence. Reading is displayed for 30 seconds. Readings may be continuous or sampled as desired by the user.

Probe

Stainless steel sampling probe conveniently folds away when not in use. (Probe extension is recommended at flue temperatures above 800 F.)

Filter Cap

Unscrew cap to change or clean filter as required. Cap should be hand tightened only.

Low Battery Light

Low battery light signals need to replace batteries.

Water Trap Sight Window

Sight glass provides visual indication of excess moisture build up. When moisture reaches red stripes, discontinue use of 8108-O and empty trap. Automatic drain should not be plugged.

Automatic Water Trap Drain

During operation, drain automatically discharges moisture. It is normal to feel a slight stream of air coming from drain during operation. Leave drain uncovered during operation.

 **WARNING: DO NOT** use in an explosive atmosphere. Personal injury could result!

 **WARNING:** The 8108-O is designed strictly for post combustion analysis. **DO NOT** sample pre-mix gas or other known combustible fuel. This could result in a dangerous situation.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of any combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American Combustion, Inc. urges compliance with National Safety Standards and Insurance Underwriters' recommendations, and care in operation.