



C100ACOPBX

Combustion Efficiency Analyzer

GET THE ADVANTAGE IN COMBUSTION EFFICIENCY

- **Measures**
 - O₂
 - CO
 - Differential Pressure
 - Stack & Ambient Temperature
- **Calculates**
 - CO₂
 - Gross/Net Efficiency
 - Excess Air
- **Record 99 tests**
- **Backlit LCD**
displays 3 parameters at once
- **Infrared Printer Port**
print to an optional printer



C100ACOPBX • Combustion Efficiency Analyzer

The C100ACOPBX enables HVAC professionals to test and service all residential combustion appliances as well as diagnose and repair heating equipment. Equipped with the professional accuracy expected in today's combustion efficiency analyzers, the C100ACOPBX also has convenient features to streamline the task at hand. Like the extra large backlit LCD which displays three parameters at one time allowing users to make burner adjustments without having to change the instrument settings. The C100ACOPBX can store, retrieve, view and print up to 99 test results, and has an infrared printer port for printing test results on the spot to an optional printer.

The C100A has the following features:

- Measures O₂, CO, differential pressure, stack and ambient temperatures
- Calculates CO₂, gross/net efficiency and excess air
- Poison Index, CO/CO₂ ratio
- Protective boot with integral magnet
- Inlet temperature probe
- Backlit triple display allows technician to view 3 parameters simultaneously.
- 99 memory locations to store and recall test results
- Infrared printer port
- Three year limited warranty on analyzer/two year limited warranty on all sensors

Optional upgrades:

- AC73 - Soft Carrying Case capable of holding C100A/COPBX probe and accessories, optional KMIRP2 printer, and extra printing supplies.
- KMIRP2 - Infrared remote thermal printer
- AC power supply

Standard Accessories:

Particle filter.....17631

Specifications

Parameter	Resolution	Accuracy	Range
Temperature	1°F/°C	±5°F (2°C)	32 - 1112°F
Flue Temperature		±0.3% reading	(0 - 600°C)
Inlet Temperature	1°F/°C	1°F/°C	32 - 212°F
		±0.3% reading	(0 - 100°C)
Temp (Net) ^{*1} 1°F/°C	5°F (2°C)	32 - 1112°F	32 - 1112°F
		±0.3% reading	(0 - 600°C)
Gas Measurement	0.1%	±0.2%	0 - 21%
Oxygen			
Carbon Monoxide ^{*2}	1 ppm	-10 ppm <100 ppm ^{*1}	0 - 2000 ppm
		±5% or reading	4000 ppm max for 15 mins.
Carbon Dioxide ^{*2}	0.1%	±0.3% reading	0 - 30%
Efficiency ^{*2}	0.1%	±1.0% reading	0 - 99.9%
Excess Air ^{*2}	0.1%	±0.2%	0 - 250%
Poison Index ^{*2}	0.1%	±5% reading	0 - 99.9%
CO/CO ₂ ratio ^{*2}	0.001	±5% reading	0 - 0.999
Pressure (differential)	0.004 in WG 0.01 in WG 1.0 mbar	±1% of full scale	0 - 19.999 in WG 20 - 40 in WG 0 - 100 mbar
Pre-programmed Fuels	Natural Gas, Light Oil, Propane, Butane, LPG		
Dimensions			
Weight	2.2 lb. (1 kg)		
Handset	8" (200 mm) x 2" (45 mm) x 3.5" (90 mm)		
Probe	L 12" (300 mm) x D 0.25" (6 mm) with 8" (200 mm) long stainless steel shaft, type K thermocouple and 9 ft. (3 m) long neoprene hose		
Ambient Operating Range	32 - 104°F (0 - 40°C) 10% to 90% RH non-condensing		
Battery Life	Standard "AA" (x4) >8 hours continuous use		
AC adaptor (optional)	Input: 10 V AC / 220 C AC nominal Output: 10 V DC no lead		

*1 Using dry gases at Standard Temperature and Pressure.

*2 Calculated

Optional Accessories:

AC adapter.....AAC44
Infrared printer.....KMIRP2
Paper roll.....16646

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