

C100A

Efficiency Analyzer

- Large backlit, triple display
- Datalog with 99 memory storage
- Protective boot with integral magnet
- Protective hard carrying case included
- Optional infrared printer
- Optional AC power supply
- Three year limited warranty, two years on sensor

The C100A lets HVAC professionals accurately test and service all residential combustion appliances. The extra large LCD displays three data parameters at one time. The backlit display can

be seen even in low-light conditions. Store, retrieve, view and print up to 99 test results.

The optional battery powered printer allows you to document your test results.

The unit can be fitted with an optional CO and/or a differential pressure sensor. These can be added at the time of purchase or return the unit to an authorized service facility to have them fitted later.

C100A: Base unit which includes O₂ and temp.

C100A/CO: Base unit of O₂ and temp, with Carbon Monoxide added.

C100A/COP: Base unit of O₂ and temp, with Carbon Monoxide and Pressure added.



C100A • Efficiency Analyzer (standard with O2 and temp, upgrade to CO and/or Pressure)



The C100A enables HVAC professionals to accurately test and service all residential combustion appliances. The extra large backlit LCD displays three parameters at one time. The C100A can store, retrieve, view and print up to 99 test results. The optional printer allows you to print a copy of all your readings right on the spot to document your test results.

For technicians who are required to diagnose and repair heating equipment, the unit can be fitted with a CO and/or a differential pressure sensor at the time of purchase, or return the unit to an authorized service facility to have them fitted later. As the needs of the owner change, the C100A can fill those needs.

Standard:

- Measures O2, stack and ambient temperatures
- Calculates CO2, efficiency and excess air
- Backlit triple display allows technician to make burner adjustments without having to change the instrument settings
- 99 memory locations to store and recall test results
- Infrared printer port
- Hard carry case capable of holding instrument, optional IR printer, AC adaptor and probe
- Three year limited warranty on analyzer / two year limited warranty on all sensors

Optional Upgrades:

- 0 to 2000 ppm CO sensor * (order as C100A/CO)
- Poison Index, CO/CO2 ratio
- Differential Pressure sensor * (order as C100A/COP)
- Inlet temperature probe
- KMIRP – Infrared remote printer
- AC power supply

Specifications

Parameter	Resolution	Accuracy	Range
Temperature			
Flue Temperature	1°F/°C	± 5°F(2°C) ± 0.3% reading	32-1112°F (0-600°C)
Inlet Temperature	1°F/°C	± 1°F/°C ± 0.3% reading	32-212°F (0-100°C)
Temp (Net) ^{*2}	1°F/°C	± 5°F(2°C) ± 0.3% reading	32-1112°F (0-600°C)
Gas Measurement			
Oxygen	0.1%	± 0.2% ^{*1}	0-21%
Carbon Monoxide ^{*3}	1ppm	±10ppm <100ppm ^{*1} ±5% of reading	0-2000ppm 4000ppm 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*3}	0.1%	±5% reading	0-99.9%
CO/CO ₂ ratio ^{*2*3}	0.001	±5% reading	0-.999%
Pressure (differential) ^{*3}	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	2.2lb (1kg)	
Handset	8" (200mm) x 2" (45mm) x 3.5" (90mm)	
Probe	L 12" (300mm) x Dia 0.25" (6mm) with 8" (200mm) long stainless steel shaft, type K thermocouple and 9ft (3m) long neoprene hose	
Ambient Operating Range		
32-104°F (0°C to 40°C) 10% to 90% RH non-condensing		
Battery Life		
Standard "AA" (x4) >8 hours continuous use		
AC adapter (optional)		
Input: 110VAC/220 Vac nominal Output: 10VDC no load		

*1 Using dry gases at STP

*2 Calculated

*3 Optional

Standard Accessories:

- Particle filter17631

Optional Accessories:

- CO sensor installed at UEi
- Pressure sensor installed at UEi
- AC adapter AAC3
- Infrared printer KMIRP
- Paper roll16646

Distributed By:

Trade Service # — 50429



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