

The background of the advertisement features a stylized American flag with a blue field containing white stars and red and white stripes. A silhouette of an eagle with its wings spread is flying across the sky, which is filled with white clouds. Several white streaks radiate from behind the eagle, suggesting speed and power.

# EAGLE

COMBUSTION ANALYZERS™

 **CALRIGHT  
INSTRUMENTS**

*The Right Source For Your Test & Measurement Needs*

2222 Verus Street Suite C San Diego CA 92154 USA  
Toll Free: 866.363.6634 Tel: 619.429.4645 Fax: 619.374.7012  
Email: [sales@calright.com](mailto:sales@calright.com) <http://www.calright.com>

**COMPLETE SYSTEM ANALYSIS**  
- COMBUSTION, AC, AND CO TESTING -



## C75KIT - Combustion Analyzer Kit:

The C75KIT is a solution for technicians working to set and maintain optimum efficiencies for boilers or furnaces. This kit includes the feature packed **Eagle 1 Combustion Analyzer**. Equipped with a new improved user-friendly interface as well as a DMM style rotary selector, a real time clock and a magnet built-in to the boot, the C75 captures and calculates data with professional accuracy and ease.

### Functions:

- Measures: Flue temperature, oxygen, carbon monoxide (CO)
- Calculates: Carbon dioxide, gross/net efficiency, excess air, CO air free
- Unique DMM style rotary selector
- Protective boot w/integral magnet
- Real time clock
- CO readings to 1 ppm
- Large 2 line back-lit display
- Infrared printer port
- User programmable header
- 20 memory positions
- 3 year limited warranty  
(2 year warranty on sensor)



## Also Available..

### C75 Analyzer

Includes: C75 Analyzer, Flue Probe, Particle Filter, and Manual.



### C750ILKIT

Includes: C75 Analyzer, Flue Probe, Smoke Pump Test Kit, Draft Pressure Gauge, AC Adapter, AC75 Soft Carrying Case, Particle filter, & Owners Guide.



### Kit Includes:

- **Eagle 1 (C75) Combustion Analyzer**
- KMIRP2 Infrared Thermal Printer
- Flue Probe
- AACA4 AC adapter
- AC75 soft carrying case w/protective foam interior
- Particle filter
- Thermal printer paper roll
- Owners guide

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Featuring The New  
**WORKLIGHT**

## C125KIT - Combustion Analyzer Kit:

The C125KIT is 4 instruments in 1. Designed to offer advanced system analysis and productivity this kit includes the ground-breaking **Eagle 2 Combustion Analyzer**. This multi-functional instrument is a superior combustion analyzer with unmatched simplicity and a unique combination of features to enhance a technician's efficiency and safety. The EAGLE 2 is perfect for combustion efficiency analysis but also doubles as a differential thermometer, differential manometer, and an ambient CO detector.

Same features as the EAGLE 1 (C75) Plus:

- Measures: Differential flue temperature, oxygen, flue & ambient carbon monoxide (CO), & Differential Pressure
- Calculates: Carbon dioxide, gross/net efficiency, excess air, & CO air free
- Worklight
- 4 line backlit LCD display
- 179 memory positions
- User customizable parameters view
- Individual report printouts
- 3 year limited warranty (2 year warranty on sensor)



## Also Available..

### C125 Analyzer

Includes: C125 Analyzer, Flue Probe, Particle Filter, AC75 Soft Carrying Case, Quick Start Manual, and Owners Guide.



### C125OILKIT

Includes: C125 Analyzer, KMIRP2 Printer, Flue Probe, Smoke Pump Test Kit, (2) K-Type Temp. Probes, AC Adapter, AC75 Soft Carrying Case, Particle filter, Thermal printer paper roll, Quick Start Manual, & Owners Guide.



### Kit Includes:

- **Eagle 2** (C125) Combustion Analyzer
- KMIRP2 Infrared Thermal Printer
- Flue Probe
- (1) K-Type Temperature Probe
- AACA4 AC adapter
- AC75 soft carrying case w/protective foam interior
- Particle filter
- Thermal printer paper roll
- Quick start manual
- Owners guide

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Featuring The New  
**WORKLIGHT**

## C127KIT - Combustion Analyzer Kit:

The C127KIT offers the same benefits of the Eagle 2 (C125KIT) with the additional ability to measure Nitric Oxide. This allows technicians to work in commercial and light industrial applications measuring Nitric Oxide at 1ppm resolution. The C127KIT offers a complete system analysis solution with clear-cut navigation.

Same features as the EAGLE 2 (C125) Plus:

- Measures: Nitric Oxide (NOx)

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## Also Available..

### C127 Analyzer

Includes: C127 Analyzer, Flue Probe, Particle Filter, AC75 Soft Carrying Case, Quick Start Manual, and Owners Guide.



### C1270ILKIT

Includes: C127 Analyzer, KMIRP2 Printer, Flue Probe, Smoke Pump Test Kit, (2) K-Type Temp. Probes, AC Adapter, AC75 Soft Carrying Case, Particle filter, Thermal printer paper roll, Quick Start Manual, & Owners Guide.



### Kit Includes:

- **Eagle 3** (C127) Combustion Analyzer
- KMIRP2 Infrared Thermal Printer
- Flue Probe
- (1) K-Type Temperature Probe
- AACA4 AC adapter
- AC75 soft carrying case w/protective foam interior
- Particle filter
- Thermal printer paper roll
- Quick start manual
- Owners guide



## Specifications

Features	C75	C125	C127
Worklight		✓	✓
Low battery indicator		✓	✓
Individual print-out reports		✓	✓
Rotary selector	✓	✓	✓
Memory positions (various tests)	20	179	179
Infrared printer port	✓	✓	✓
Backlit display	2 Lines	4 Lines	4 Lines
Boot with integral magnet	✓	✓	✓
User programmable headers	✓	✓	✓
Time & date stamp	✓	✓	✓
3 yr warranty (2 yr sensor warranty)	✓	✓	✓

Temp Measurement			
Flue Temp Range (T1 C125/C127)	32 ~ 1112°F / 0 ~ 600°C	20 ~ 2400°F / -29 ~ 1315°C	
Inlet Temp Range (T2 C125/C127)	-		
Inlet Temp Range (Ambient)	32 ~ 112°F / 0 ~ 50°C	32 ~ 112°F / 0 ~ 50°C	
Net Temp (ΔT)**	32 ~ 1112°F / 0 ~ 600°C	20 ~ 2400°F / -29 ~ 1315°C	
Resolution	1°F/°C	0.1°F/°C	
Flue (T1, Inlet T2, & Net ΔT) Accuracy	±{0.3% rdg +5°F(3°C)}	±{0.3% rdg +3.6°F(2°C)}	
Inlet Temp Ambient Accuracy	±{0.3% rdg +1°F(1°C)}	±{0.3% rdg +1.8°F(1°C)}	

Gas Measurement			
Oxygen	0 ~ 21%	0 ~ 21%	0 ~ 21%
O2 Resolution/Accuracy	0.1% / ±0.2%*	0.1% / ±0.2%*	0.1% / ±0.2%*
Carbon Monoxide	0 ~ 1000 ppm	0 ~ 4000 ppm	0 ~ 4000 ppm
CO Resolution/Accuracy	1 ppm/±10 ppm < 100 ppm* ±5% reading	1 ppm/±10 ppm < 100 ppm* ±5% reading	1 ppm/±10 ppm < 100 ppm* ±5% reading
Carbon Dioxide**	0 ~ 30%	0 ~ 30%	0 ~ 30%
CO2 Resolution/Accuracy	1.0%/±0.3% reading	1.0%/±0.3% reading	1.0%/±0.3% reading
Efficiency**	0 ~ 99.9%	0 ~ 99.9%	0 ~ 99.9%
Efficiency Resolution/Accuracy	0.1%/±1.0% reading	0.1%/±1.0% reading	0.1%/±1.0% reading
Excess Air**	0 ~ 250%	0 ~ 250%	0 ~ 250%
Excess Air Resolution/Accuracy	0.1%/±0.2% reading	0.1%/±0.2% reading	0.1%/±0.2% reading
Nitric Oxide - Range	-	-	0 ~ 100ppm
Nitric Oxide Resolution/Accuracy	-	-	1ppm Resolution ±2ppm <30ppm ±5ppm >30ppm

Pressure (Differential)	Range	Accuracy	Resolution (High)
C125 & C127 ONLY	±0.08"wg (±0.2mBar)	±0.002"wg (±0.005mBar)	0.001" wg to 9.999"
	±0.4"wg (±1mBar)	±0.01"wg (±0.03mBar)	
	±32"wg (±80mBar)	±3% reading	0.01" 10.00 to 32.00

Eagle Dimensions	
Weight	2.2lbs. with boot
Handset	7.9 x 1.8 x 3.5"
Probe	11.8 x 0.25 x 9.4" stainless steel shaft, type K thermocouple (9' hose)
Operating temp	0 to 40°C/10% to 90% Relative Humidity non-condensing
Battery	x4 "AA" cells / 12 hour life typical with Alkaline "AA" cells
Warranty	3 year limited warranty (2 year sensor warranty)

### Pre-Programmed Fuels

Natural Gas, Propane, Butane, LPG, Light Oil

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**++Eagle Series Accessories**

ITEM#	Description	UPC
KMIRP2	Thermal Printer - IR Link	05353360520
EABT	Eagle Bluetooth Upgrade	05353360594
AACA4	AC Adapter/Charger	05353360530
SPT1	Smoke Pump Test Kit	05353360519
AC509	Hard Carrying Case (red)	05353360572
D460	Draft Velocity Gauge	05353350522
ATT100	Inlet Temp Probe, K-Type Liquid 6"	05353360235
EAKit	Eagle II/III Acc Kit BF100/AACA4/2-ATT29/Hoses/AC519	05353360564
EARS232	Eagle RS232 Cable	05353360593

**Eagle Replacement Parts/Supplies**

KMCP2	Flue Probe	05353360492
FPTEXT	Flue Probe Extention	05353360575
13124	Compression Ferrule (Eagle,CO91,Smart Bell.)	05353360615
16646	Thermal Paper for KMIRP2	05353360420
16646PACK	Thermal Paper (10pack)	05353360611
SP9	Smoke Paper and Chart	05353360480
17631	Particle Filter	05353360401
17631PACK	Particle Filter (10pack)	05353360612
16184*	CO Sensor	05353360581
17662*	O2 Sensor	05353360506
17979*	NO Sensor (C127)	05353360582
SM11103	Inlet Tube	05353360583
SM11827	Water Trap	05353360609
CM11667/2	Water Trap Drain Plug	05353360535
CM11667/2PACK	Water Trap Drain Plug (10 pack)	05353360608
ATT29	K-Type Thermocouple	05353360126

\* Factory Installed ONLY.

**Commercial / Industrial Analyzers**

For more information regarding Commercial and Industrial applications, please visit [WWW.UETEST.COM](http://WWW.UETEST.COM)



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