# UEi

# EAGLE
## COMBUSTION ANALYZERS™

## 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.

### C75OILKIT
**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

## 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 Analyze*r. 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

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)

## Also Available..

### C127 Analyzer

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

### C127OILKIT

**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

| | C75 | C125 / C127 |
|---|---|---|
| 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

| | C75 | C125 | C127 |
|---|---|---|---|
| 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)

| C125 & C127 *ONLY* | Range | Accuracy | Resolution (High) |
|---|---|---|---|
| | ±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) | 0.01" 10.00 to 32.00 |
| | ±32"wg (±80mBar) | ±3% reading | |

## 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

*Measures  **Calculates

# Eagle

## ++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

| ITEM# | Description | UPC |
|---|---|---|
| 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.UEiTEST .COM

**KM9106P "Quintox"**   **KM940**   **KM900PLUS**

You'll love this STUFF

Distributed By:

UEi