

## KANE425 Technical Specifications

Parameter	Range	Resolution	Accuracy
<b>Temp Measurement</b> Flue Temperature	0-600°C	0.1°C	±2.0°C ±0.3% reading
Inlet Temperature (Internal sensor)	0-50°C	0.1°C	±1.0°C ±0.3% reading
Inlet Temperature (External sensor)	0-600°C	0.1°C	±2.0°C ±0.3% reading
<b>Gas Measurement</b> Oxygen	0-21%	0.1%	±0.2% <sup>1</sup>
Carbon Monoxide	0-2,000ppm nom 4,000ppm max for 15 mins	1ppm	±10ppm <100ppm <sup>1</sup> ±5% reading
Carbon Dioxide <sup>2</sup>	0-30%	0.1%	±0.3% reading
Efficiency <sup>2</sup>	0-99.9%	0.1%	±1.0% reading
Excess Air <sup>2</sup>	0-250%	0.1%	±0.2% reading
CO/CO <sub>2</sub> ratio <sup>2</sup>	0-0.999	0.0001	±5% reading
<b>Pressure (differential)</b> Nominal range ± 80 mBar Maximum over range without damage to sensor is ± 400 mBar	± 0.2 mBar ± 1 mBar ± 80 mBar	0.001 mBar 0.001 mBar 0.01 mBar	±0.005 mBar ±0.03 mBar ± 3% of reading
<b>Storage Capacity:</b>	99 Combustion Tests 20 Pressure Tests 20 Let-by / Tightness Tests 20 Temperature Tests 20 Room CO Tests		
<b>Pre-programmed Fuels</b>	Natural gas, Propane, Butane, LPG, Light Oils (28/35 sec)		
<b>Dimensions</b> Weight: Handset: Probe:	0.8kg (1.8lb) handset with boot 200 x 45 x 90mm (7.9" x 1.8" x 3.5") L300mm (11.8") x dia 6mm (0.25") with 240mm (9.4") long stainless steel shaft, type K thermocouple and 3m (9') long neoprene hose		
<b>Ambient Operating Range</b>	0°C to +40°C 10% to 90% RH non-condensing		
<b>Battery Type / Life</b>	4 AA cells >12 hours using Alkaline AA cells		
<b>Chargers (optional)</b>	220v fast charger, for NiMH batteries only 12v in vehicle charger, for NiMH batteries only		

<sup>1</sup> Using dry gases at STP<sup>2</sup> Calculated

Each KANE425 is supplied with:  
Flue probe, protective rubber sleeve with  
integral magnet, 2 pressure connectors, 4 x  
AA alkaline batteries and instruction manual.

**KANE425 options include:**  
Soft protective carry case, infra-red printer,  
plug-in gas leak detector, NiMH rechargeable  
batteries, 220v mains charger, 12v in-vehicle  
charger and a range of probes for air, liquid  
and surface temperatures. A Bluetooth™  
wireless module can be factory fitted.

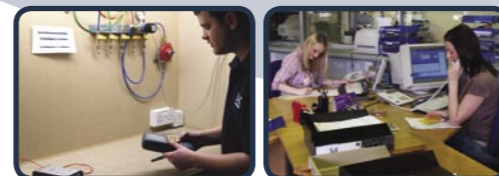
**KANE425 Kits:**  
Various KANE425 Kits are available offering  
extra value. Contact your distributor or Kane  
International for more details.

**5 year Warranty Offer.**

All flue gas analysers should be checked and  
recalibrated annually. Kane's unique fixed  
price service system includes the following  
benefits...

- Another 12 months warranty each time  
the analyser is returned\*
- Equivalent to a 5 year Extended Warranty  
if returned annually
- Free software upgrades if applicable
- New traceable calibration certificate as  
required by BS7967
- Return carriage via courier to a UK  
address
- Very competitive fixed prices -  
makes budgeting much easier
- Recalibration reminders can be sent
- See [www.kane.co.uk](http://www.kane.co.uk) for full details

\*Applies to all Kane analysers up to 5years old



Your distributor

**Kane International Limited**

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Ref: KA425IT06

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# KANE425 Analyser

*it's easy with Kane*

**"Made to Measure" for  
CORGI Registered  
Engineers**



425

O<sub>2</sub>  
CO  
CO<sub>2</sub>  
CO/CO<sub>2</sub>  
Efficiency  
Diff. Temp  
Diff. Pressure

**Optional Extras**

- Plug-in gas leak detector
- KMIRP infra-red thermal paper printer
- KANE ImPrint infra-red plain paper printer
- Bluetooth™ module
- NiMH rechargeable batteries
- 220v fast charger
- 12v in-vehicle charger
- Range of temperature probes

**Features**

- Easy to use rotary switch
- Protective rubber sleeve with magnet for "hands free" use
- Multi-fuel: Natural Gas, Propane, Butane, LPG, Light Oils  
(28/35 sec)
- High accuracy manometer
- Differential thermometer
- "Send" button for instant printout and logging
- Separate reports for:  
Combustion  
Pressure  
Let-by and Tightness  
Temperature  
CO build up
- Battery life typically 12+ hours
- Designed to meet BS7927, BS7967 and EN50379
- 5 year extended warranty if serviced annually by Kane

Infra-red printer  
emitter



# The most user friendly "6 in 1" analyser available

K425 1.0  
YOUR COMPANY NAME &  
PHONE NUMBER HERE

TEST 10  
DATE 15/05/06  
TIME 12:00:08

## COMBUSTION

FUEL	NAT	GAS
O2 %		5.4
CO2 %		8.8
CO ppm		12
FLUE °C		55.1
INLT °C		17.2
NETT °C		37.9
EFF (C)		98.3
LOSSES		1.7
XAIR %		34.8
CO/CO2		0.0001
PRS MBAR		0.00

Customer  
Appliance  
Ref.

K425 1.0  
YOUR COMPANY NAME &  
PHONE NUMBER HERE

## ROOM CO TEST

LOG 01  
TIME 12:50 15/05/06

TEST	CO PPM
0	00
1	00
2	10
3	04
4	01
5	00
6	00
7	10
8	03
9	00
10	00
11	00
12	07
13	11
14	02
15	00

MAXIMUM CO 11

Customer  
Appliance  
Ref.

## Combustion Analyser (#1)

- Select "Ratio" on the rotary switch to view current fuel, CO/CO<sub>2</sub> ratio, CO, and CO<sub>2</sub>
- Select "O<sub>2</sub>/Eff" to view O<sub>2</sub>, temperatures and efficiency
- Select "Aux" to view any 4 parameters, user selectable
- Measures O<sub>2</sub>, CO, inlet and flue temperatures
- Calculates CO<sub>2</sub>, CO/CO<sub>2</sub> ratio, excess air, losses and combustion efficiency, (nett, gross or condensing)
- Multi fuel - Natural gas, Propane, Butane, LPG and Light Oils (28/35sec)
- Readings can be printed via an infra-red printer, (see printout example)
- Memory stores up to 99 combustion tests

## CO Meter (#4)

Calibrate the analyser in fresh air to set the CO sensor to zero

- Select "Ratio" to check the ambient CO level in a room
- Select "Room CO" to perform a 15 minute CO test
- The CO level is logged at 1 minute intervals
- "Room CO" tests are automatically stored in the memory
- Tests can be printed via an infra-red printer, (see printout example)
- Memory stores up to 20 "Room CO" tests

## Gas Leak Detector (#5), optional

- Plug-in, handheld unit with the sensor at the tip of a flexible shaft
- LED's and a variable buzzer enable the user to pinpoint a gas leak
- Can detect leaks down to 50ppm of methane / natural gas



## Differential Pressure Meter (#2)

- Select "Prs" on the rotary switch for high accuracy single or differential pressure readings
- Range ± 80mBar, maximum resolution 0.001mBar  
Ideal for difficult applications such as flue draught
- Readings can be smoothed to damp out pressure pulsing  
Ideal for setting air/gas ratio valves
- Display includes a clock for manual timing, let-by test
- Readings can be printed via an infra-red printer, (see printout example)
- Memory stores up to 20 pressure tests
- Select "Tightness" to perform a let-by test and stabilisation/tightness test
- The let-by period defaults to 1 minute  
The stabilisation period defaults to 1 minute  
The tightness test period defaults to 2 minutes  
All 3 times can be adjusted by the user
- Tests are automatically stored in the memory
- Tests can be printed via an infra-red printer, (see printout example)
- Memory stores up to 20 "Tightness" tests

## Differential Thermometer (#3)

- Select "Diff Temp" to view flow (T1), return (T2) and differential (ΔT) temperatures
- Temperature probes are available to measure air, liquid and surface (pipe) temperatures
- Ideal for Benchmark log book
- Readings can be printed via an infra-red printer, (see printout example)
- Memory stores up to 20 differential temperature tests

## Torch Light (#6)

- Never got a torch when you need one? You have now!
- The KANE425 has a backlit display and an inbuilt LED torch

K425 1.0  
YOUR COMPANY NAME &  
PHONE NUMBER HERE

## PRESSURE

TIME 12:56 15/05/06  
PRS MBAR -0.037

Customer  
Appliance  
Ref.

K425 1.0  
YOUR COMPANY NAME &  
PHONE NUMBER HERE

## Tightness Test

LOG 06  
TIME 11:53 15/05/06  
PRS\_1 MBAR 20.33  
PRS\_2 MBAR 20.26  
ΔPRS MBAR -0.07  
STABIL 'N MINS 1:00  
TIGHTN 'S MINS 2:00

Customer  
Appliance  
Ref.

K425 1.0  
YOUR COMPANY NAME &  
PHONE NUMBER HERE

## DIFF TEMP

LOG 03  
TIME 12:10 15/05/06  
T1 °C 60.1  
T2 °C 47.0  
ΔT °C 13.1

Customer  
Appliance  
Ref.