

KANE425 Technical Specifications

Parameter	Range	Resolution	Accuracy
Temp Measurement 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
Gas Measurement Oxygen	0-21%	0.1%	±0.2% ¹
Carbon Monoxide	0-2,000ppm nom 4,000ppm max for 15 mins	1ppm	±10ppm <100ppm ¹ ±5% reading
Carbon Dioxide ²	0-30%	0.1%	±0.3% reading
Efficiency ²	0-99.9%	0.1%	±1.0% reading
Excess Air ²	0-250%	0.1%	±0.2% reading
CO/CO ₂ ratio ²	0-0.999	0.0001	±5% reading
Pressure (differential) 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
Storage Capacity:	99 Combustion Tests 20 Pressure Tests 20 Let-by / Tightness Tests 20 Temperature Tests 20 Room CO Tests		
Pre-programmed Fuels	Natural gas, Propane, Butane, LPG, Light Oils (28/35 sec)		
Dimensions 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		
Ambient Operating Range	0°C to +40°C 10% to 90% RH non-condensing		
Battery Type / Life	4 AA cells >12 hours using Alkaline AA cells		
Chargers (optional)	220v fast charger, for NiMH batteries only 12v in vehicle charger, for NiMH batteries only		

¹ Using dry gases at STP² 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 for full details

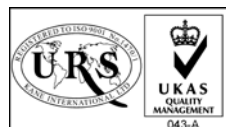
*Applies to all Kane analysers up to 5years old



Your distributor

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Ref: KA425IT06

The KANE logo is a registered trademark of Kane International Ltd.

KANE425 Analyser

it's easy with Kane

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



425
O₂
CO
CO₂
CO/CO₂
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/CO₂ ratio, CO, and CO₂
- Select "O₂/Eff" to view O₂, temperatures and efficiency
- Select "Aux" to view any 4 parameters, user selectable
- Measures O₂, CO, inlet and flue temperatures
- Calculates CO₂, CO/CO₂ 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.