GAS ANALYSERS

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	± 0.2 mBar	0.001 mBar	±0.005 mBar
Maximum over range without damage to sensor is ± 400 mBar	± 1 mBar ± 80 mBar	0.001 mBar 0.01 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 STP *2 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.

---

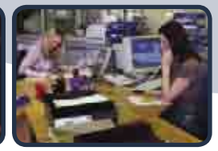
5 year Warranty Offer.

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

JMW Limited
The Calibration Lab
Warwick House
Perry Road
Harlow, CM18 7NF
Tel: 01279 307100
Fax: 01279 307101
www.jmwlimited.co.uk

Warranty

All Kane International Limited products are warranted for 12 months from the date of purchase. This warranty covers any defects in materials or manufacturing.

Kane International Limited specialise in the design, manufacture and marketing of electronic instruments for monitoring and optimising both energy usage and emissions from energy processes. Our Policy is to continuously develop and improve our products and so we reserve the right to change any part of our product specifications without prior notice.

Kane International Limited
Kane House, Swallowfield, Welwyn Garden City,
Hertfordshire, AL7 1JG, United Kingdom
Tel: +44 (0) 1707 375550 Fax: +44 (0) 1707 393277
Email: sales@kane.co.uk Web: www.kane.co.uk

Ref: KA425IT06

KANE425 Analyser

it's easy with Kane

"Made to Measure" for CORGI Registered Engineers

425

O_2
CO
CO_2
CO/CO_2
Efficiency
Diff. Temp
Diff. Pressure

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

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

Infra-red printer emitter

GAS ANALYSERS

The most user friendly “6 in 1” analyser available

Combustion Analyser (#1)

- Select “Ratio” on the rotary switch to view current fuel, CO/CO_2 ratio, CO, and CO_2
- Select “O_2/Eff” to view O_2, temperatures and efficiency
- Select “Aux” to view any 4 parameters, user selectable
- Measures O_2, CO, inlet and flue temperatures
- Calculates CO_2, CO/CO_2 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