

Hand Held Multi-Gas Emissions Analyser **KANE940**

it's easy with Kane

GAS ANALYSERS



940

O₂
CO
CO₂
NO
NO_x
SO₂



Features

- Big character display
- High suction double headed pump
- Teflon lined flue probe
- Infra-red printer link... printed header can be customised
- Memory to store 150 test results for easy transfer to PC
- Long life battery recharged in situ

Options

- High range CO sensor instead of standard CO sensor
- Low range NO sensor in place of standard NO sensor
- NO₂ sensor in place of any other toxic gas sensor
- SO₂ sensor in place of any other toxic gas sensor

Optional Extras

- KMIRP infra-red thermal paper printer
- KANE ImPrint infra-red plain paper printer



Measures

- **Oxygen** to 21%
- **Carbon Monoxide (CO)** to 10,000ppm with hydrogen compensated sensor (alternatively CO to 100,000ppm with high range sensor)
- **Nitric Oxide (NO)** to 5000ppm with calculated NO_x (alternatively NO to 100ppm with better low range accuracy)
- **Sulphur Dioxide (SO₂)** to 5000ppm
- (Alternatively any toxic sensor can be replaced with a 1000ppm **Nitrogen Dioxide (NO₂)** sensor)
- **Inlet Temperature**
- **Flue Gas Temperature**
- **Differential pressure**

Technical Specifications KANE940

Parameter	Resolution	Accuracy	Range
Temp Measurement			
Flue Temperature with Probe	1.0°C/F	±2.0°C ±0.3% reading	0-600°C 32-1112°F
Inlet Temperature	0.1°C/F	±1°C ±0.3% reading	0-50°C 32-122°F
Pressure	0.1 mbar	±2% of full scale	+150mbar to -150mbar
Gas Measurement *1			
Oxygen	0.1%	±0.2%	0-21%
Carbon Monoxide (standard: H compensated)	1ppm	±20ppm <400ppm ±5% <5000ppm ±10% <5000ppm	0-10,000ppm
Carbon Monoxide (high range)	0.01%	±5% reading from 0.1% to 10%	0-10%
Nitric Oxide (standard)	1ppm	±5ppm <100ppm ±5% >100ppm	0-5000ppm
Nitric Oxide (low range)	1ppm	±2ppm <30ppm ±5ppm >30ppm	0-100ppm
Nitrogen Dioxide	1ppm	±5ppm <100ppm ±10ppm <500ppm ±5% >500ppm	0-1000ppm
Sulphur Dioxide	1ppm	±5ppm <100ppm ±5% >100ppm	0-5000ppm
Calculations			
Carbon Dioxide *2	0.1%	±0.3% reading	0-99.9%
Losses	0.1%	±1.0% reading	0-99.9%
Efficiency	0.1%	±1.0% reading	0-99.9%
Excess Air	0.1%	±0.2%	0-2885.0%
Temp (Nett)	1.0°C/F	±2°C ±0.3% reading	0-600°C / 32-1112°F
CO/CO ₂ Ratio	0.0001	±0.0001	0-0.9999
Poison Index	0.01%	±0.01	0-99.99

Parameter	Description
Pre-programmed Fuels	Natural Gas, Town Gas, Gascor, Light Oil, Heavy Oil, Propane, Butane, Anthracite, Coke, Coal, Kinsale Gas
Dimensions: Weight	1Kg
Handset	220mm x 55mm x 120mm
Probe	L 420mm x Dia 8mm with stainless steel shaft, type K thermocouple and 3m hose
Ambient Operating Range	0°C to 45°C / 10% to 90% RH non condensing
Power Supply (Battery Charger)	Input: 110Vac / 220Vac nominal Output: 12Vac off load
Battery Life	>6 hours from full charge

Your distributor

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.

The KANE940 handheld analyser is ideal for industrial boiler flue gas measurement and analysis. It operates on all boiler types and can display 8 parameters simultaneously showing measurements and calculations of boiler efficiency and pollution.

The KANE940 measures O₂, flue and nett temperature and calculates CO₂, boiler efficiency, excess air and losses. CO is measured with a hydrogen compensated sensor for increased accuracy. It also measures CO and calculates CO/CO₂ ratio - 'The Poison Index' - to give complete readings for effective boiler analysis and safety.

The KANE940 measures NO and calculates NO_x. For more accurate pollution analysis an optional NO₂ or SO₂ sensor can be fitted at time of purchase. The high suction double headed pump allows the analyser to be used in flues with suction over 100 mbar without compromising measuring accuracy. The probe hose is lined with Teflon to reduce absorption of any sample gases.

The differential pressure sensor can be used to measure flue draught or be used with a pilot tube (not supplied).

The KANE940 has a memory to store up to 150 readings and can transfer data to a printer or PC. The printout displays the time and date of each measurement as well as personalised information such as company name and telephone number.

The analyser is supplied with a flue gas probe, protective rubber sleeve, battery charger, operator's manual and carry case.

*1 Using dry gases at STP

*2 Calculated



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