

Hand Held Multi-Gas Emissions Analyser

KANE900 PLUS

it's easy with Kane

www.kanescopes.com



900 PLUS

O₂
CO
CO₂
NO
NO_x
SO₂

GAS ANALYSERS



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**

Features

- Big character display
- IR printer link... printed header can be customised
- Large memory to store 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



Technical Specifications KANE900 PLUS

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Parameter	Resolution	Accuracy	Range
Temp Measurement			
Flue Temperature with Probe	0.1°C/F	±2.0°C ±0.3% reading	0-1200°C / 32-2200°F <small>with suitable probe</small>
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 <small>(standard: H compensated)</small>	1ppm	±20ppm <400ppm ±5%<5000ppm ±10%<5000ppm	0-10,000ppm
Carbon Monoxide <small>(high range)</small>	0.01%	±5% reading from 0.1% to 10%	0-10%
Nitric Oxide <small>(standard)</small>	1ppm	±5ppm<100ppm ±5%>100ppm	0-5000ppm
Nitric Oxide <small>(low range)</small>	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	-5°C to 50°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

The KANE900 PLUS handheld analyser is easy to use for domestic and 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 KANE900 PLUS 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 KANE900 PLUS measures NO and calculates NO_x. Optionally, it can also measure either NO₂ or SO₂ and can be fitted with CO and NO sensors with different measuring ranges. These options can be fitted at time of purchase or when returned to an authorised Kane service centre at a later date.

An optional pressure sensor can be fitted to measure flue draught.

The KANE900 PLUS has a large memory to store 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 KANE900 PLUS is supplied with a flue gas probe, protective rubber sleeve, battery charger, operators manual and carry case.

*1 Using dry gases at STP

*2 Calculated