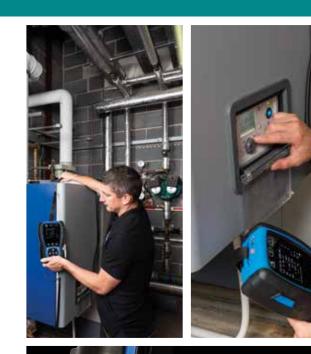






# KANE975 Industrial Flue Gas Analyser







#### **Contents**

Analyser, probe, pressure connectors, charger, quick reference guide, calibration report

#### Sensor options

- H<sub>2</sub>S 0-200ppm
- High range CO sensor instead of standard CO sensor
- NO2 sensor in place of any other toxic gas sensor
- SO<sub>2</sub> sensor in place of any other toxic gas sensor
- CO<sub>2</sub> Infra-red sensor: range 0-20%



Independently tested by TUV SUD to: EN50379 Use for: BS7967

## KANE975

### KANE975 Industrial Flue Gas Analyser

- Latest Flue Gas Analyser technology with options for up to 7 gas measurements CO (0-10,000 ppm), CO<sub>2</sub>, O<sub>2</sub>, NO, NO<sub>2</sub>, SO<sub>2</sub> & H<sub>2</sub>S
  - Ideal for larger installations
- Built in over-range protection
  - Prevents sensor damage
- Intuitive user keypad and buttons
  - For ease of use
- Large full colour graphic display
  - Customise to suit your requirement

#### **Applications**

- Installation, commissioning & servicing of industrial/ commercial oil, gas or biomass appliances
- Safety checks
  - CO in a room or around an appliance
- Combustion performance checks
- Combustion efficiency checks
- Flue Draught

#### Measures

- O<sub>2</sub> 0-21%
- CO 0-10,000ppm (hydrogen compensated)
- Differential pressure
- Temperature inlet / flue gas / differential / ambient
- Choose up to 5 additional sensors
- \* CO 0-10%
  - \* NO 0-5,000ppm
- \* SO<sub>2</sub> 0-100ppm
- \* H<sub>2</sub>S 0-200ppm
- CO<sub>2</sub> 0-20%
- \* NO<sub>2</sub> 0-1,000ppm
- SO<sub>2</sub> 0-5,000ppm

CO/CO<sub>2</sub> ratio

#### Calculates

- CO<sub>2</sub> 0-99%
- Excess air

- Combustion efficiency
- \* NOx (if NO sensor fitted)

#### **Fuel Types**

- Natural Gas (x2)
- Wood Pellets
- Kinsale Gas
- Heavy oil
- **LPG**
- Coal
- Town Gas Bio Gas Gascor
  - LPG
    - Butane
  - Propane Coke
- User fuel (x5) 28 sec oil

Anthracite

#### **Features**

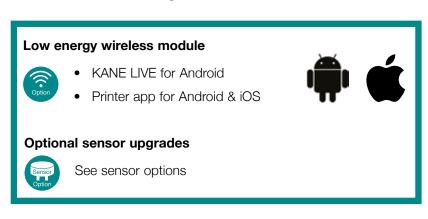
- Low energy wireless module
- Infra-red printer link with customised printer header
- Logs & stores up to 8,000 test results to transfer to PC
- Long life battery recharged in situ
- High suction double headed pump, ideal for high stack pressure in large chimneys
- Supplied with Teflon lined flue probe



Flue Gas Analysis



**Emission Monitoring** 





Commissioning



Real Time Trending



KANE975



Optional probe: KMCHLP6 1m high temperature probe with removable shaft

- 8mm diameter
- 4m neoprene hose

\*1 Using dry gases at STP \*2 Calculated

		9	sing dry gases at 311 Galculated
Parameter	Resolution	Accuracy	Range
Temperature Measureme	ent & Pressure Meas	surement	
Flue Temperature Inlet Temperature	0.1°C 0.1°C	±1°C ±0.3% reading ±1°C ±0.3% reading	-50 - 1200°C with suitable probe 0 - 50°C
Pressure	0.1mbar	±0.5% full scale	150 mbar
Gas Measurement*1			
Oxygen	0.1%	±0.3%	0 - 25%
Carbon Monoxide H2 compensated	1ppm	±5ppm <100ppm ±20ppm <400ppm ±5% >400ppm - 2000ppm ±10% >2000ppm - 10000ppm	0 - 10000ppm 10000 - 20000ppm for 15 mins
Carbon Monoxide High Range (optional)	0.01%	±5% of reading from 0.1% to 10%	0 - 10%
Hydrogen Sulphide (optional)	1ppm	±5ppm <100ppm ±5% >100ppm	0 - 200ppm
Nitric Oxide (optional)	1ppm	±5ppm <100ppm ±5% >100ppm	0 - 5000ppm
Nitrogen Dioxide (optional)	1ppm	±5ppm <100ppm ±10ppm <500ppm ±5ppm >500ppm	0 - 1000ppm
Sulphur Dioxide (optional)	1ppm	±5ppm <100ppm ±5% >100ppm	0 - 5000ppm
Carbon Dioxide Infra-red (optional)	0.1%	±0.3% reading	0 - 20%
Carbon Dioxide*2	0.1%	±0.3% reading	0 - 99.9%
Losses*2	0.1%	±1.0% reading	0 - 99.9%
Efficiency*2	0.1%	±1.0% reading	0 - 120%
Excess Air*2	0.1%	±0.2%	0 - 2885.0%
Temp (Nett)*2	1.0°C/F	±2°C ±0.3% reading	0 - 1200°C/32 - 2200°F
CO/CO2 ratio*2	0.0001	±0.0001	0 - 0.9999
Poison Index*2	0.01%	±0.01	0 - 99.99
Pre-programmed Fuels		Natural Gas (x2), Town Gas, Gascor, Light Oil, Heavy Oil, Propane, Butane, Anthracite, Coke, Coal, Kinsale Gas, User Fuel (x5)	
<b>Dimensions</b> Weight Handset Probe		1.2kg 240mm x 165 x 65 Dia 8mm with 285mm long stainless steel shaft, type K thermocouple & 3m long neoprene hose	
Ambient Operating Range		-5°C to +50°C/10% to 90% RH non condensing	
Power Supply (battery charger)		Input: 110Vac/220 Vac nominal Output: 12 Vac off load	
Battery Life		>6 hours from full charge	