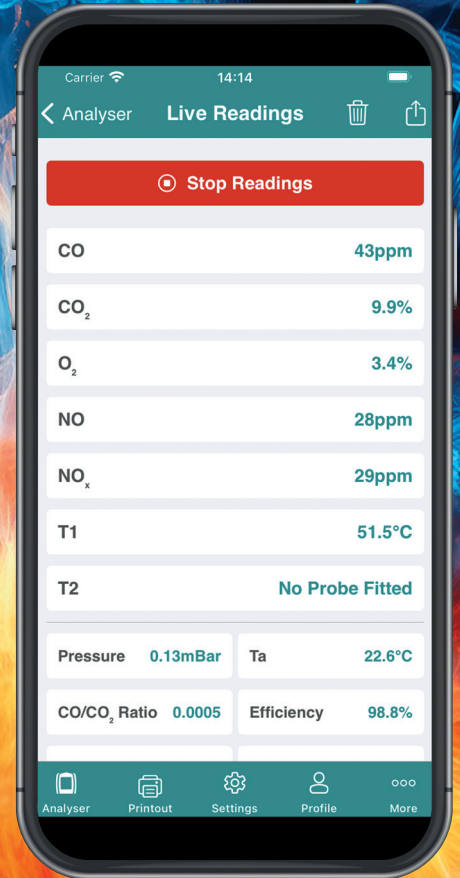
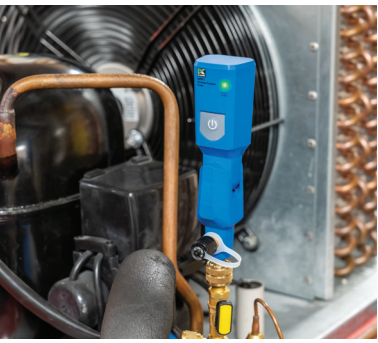




# Essential instruments

## KANE978



Boiler, Heat Pump,  
A/C & Refrigeration Analyser





# TEST BOILERS, HEAT PUMPS, A/C & REFRIGERATION & IAQ



## KANE978

- Supplied with pressure hose, CHSP5 probe, 6 rechargeable batteries, CU12VDC2A21 charger & MSC00117 protective pouch
- KANE978 Kit options - As KANE958 + HVACR KIT



## KANE978



### Boiler, Heat Pump, A/C & Refrigeration Analyser

- Test any size Heating & Hot Water System
- O2, CO to 10,000ppm with H2 compensation
- NOx to 5,000ppm option
- Long term semi continuous monitoring option - contact for details
- Commission boilers, heat pumps, A/C & refrigeration systems - No manifold & hoses required
- **KANE LINK™** wireless measurements
- 2 psi / 160 mbar pressure sensor for flue draught, system & tightness tests
- Hydrophobic water trap stops vapour damage
- See, save & send tests to KANE LIVE app
- Fast & easy operation with large colour graphic display & rugged, compact design

### Applications

- Test gas, oil & biomass appliances
- Perform let by, tightness & flue draught tests
- New boiler commissioning test
- Appliance sweep test for CO leaks
- Simultaneous 4 room CO migration test with up to 4 KANE79 wireless CO monitors option
- Heat pump temperature differential test
- A/C & refrigeration superheat & subcool test
- Building ventilation & IAQ test with KANE-DTHA2 wireless anemometer for airflow, temp & RH



- Lifetime warranty for analyser & accessories
- Lifetime promise to repair or replace your analyser & accessories as required
- KANE CARE price includes probe, batteries, charger, bag & printer
- Free tracked delivery both ways
- Same day service & recertification or your money back
- UKAS ISO 17025 fixed price certificate option
- 50% off new analyser if stolen

KANE CARE terms & conditions apply - see [www.kane.co.uk](http://www.kane.co.uk)



EN50379

T&Cs apply



## KANE4605SP

KANE CARE 5 Year Service Plan

more info at:

[www.kane.co.uk/service-plan](http://www.kane.co.uk/service-plan)



# NO CABLES, NO MANIFOLD, NO HOSES & NO LEAKS

## Measures

- O<sub>2</sub> 0-21%
- CO 0-10,000ppm H<sub>2</sub> compensated with over range protection
- NO 0-5,000ppm option
- Temperature - inlet / flue gas / differential / ambient
- High accuracy differential pressure meter +/- 160mbar

## Calculates

- CO<sub>2</sub> - 0-99%
- Excess air
- NO<sub>x</sub> if NO sensor fitted
- A/C & Refrigeration subcool & superheat
- CO/CO<sub>2</sub> ratio
- Combustion efficiency

## Fuels & Refrigerants

- 12 standard fuels including:  
Natural Gas, LPG, Butane, Propane, Light Oil, Heavy Oil, plus 5 user fuels
- 40 refrigerants including:  
R22, R32, R134a, R290 & R410A



Industrial Boiler Analysis



Gas Engine Testing

## HVACR KIT



- Supplied with KANE-HUB4 KIT (2x WPCP & 2x WPP), 1x DTHA2 & 1x 20128 extender, 2 psi pressure sensor & hose, CU12VDC2A21 charger & MSC00017 handset pouch



## Options

|                                           |  |
|-------------------------------------------|--|
| NO 0-5,000ppm                             |  |
| CHSP5 285mm high temp probe               |  |
| CHSMP5 600mm high temp probe              |  |
| CHSLP5 1M high temp probe                 |  |
| KMCE10 10M flue gas & temp hose extension |  |
| KANE-DTHA2 wireless anemometer            |  |
| KANE79 wireless room CO monitor           |  |
| KANE-WPCP2 2 wireless temp clamp probe    |  |
| KANE-WPP2 2 wireless pressure probes      |  |

# KANE978 Specifications

| PARAMETER                                       | RANGE                                                                                                                                                | RESOLUTION           | ACCURACY                                                                              |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------------------------------------------------------------------------------------|
| Temperature Measurement                         |                                                                                                                                                      |                      |                                                                                       |
| Flue Temperature                                | 0 - 1250°C / 32 - 2282°F                                                                                                                             | 0.1°C / 32.182°F     | ±0.5°C / 32.9°F                                                                       |
| Inlet temperature (Internal Sensor)             | 0 - 50°C / 32 - 122°F                                                                                                                                | 0.1°C / 32.182°F     | ±1°C / 33.8°F                                                                         |
| Inlet temperature (External Sensor)             | 0 - 600°C / 32 - 1112°F                                                                                                                              | 0.1°C / 32.182°F     | ±0.5°C / 32.9°F                                                                       |
| Flue Gas Measurement                            |                                                                                                                                                      |                      |                                                                                       |
| Oxygen                                          | 0 - 25%                                                                                                                                              | 0.01%                | ±0.3% Volume                                                                          |
| Carbon Monoxide<br>H2 compensated               | 0 - 10,000ppm                                                                                                                                        | 1ppm                 | ±5ppm < 100ppm   +20ppm <400ppm<br>±5% >400ppm – 2000ppm<br>+10% >2000ppm – 10,000ppm |
| Nitric Oxide (optional)                         | 0 - 5000ppm                                                                                                                                          | 1ppm                 | ±5ppm < 100ppm   +5% >100ppm                                                          |
| Pressure measurement                            |                                                                                                                                                      |                      |                                                                                       |
| Pressure (Differential)                         | ±160mbar / 64.29 In Wg                                                                                                                               | 0.1mbar / 0.04 In Wg | ±0.5% FSD                                                                             |
| Velocity:                                       | 0-30m/s                                                                                                                                              | 1m/s                 | ±0.5% FSD                                                                             |
| Calculations                                    |                                                                                                                                                      |                      |                                                                                       |
| CO/CO2 Ratio                                    | 0 - 0.9999                                                                                                                                           | 0.0001               | ±5% of reading                                                                        |
| Efficiency (Net or Gross)                       | 0 - 99.9%                                                                                                                                            | 0.10%                | ±1% of reading                                                                        |
| Efficiency High (C)                             | 0 - 119.9%                                                                                                                                           | 0.10%                | ±1% of reading                                                                        |
| Excess Air                                      | 0 - 119.9%                                                                                                                                           | 0.10%                | ±0.2% of reading                                                                      |
| Pre-programmed Fuels                            |                                                                                                                                                      |                      |                                                                                       |
| UK, USA & France                                | Natural Gas, Propane, Butane, LPG, Light Oil, Digester Gas & Wood Pellets                                                                            |                      |                                                                                       |
| European                                        | Natural Gas, Light Oil, Bio Oil, Coke, LPG, Wood, Town Gas, Butane & Propane                                                                         |                      |                                                                                       |
| Battery Life                                    | >5 hours (continuous with pump on)                                                                                                                   |                      |                                                                                       |
| Certification                                   | KANE978 is independently tested & certified to EN 50379, Parts 1-2 in accordance to 1st German Federal Emission Control. Ordinance (Bim5chV) Pending |                      |                                                                                       |
| Operating Conditions & Physical Characteristics |                                                                                                                                                      |                      |                                                                                       |
| Temperatures                                    | 0 - 50°C / 32 - 122°F                                                                                                                                |                      |                                                                                       |
| Humidity                                        | 15 to 90% RH, (non-condensing)                                                                                                                       |                      |                                                                                       |
| Power Supply                                    | Rechargeable batteries, 12v DC @ 2A Charging                                                                                                         |                      |                                                                                       |
| Weight / Dimensions                             | Approx. 1.2kg / L: 240mm x H: 165mm x W: 65mm                                                                                                        |                      |                                                                                       |

## Customer Service



**0800 059 0800**  
**+44 1707 375550**  
[www.kane.co.uk](http://www.kane.co.uk)  
Email: [sales@kane.co.uk](mailto:sales@kane.co.uk)



**1800 852 937**  
[www.kanetest.ie](http://www.kanetest.ie)

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