

KANE255

Combustion Analyser



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1. OVERVIEW

The KANE255 Combustion Analyser measures carbon dioxide (CO₂), carbon monoxide (CO) and Flue temperature.

It calculates oxygen (O₂), CO/CO₂, ratio, losses, combustion efficiency (Nett, Gross or Condensing) and excess air.

In addition the KANE255 Combustion Analyser's CO sensor checks CO levels in ambient air - useful when a CO Alarm is triggered.

The CO reading can be referenced to the oxygen reading in ppm or mg/m³.

The analyser has a protective rubber cover with integral magnet for "hands-free" operation and is supplied with a flue probe with integral temperature sensor.

The large display shows 2 readings at a time and all data can be printed via an optional infrared printer. The printed data can be 'live' data, 'frozen data' or stored data. 20 sets of tests can be stored. Two lines of 16 characters can be added to the header of printouts.

The KANE255 combustion analyser is controlled using 4 buttons and a rotary dial.

The four buttons (from left to right) the power button, switch on and off the backlight and "freeze" or hold data, switch on and off the pump, SEND button, to print live readings, if the SEND button is held for 2 seconds the data is stored in the memory, a log number will be briefly displayed. The buttons with UP, DOWN and ENTER arrows also change settings such as date, time, fuel source and AUX page settings.

The rotary dial changes the displayed data and selects access to the menu to make changes to the date, time, etc.

2. ANALYSER LAYOUT & FEATURES



3. BATTERIES

Battery Type

The analyser has been designed for use with disposable alkaline batteries or rechargeable Nickel Metal Hydride (NiMH) batteries. No other battery types are recommended.

WARNING

The battery charger unit must only be used when NiMH batteries are fitted. Do not mix NiMH battery cells of different capacities or from different manufacturers. All four battery cells must be identical.

Replacing Batteries

Turn over the analyser, remove its protective cover followed by the battery cover and fit 4 “AA” batteries in the battery compartment. Take great care to ensure that they are fitted with the correct battery polarity. Replace the battery cover and the protective cover.

Switch the analyser on and check that the analyser’s date and time are correct. To reset the date and time, see using the MENU section.

Charging NiMH batteries

Ensure that you use the correct charger. Part number 19278

To fully charge NiMH batteries:

Switch the KANE255 on. The charger should be connected and switched on. When charging the red Battery charging indicator will illuminate. Switch the KANE255 off. The display will show BATTERY and a battery symbol.

The first charge should be for 12 hours continuously. NiMH are suitable for top up charging at any time even for short periods.

Battery Disposal

Always dispose of depleted batteries using approved disposal methods that protect the environment.

4. BEFORE USING THE ANALYSER EVERY TIME:

Check the water trap is empty and the particle filter is not dirty:

To empty water trap, unscrew its stopper and re-tighten the stopper once it is empty.

To change the filter, remove protective rubber sleeve, pull out the water trap unit from the analyser, remove the water trap's particle filter from its' spigot and replace. Reconnect the water trap and rubber protective sleeve.

Connect the flue probe hoses to the analyser's flue gas inlet and connect the flue probe's temperature connector to the T1 socket – check the plug's orientation is correct otherwise incorrect temperature measurements will occur.

After switch on, check fuel source, date and time are correct and battery power is sufficient.

5. FRESH AIR PURGE

Position the flue probe in fresh air, then press ON/OFF. The analyser's pump starts and the analyser auto calibrates for approximately 75 seconds.

Using the rotary dial select CO₂ & CO. In fresh air both COp and CO₂% reading should be zero.

6. STATUS DISPLAY

Select the "Status" position on the dial to view Battery Status and Calibration Due Date.

7. SAFETY WARNING

This analyser extracts combustion gases that may be toxic in relatively low concentrations. These gases are exhausted from the back of the instrument. **This meter must only be used in well-ventilated locations by trained and competent persons after due consideration of all the potential hazards.**

Sensor manufacturers recommend users of portable gas detectors containing electrochemical conduct a “bump” check before relying on the unit to verify an atmosphere is free from hazard.

A “bump” test is a means of verifying that an instrument is working within acceptable limits by briefly exposing to a known gas mixture formulated to change the output of all the sensors present. (This is different from a calibration where the instrument is also exposed to a known gas mixture but is allowed to settle to a steady figure and the reading adjusted to the stated gas concentration of the test gas).

8. USING THE FOUR FUNCTION BUTTONS:

Switching ON the Analyser:

Press the ON/OFF button to switch the analyser ON. This must be done in fresh air, to ensure the analyser auto calibrates its sensors correctly.

When switched on the analyser beeps and displays the battery %, date, time, fuel and model number. The second line of the display counts down from 75 until the sensors are ready to use. If the analyser will not auto calibrate! Its sensors need to be replaced or recalibrated by Kane authorised repair centre.

If the flue probe is connected to the analyser during the countdown the measure temperature will be used as the inlet temperature (Ti).

If the flue probe is NOT connected during the count down then the analysers internal ambient temperature will be used as the inlet temperature (Ti).

Switching off the Analyser:

Press the ON/OFF button to switch the analyser OFF. The display counts down from 29 with the pump on to clear the sensors with fresh air – if the flue probe is still connected, make sure the analyser and probe are in fresh air.

Press the SEND/PRINT button to abort the off count down and return to making measurements.

Note: The analyser will not switch off unless the CO reading is below 40ppm.

Backlight & Data Freeze:

Press the backlight button for 1 second to freeze the current data on the screen. Press the backlight button for a 1 second to disable the freeze function.

Press the backlight button for 2 seconds to switch on the analysers display backlight. Press the backlight button for 2 seconds to disable the backlight.

NOTE: Use of the backlight significantly increases the current drain on the batteries.

Switching the PUMP on / off

The analyser operates normally with the pump on.

Press the PUMP button to switch the pump off and on

When the pump is switched off “-PO-“ replaces the readings on the top line of the display. The analyser also displays “PUMP OFF” on the top line approximately every 40 seconds

NOTE: The pump will not switch off if the CO reading is above 40ppm. This helps to protect the CO sensor from damage.

The pump automatically switches itself off when the rotary dial is set to Menu, Status and Temp if the CO value is less than 40ppm.

Printing Data

Press the SEND/PRINT button for 1 second to start the data transfer from the analyser to the infra-red printer. The analyser displays a series of bars until the transfer is completed. Press the button for 1 second again to abort the transfer.

Make sure the printer is switched on, ready to accept data and the infra-red receiver is inline with the emitter of the analyser (on top of the analyser).




Storing Data

Press and hold the SEND/PRINT button for approximately 2 seconds.

The top line of the display briefly displays the log number.

Note: The store function is inhibited in normal operation if the pump is switched off.

9. USING / / BUTTONS

The function buttons with the symbols  /  /  below are used to navigate through the menu when the rotary dial is in the menu position.

10. USING THE ROTARY DIAL (STARTING FROM MENU):

Select "Menu" on the rotary dial and navigate using the function buttons.

△ = Scroll up ▽ = Scroll down ↵ = Enter

	ROTARY DIAL POSITIONS
MENU	<p>Rotate the dial to MENU and use the UP or DOWN and ENTER keys to select the following function for change:</p> <ol style="list-style-type: none"> 1 Time – Uses "Military" time as standard: 7am = 07:00, 7pm = 19:00 2 Date 3 Aux. Two pages of two lines to display desired parameters not currently on the rotary dial. 4 O2 Ref. 5 The display's contrast 6 Header – 2 lines each of up to 16 characters that appear on the printout. Use ENTER and UP/DOWN. 7 Gross or Net or Condensing Boiler / Furnace efficiency 8 ppm or mg/m³ 9 Report 10 Printing select the PRINTER model KMIRP/KANEIRP-2 11 Service – Password protected for service personal only <p>When you have selected the function to change, press ENTER to select.</p> <p>Repeat this to scroll through the menu and select (using the ENTER key) and change (using the UP / DOWN keys) the function.</p> <p>The final, logical ENTER returns you to the main menu display.</p> <p>To exit the Menu function you can normally rotate the dial to another position - Unless the final logical ENTER is pressed, no changes are made.</p>

	ROTARY DIAL POSITIONS
STATUS	Displays the battery level and the number of days until calibration is due
AUX	Displays up to two pages of two lines that toggle for custom setting
O₂ / Eff	Displays calculated Oxygen values and the calculated efficiency when O ₂ values are less than 18% EFFn, EFFg or EFFc as selected by the user.
CO₂ & CO	Displays Carbon Dioxide in % and Carbon Monoxide in ppm
RATIO	Displays the CO/CO ₂ ratio and the selected fuel type
TEMP	Displays the flue (Tf) and inlet (Ti) temperatures in °F or °C . If the flue probe's temperature sensor is broken or open circuit Tf displays -OC- °C
FUEL	SET FUEL, select the boiler/furnace fuel using UP/DOWN and ENTER keys. Preprogrammed fuels: NAT GAS, Light Oil, PELLETS(wood), BUTANE, L.P.G., PROPANE
DATE / TIME	Displays the date and time

11. MEASURING FLUE GASES

After the countdown is finished and the analyser is correctly set up, put its' flue probe into the appliance's sampling point. The tip of the probe should be at the centre of the flue. Use the flue probe's depth stop cone to set the position.

For appliances that have internal sampling points, you can connect using a suitable plastic or rubber hose. **Always remember to refit the covers/seals once sampling has been completed.**

With balanced flues, make sure the probe is positioned far enough into the flue so no air can 'back flush' into the probe.

NOTE: Ensure that the flue probe handle does not get hot

Make sure you do not exceed the meter's operating specifications. In particular:

- Do not exceed the flue probe's maximum temperature
- Do not exceed the meter's internal temperature operating range
- Do not put the meter on a hot surface
- Do not exceed the water trap's levels
- Do not let the meter's particle filter become dirty and blocked

View the displayed data to ensure that stable operating conditions have been achieved and the readings are within the expected range.

Press the SEND/PRINT button for 1 second to start the data transfer from the analyser to the infra-red printer. The analyser displays a series of bars until the transfer is completed. Press the button for 1 second again to abort the transfer.

Make sure the printer is switched on, ready to accept data and the infra-red receiver is inline with the emitter of the analyser (on top of the analyser).

Press and hold the SEND/PRINT button for approximately 2 seconds to store the data in the memory.

Press the BACKLIGHT key for one second to "freeze" the readings before printing.

NOTE: In accordance with BS7967 and EN50379 the value of the CO/CO₂ RATIO is shown to 4 decimal places.

R 0.0008

→ NOTE: 0.0008 is less than 0.004.

R 0.0040

→ Many manufacture's instructions show this as **0.004**.

AUX display

CO_n 021

→ The AUX (auxillary) can be customised via MENU AUX.

O₂% 05.0

The parameters are displayed in 2 pages of 2 lines and can be set by the user.

They remain the AUX parameters until changed by the user.

Press the SEND/PRINT button for 1 second to print the full combustion test.

Press and hold the SEND/PRINT button for approximately 2 seconds to store the combustion test in the memory.

Press the BACKLIGHT key for one second to "freeze" the readings before printing.

O₂/EFF display

O₂% 05.0

→ Oxygen (%) left after combustion. Should be 20.9% \pm 0.1% in fresh air

EFC 98.2

→ 'Net', 'Gross', or 'Condensing' combustion efficiency (%) can be selected via "Menu"

Press the SEND/PRINT button for 1 second to print the full combustion test.

Press and hold the SEND/PRINT button for approximately 2 seconds to store the combustion test in the memory.

Press the BACKLIGHT key for one second to “freeze” the readings before printing.

CO₂ & CO display

CO_p	052	→ Carbon monoxide in (ppm)
CO₂%	08.9	→ Carbon dioxide (%)

Press the SEND/PRINT button for 1 second to print the full combustion test.

Press and hold the SEND/PRINT button for approximately 2 seconds to store the combustion test in the memory.

Press the BACKLIGHT key for one second to “freeze” the readings before printing.

RATIO display

R	0.0006	→ CO/ CO ₂ RATIO
NATU	GAS	→ Fuel source selected

Press the SEND/PRINT button for 1 second to print the full combustion test.

Press and hold the SEND/PRINT button for approximately 2 seconds to store the combustion test in the memory.

Press the BACKLIGHT key for one second to “freeze” the readings before printing.

Temperature display

Tf	49.2 °C	→ Flue temperature (°C)
Ti	14.6 °C	→ Inlet temperature (°C) Normally set by the flue probe during the fresh air purge.



Press the SEND/PRINT button for 1 second to print the full combustion test.


Press and hold the SEND/PRINT button for approximately 2 seconds to store the combustion test in the memory.

Press the BACKLIGHT key for one second to “freeze” the readings before printing.

Fuel display

SET	FUEL	→ Set the fuel source.
NATU	GAS	→ Fuel source currently selected

Use the  /  scroll to the required fuel source.

Press the  button to select the fuel source. DONE will be briefly displayed on the bottom line of the display.

Date/Time display

14 : 47 : 15	→ Current time. Can be reset via “Menu”.
23 / 01 / 14	→ Current date. Can be reset via “Menu”.

Press the SEND/PRINT button for 1 second to print the full combustion test.

Press and hold the SEND/PRINT button for approximately 2 seconds to store the combustion test in the memory.

Press the BACKLIGHT key for one second to “freeze” the readings before printing.

12. EXAMPLE PRINTOUT IN AMBIENT AIR

The standard printouts are:

```
KANE255
Version 1.00

16 char.header
16 char.header
SerialNo: 012345678

Date:      26 / 10 / 13
Time:      14 : 27 : 08

COMBUSTION
.....

FUEL          NATU GAS

O2  %          20.9
CO2 %          00.0
CO  ppm        000
CO  ppm n      000
O2 REF %       00.0
.....

CAL DUE DATE 25 / 10 / 14
.....

CO/CO2        0.0000

FLUE. °C      -OC-
INLET °C      16.4
FLUE . °C     -OC-

EFF% (C)      -0>-
XAIR  %       -0>-
LOSSES        -0>-
.....
Customer
.....
Appliance
.....
Ref.
.....
```


NOTE: Printouts of stored readings will also include the TEST NO. below the serial number.

KANE255
Version 1.00

16 char.header
16 char.header

SerialNo: 012345678
LOG 001

Date: 26 / 10 / 13
Time: 14 : 27 : 08

COMBUSTION

FUEL NATU GAS

O2 %	20.9
CO2 %	00.0
CO ppm	000
CO ppm n	000
O2 REF %	00.0

CAL DUE DATE 25 / 10 / 14

CO/CO2 0.0000

FLUE. °C	-OC-
INLET °C	16.4
FLUE . °C	-OC-

EFF% (C)	-0>-
XAIR %	-0>-
LOSSES	-0>-

Customer

Appliance

Ref.

13. WHEN YOU FINISH USING THE METER

Remove its' probe from the flue - THE PROBE WILL BE HOT - and let it cool. Do not put the probe in water which will be sucked into the meter, damaging its' pump and sensors.

When the meter's readings return to ambient levels, switch it off. The meter counts down from 30 before switch off with the pump running to self clean its sensors.

14. ANALYSER PROBLEM SOLVING

If any problems are not solved with these solutions, contact us or an authorised repair center.

Fault symptom	Causes / Solutions
<ul style="list-style-type: none"> • Oxygen too high • CO₂ too low 	<ul style="list-style-type: none"> • Air leaking into probe, tubing, water trap, connectors or internal to analyser.
<ul style="list-style-type: none"> • CO reading (- - -) 	<ul style="list-style-type: none"> • Analyser was stored in a cold environment and is not at normal working temperature. • CO sensor needs replacing. • Pump is switched off
<ul style="list-style-type: none"> • Batteries not holding charge • Analyser not running on mains adapter. 	<ul style="list-style-type: none"> • Batteries exhausted. • AC charger not giving correct output. • Fuse blown in charger plug.
<ul style="list-style-type: none"> • Analyser does not respond to flue gas 	<ul style="list-style-type: none"> • Particle filter blocked. • Probe or tubing blocked. • Pump not working or damaged with contaminants.
<ul style="list-style-type: none"> • Net temperature or Efficiency calculation incorrect. 	<ul style="list-style-type: none"> • Ambient temperature set wrong during Automatic Calibration.
<ul style="list-style-type: none"> • Flue temperature readings erratic 	<ul style="list-style-type: none"> • Temperature plug reversed in socket. • Faulty connection or break in cable or plug.
<ul style="list-style-type: none"> • T flue or T nett displays -(-OC-) 	<ul style="list-style-type: none"> • Probe not connected.
<ul style="list-style-type: none"> • X-Air, EFF display (-O>-) 	<ul style="list-style-type: none"> • CO₂ reading is below 2%.
<ul style="list-style-type: none"> • Analyser just continually beeps 	<ul style="list-style-type: none"> • Turn dial back to MENU and press ENTER

15. ANALYSER ANNUAL RECALIBRATION AND SERVICE

Although sensor life is typically more than five years, the analyser should be re-calibrated and serviced annually to counter any long-term sensor or electronics drift or accidental damage.

Local regulations may require more frequent re-calibration.

In the UK Kane International has service facilities at Atherton near Manchester (Tel: 01942-873434), the primary service centre for UK customers and at Welwyn Garden City in Hertfordshire (Tel: 01707-375550), the primary service centre for non-UK customers.

By sending your analyser back to Kane for an annual fixed price service (check www.kane.co.uk for details) you have the opportunity to extend the warranty on your analyser to 5 years.

Returning your analyser to Kane

When returning your KANE255, please always ensure that you enclose:

- ✓ Your full contact details
- ✓ A daytime telephone number
- ✓ Details of faults you might have experienced

Packing your analyser

When returning your analyser, please pack it appropriately to prevent any damage during transit.

Before sealing your package, please ensure that you have enclosed the items listed above and that it is clearly marked for the attention of:

Northern Service Centre
Kane International Ltd
Gibfield Park Avenue
Atherton
Manchester
M46 0SY

Sending your analyser

Once the analyser has been securely packed then your package is ready for shipment back to Kane. If you do not have an account with a courier company you can take your package to your local Post Office. It is advisable to send the package by Special Delivery so that it is insured and traceable while in transit.

When we receive your analyser

On receipt of your package, our Service Engineers will inspect the analyser and any accessories and confirm to you the total service cost. Once you have accepted this the work will be carried out, and upon completion the analyser returned to you by Fed Ex "Next Day Service".

If you have any questions that we haven't answered, please feel free to contact our Northern Service Centre:

Tel: 01942 873434
Fax: 01942 873558
Email: nservice@kane.co.uk

Service Returns (Simply cut out and attach to your package)

Northern Service Department
Kane International Ltd
Gibfield Park Avenue
Atherton
Manchester
M46 0SY



Northern Service Department
Kane International Ltd
Gibfield Park Avenue
Atherton
Manchester
M46 0SY



Northern Service Department
Kane International Ltd
Gibfield Park Avenue
Atherton
Manchester
M46 0SY



16. METER SPECIFICATION

(NOTE MAY BE SUBJECT TO CHANGE)

Parameter	Range	Resolution	Accuracy
Temp Measurement			
Flue Temperature	0-600°C	0.1°C	±2°C ±0.3% reading
Inlet Temperature (Internal sensor)	0-50°C	0.1°C	±1°C ±0.3% reading
Inlet Temperature (External sensor)	0-600°C	0.1°C	±2°C ±0.3% reading
Gas Measurement			
Oxygen ^{*2}	0.21%	0.1%	±0.3%
Carbon Monoxide ^{*1}	0-20ppm 21-2,000ppm nom 4,000ppm max for 15 mins	1ppm	±3ppm ±5% of reading
Carbon Dioxide ^{*1}	0-20%	0.1%	±0.3% volume
Efficiency ^{*2}	0-99.9%	0.1%	±1.0%
Excess Air ^{*2}	0-250%	0.1%	±0.2%

Pre-programmed Fuels	Natural gas, Light Oil, Propane, Butane, LPG, Wood Pellets.
Dimensions	
Weight	1kg / 2.2lb
Handset	200mm / 7.9" x 45mm / 1.8" x 90mm / 3.5"
Probe	L300mm / 11.8" x Dia 6mm / 0.25" with 200mm / 7.8" long stainless steel shaft, type K thermocouple and 3m / 6ft long neoprene hose
Ambient Operating Range	+0°C to +40°C / 32-104°F 10% to 90% RH non- condensing
Storage Capacity	20 sets of test results in volatile memory
Battery Life	4 AA cells >8 hours using Alkaline AA cells
Charger (optional)	110Vac/220 Vac nominal for NMiH batteries only 12v in vehicle charger for NMiH batteries only

*1 Using dry gases at STP

*2 Calculated

17. ELECTROMAGNETIC COMPATIBILITY

European Council Directive 89/336/EEC requires electronic equipment not to generate electromagnetic disturbances exceeding defined levels and have adequate immunity levels for normal operation. Specific standards applicable to this meter are stated below.

As there are electrical products in use pre-dating this Directive, they may emit excess electromagnetic radiation levels and, occasionally, it may be appropriate to check the meter before use by:

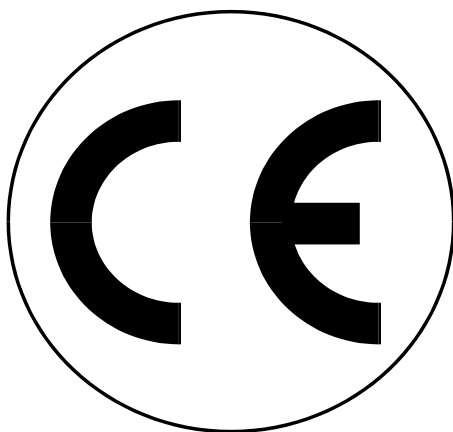
Use the normal start up sequence in the location where the meter will be used.

Switch on all localized electrical equipment capable of causing interference.

Check all readings are as expected. A level of disturbance is acceptable.

If not acceptable, adjust the meter's position to minimize interference or switch off, if possible, the offending equipment during your test.

At the time of writing this manual (Dec 2002) Kane International Ltd are not aware of any field based situation where such interference has occurred and this advice is only given to satisfy the requirements of the Directive.



This product has been tested for compliance with the following generic standards:

EN 61000-6-3 : 2011
EN 61000-6-1 : 2007

and is certified to be compliant

Specification EC/EMC/KI/K200S details the specific test configuration, performance and conditions of use.

Please Note: Batteries used in this instrument should be disposed of in accordance with current legislation and local guidelines.

APPENDIX 1 - MAIN PARAMETERS:

Here are the legends used and what they mean:

- O₂ :** Oxygen reading in percentage (%)
- O2R:** Oxygen reference setting. '----' means switched off or set to 0%.
- T Flue:** Temperature measured by the flue gas probe in Centigrade. It displays ' - OC -' if the flue probe is disconnected.
- T Inlet:** The temperature measure from the flue probe during the fresh air purge will be used as the inlet temperature. If no probe is connected then the internal ambient temperature of the KANE255 will be used as the inlet.
- T Nett :** Nett temperature calculated by deducting the **AMBIENT** or **INLET** temperature from the measured **FLUE** temperature. Displays in either Fahrenheit (°F) or Centigrade (°C) or and will display ' - - -' if the flue probe is not connected.
- COp:** Carbon Monoxide reading displayed in ppm (parts per million). ' - - -' is displayed if there is a fault with the CO sensor or the instrument has not set to zero correctly, switch off instrument and try again.
- COm:** Carbon Monoxide displayed in mg/m³.
- CO_n:** Carbon Monoxide in ppm normalised to the O2R value viewed on the AUX screen
- COM:** Carbon Monoxide in mg/m³ normalised to the O2R value viewed on the AUX screen
- R:** CO/CO₂ Ratio: measured CO divided by measured CO₂
- CO₂ :** Carbon Dioxide calculation determined by fuel type. This is only displayed when a combustion test is being carried out. ' - - -' is displayed while in fresh air.

EFF : Combustion efficiency calculation displayed in percentage either as Gross (G) or Nett (N) or Condensing Nett (C) - Use **MENU** to change. The calculation is determined by fuel type and uses the calculation in British Standard BS845. The efficiency is displayed during a combustion test, ' - - - ' is displayed while in fresh air.

X - AIR : Excess air calculated from the measured oxygen and type of fuel used.
Displays reading during a combustion test. ' - - - ' is displayed while in fresh air.

Losses : Losses calculated from Oxygen and type of fuel. Displays reading during a combustion test. ' - - - ' is displayed while in fresh air.

BAT Displays the Battery power available in %

When the LO BAT symbol appears this indicates the batteries are at less than 10% of charge and should be replaced, readings may be affected if used with low power batteries. Warning: all stored readings are lost when the batteries are removed or become exhausted.


DATE : Date shown as day, month and year. The order can be changed using the menu function. Date is recorded when each combustion test is printed.

TIME : The time is shown in hours and minutes, expressed in "Military" time or the 24hr clock. Time is recorded when each combustion test is printed.

Note! When changing the batteries on the instrument the memory will store the date and time for up to one minute, if outside this time it may be necessary to re-enter the details.

Date and time may also need to be reset if re-chargeable batteries are allowed to totally discharge.

APPENDIX 2 - SYMBOLS USED ON THE DISPLAY

R	CO/CO ₂
λ	Excess Air
	Loss %: 100% minus loss % = efficiency %
TF	Flue temperature
TI	Inlet temperature
ΔT	Nett temperature
EfG	Gross efficiency
EfN	Nett efficiency
EfC	Condensing efficiency
- PO -	Pump off
-O>-	Calculated oxygen greater than 18% so calculation is disabled
-OC-	Open circuit temperature input
CAL	Number of days left before recalibration is due



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.