COA
Carbon Monoxide Analyzer
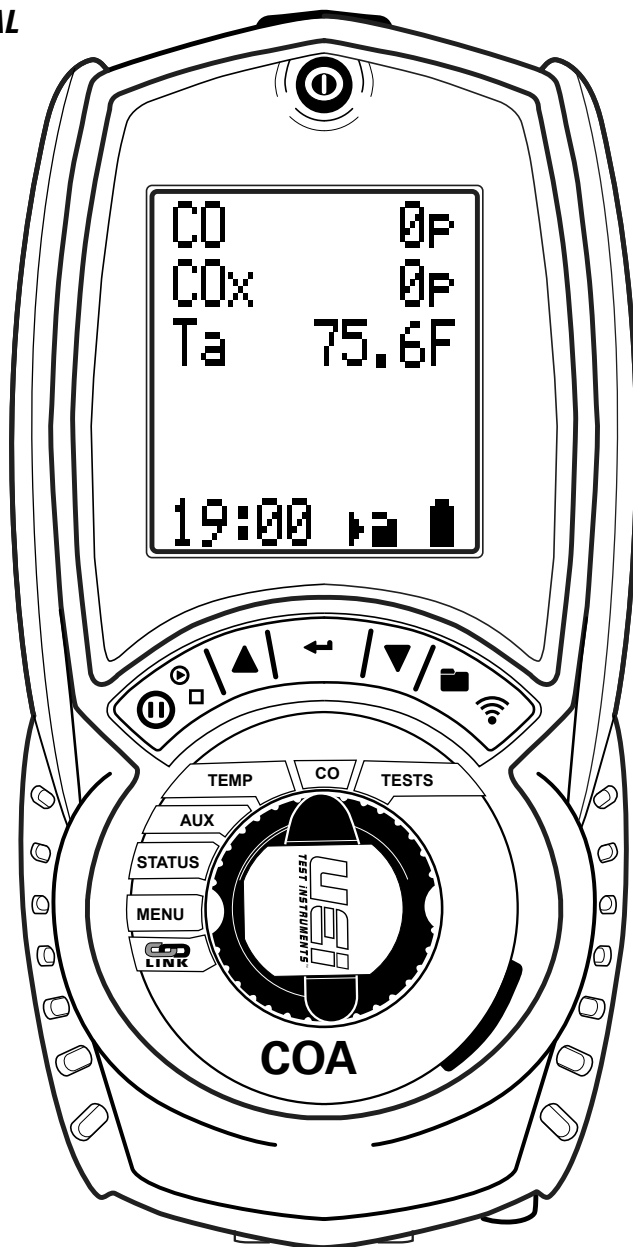
CO   0P
COx   0P
Ta   75.6F

19:00

TEMP   CO   TESTS
AUX
STATUS
MENU
LINK

COA

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UEi
SERVICE+

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YEAR
WARRANTY

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TABLE OF CONTENTS

Your analyzer measures:

- **Carbon Monoxide (CO)**
- **Differential Temperature**

Your analyzer performs:

- **Room CO & Sweep Tests**

Your analyzer is supplied with:

Protective rubber sleeve with magnets for hands-free operation

Flue gas sample probe with integral temperature sensor

USB Battery charger & 3 NiMH rechargeable batteries

Low flow detection to stop water entering analyzer

Large 6 line display showing data & test results - Bottom line also displays analyzer status

Test reports to send to an optional KANE infrared KANE printer or KANE LIVE™ App

45 log memory for any combination of Combustion, Aux, & Temperature tests

Memory for 40 Room CO tests & 50 Sweep tests

2 lines of 24 characters to personalize with your details

HIGH CO LEVEL PROTECTION

Your analyzer is automatically protected from high levels of CO - When CO is above maximum range analyzer pump stops and CO purge pump starts.

Your analyzer displays - - - - until CO levels fall below maximum range

KANE ⌒ LINK™

Wirelessly connect optional KANE LINK™ devices to your KANE LINK™ analyzer - Once connected, they stay connected until you remove them.

When powered on, they replace or add to measurements your analyzer makes.

See section 11 to add manage or remove optional KANE LINK™ devices.

ANALYZER FRONT & BOTTOM
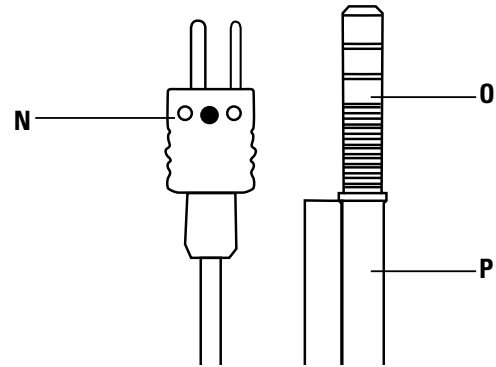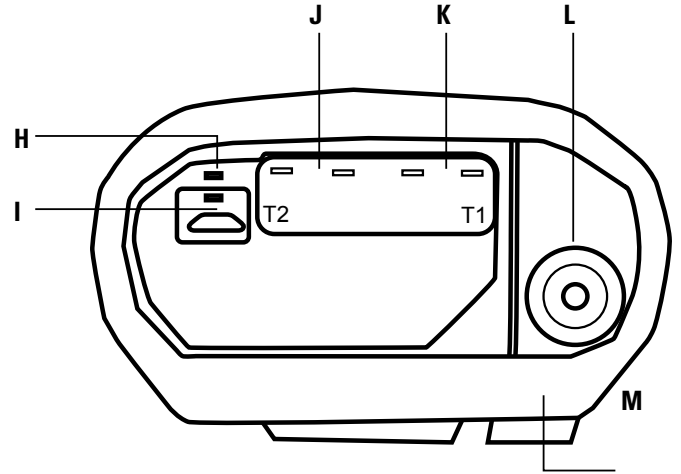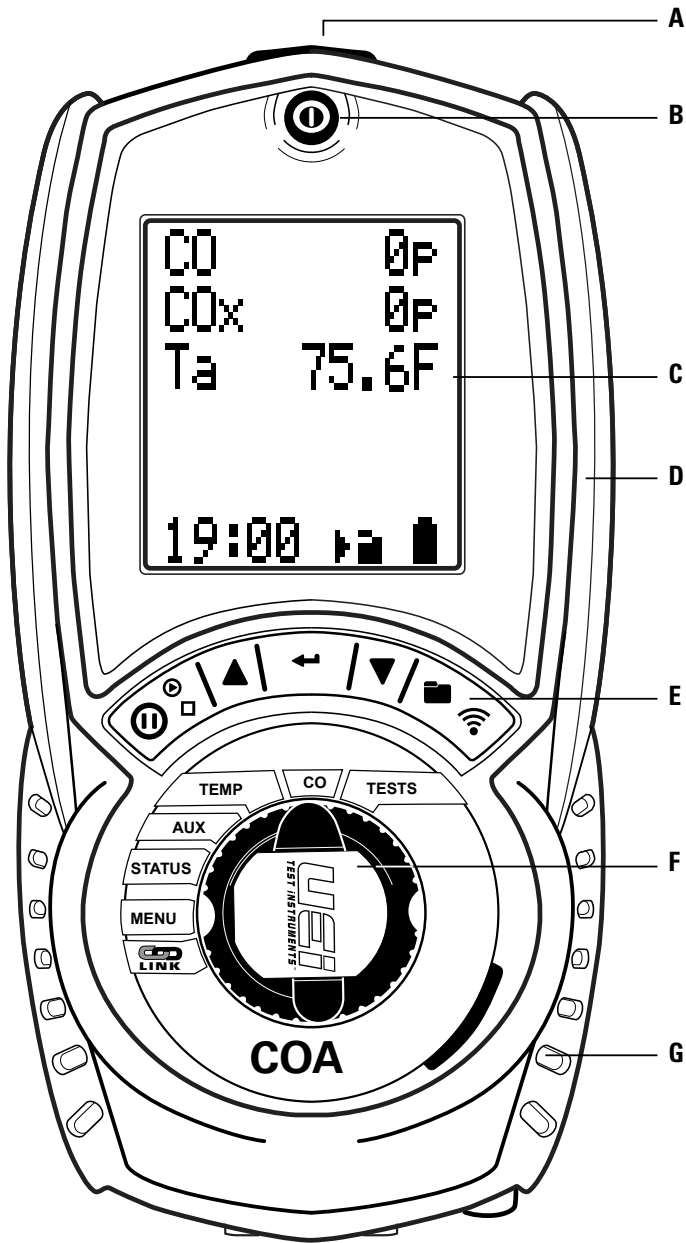
A. **Infrared printer emitter & torch**
B. **Power On / Off**
C. **6 line display with backlight**
D. **Protective rubber sleeve**
E. **Keypad**
F. **Rotary dial**
G. **Water trap, particle filter & water stop filter**
H. **Battery status indicator**
I. **Battery charger**

J. **Ambient temperature socket T2 -Differential**
K. **Gas temperature socket T1**
L. **Gas sample inlet**
M. **Water trap drain with red plug**
N. **Gas sample probe temperature plug -**
   Connect to Temperature T1
   Narrow (+ve) pin must be on right side
O. **Red connector - Connect to gas sample inlet**
P. **Gas sample probe hose**

4

ANALYZER BACK & PROBE
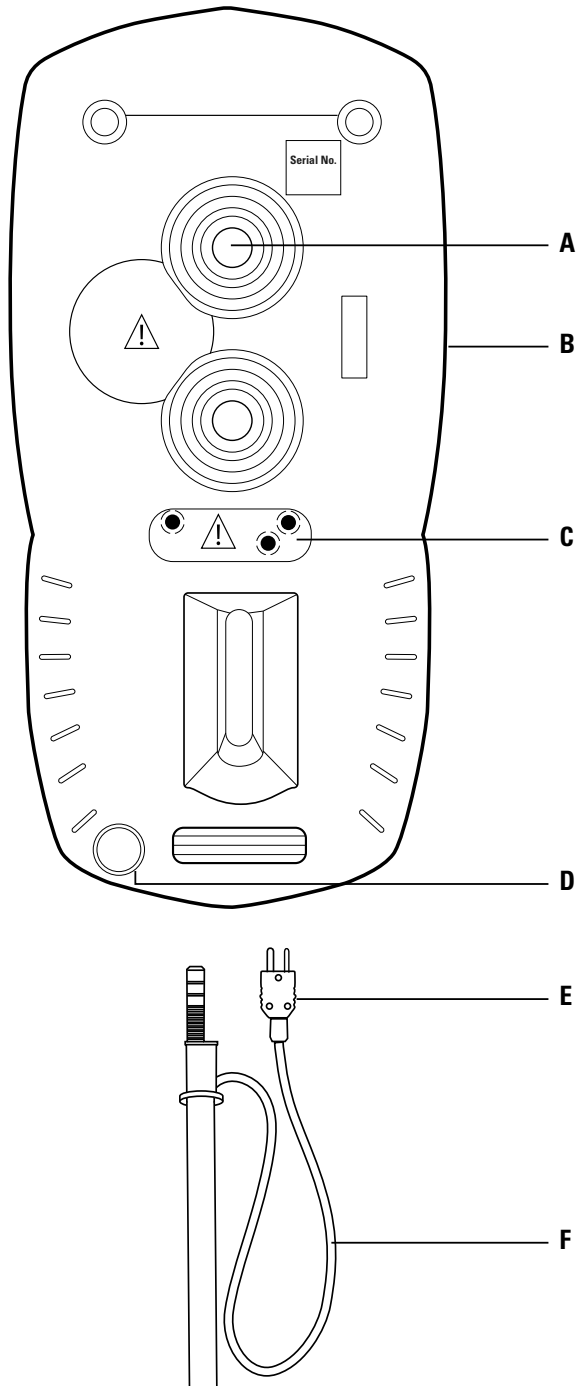
A. **Magnets x 2**
B. **Protective rubber sleeve**
C. **Gas sample exhaust ⚠ DO NOT COVER**
D. **Water trap drain with red plug**
E. **Gas sample probe temperature plug**

F. **Gas sample probe temperature sensor cable**
G. **Gas temperature probe sensor**
H   **Gas sample probe**
I.   **Gas sample probe depth stop cone**
J.   **Gas sample probe hose**

KEYPAD & ROTARY DIAL - FROM LEFT TO RIGHT

KEYPAD
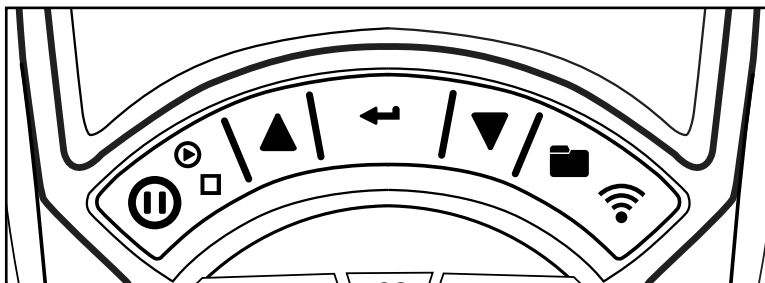
SYMBOL	FUNCTION
PUMP	Long press to turn pump on or off
⏸	DATA HOLD - Short press to hold current data on screen - Short press again to return to readings
△	NAVIGATE UP - Short press to scroll up
ENTER	ENTER - Press to select current option - also selects torch in some dial positions
▽	NAVIGATE DOWN - Short press to scroll down
▬▬	STORED LOG - Long press to store data
SEND	PRINT LOG - Short press to transfer a test result or log - Analyzer offers a destination choice

KEYPAD & ROTARY DIAL - FROM LEFT TO RIGHT

ROTARY DIAL
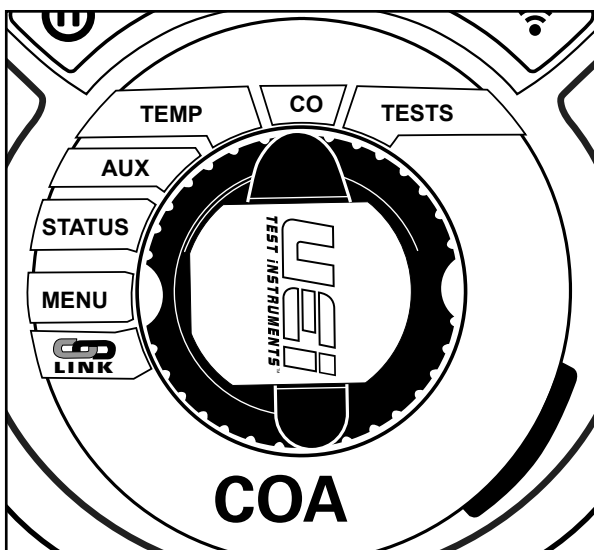
SYMBOL	FUNCTION
⌒	Add, manage or remove KANE LINK™ devices & App settings - see section 1
MENU	Set up your Analyzer - see page 8
STATUS	View Analyzer status - see page 10
AUX	Personalize Analyzer display - see page 11
TEMP	Measure Temperature - see page 12
CO	Measure CO - see page 14
TESTS	Perform Sweep or Room CO Test - see page 15

Fit and charge your analyzer batteries for 8 hours
Power on & off your analyzer
Set up your analyzer to your requirements before use

FIT, REPLACE & CHARGE BATTERIES

BATTERY TYPE

Your analyzer uses rechargeable Nickel Material Hydride (NiMH)
batteries.- Using other battery types may void your analyzer warranty.

⚠ WARNING

You can use Alkaline batteries but do not charge analyzer when fitted.
Do not mix NiMH cells with different capacities or from different manufacturers - All batteries must be identical.

FIT OR REPLACE BATTERIES

1. Turn over analyzer, remove protective rubber sleeve then remove battery
compartment cover
2. Fit 3 NiMH "AA" rechargeable batteries with correct battery polarity
3. Replace battery compartment cover & protective rubber sleeve

UPDATE TIME AND DATE

Reset analyzer time & date after changing batteries.
NOTE: *Your analyzer STATUS bar displays current time, date and*
battery status - Time & date can only be changed when you have no stored logs in analyzer memory to protect integrity of stored logs.

CHARGE NiMH BATTERIES

Your analyzer uses a standard Micro USB connector - For best results
power off before connecting charger.
Charging indicator illuminates then powers off when charging is complete.
First charge for 8 hours - Thereafter NiMH batteries can be topped up any time.
If analyzer enters low power shutdown, 1 hour charge gives approx 2 hours continuous use.

BATTERY DISPOSAL

Always use approved disposal methods protecting the environment.

POWER ON & QUICK START

Your analyzer has 2 power on modes:

- Automatic zero calibration countdown - When measuring a gas
- Quick start - When measuring other parameters eg: temperature or pressure

To measure a gas, rotate dial to any position measuring gas - Your analyzer automatically starts a zero calibration countdown when powered on.
Power on analyzer by pressing ⊙ button for 2 seconds.

NOTE: *Always power on analyzer in fresh outdoor air when performing automatic zero calibration countdown.*
NOTE: *Connect gas probe hose to analyzer gas inlet and gas probe temperature plug to analyzer flue gas temperature socket T1.*

To measure other parameters, rotate dial to any position not measuring gas e.g: **MENU, STATUS, TEMP / PRS** - Your analyzer automatically displays selected parameters

ANALYZER DISPLAY & OPERATION SUMMARY

Your analyzer displays 5 lines of tests & a status bar.
Display backlight illuminates for 10 seconds with each button press.
Rotate dial to the task or function you need to perform.
Navigate through options and menu choices using ▲ & ▼ then **ENTER**.
Button presses are either short or long

SET UP YOUR ANALYZER - ROTATE DIAL TO MENU

This section helps you set up your analyzer using the rotary dial & keypad.

SET UP OPTIONS

Rotate dial to MENU to see options
Press ▲ & ▼ to select option, then press **ENTER** when selected option is between the 2 arrows on screen.

MENU
LOGS
CODE
► TIME ◄ ——————— Menu option to change
DATE
HEADER
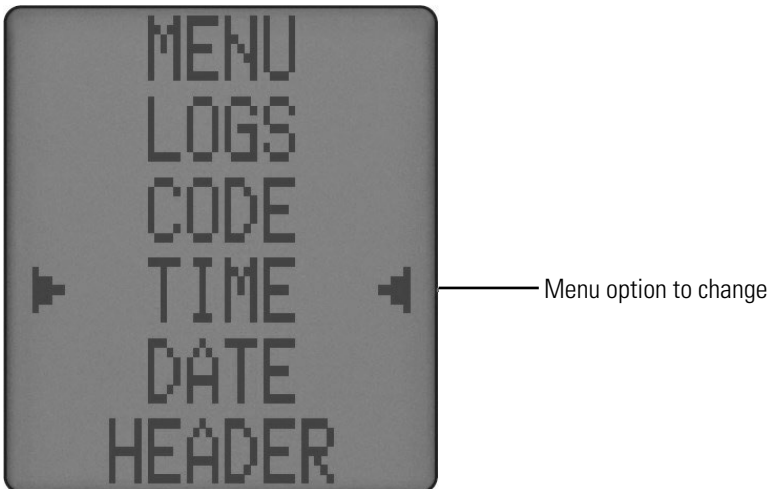
Press ▲ or ▼ to change option then press **ENTER** to confirm.
To exit **MENU** rotate dial to any position - Unsaved changes will be lost.

CHANGE ANALYZER SETTINGS

OPTION	YOUR CHOICE	NOTE
TIME	SET ANALYZER TIME	Press **ENTER** then ▲ or ▼ & **ENTER** to set HH:MM:SS NOTE: Only possible if memory logs empty
DATE	SET ANALYZER DATE	Press **ENTER** then ▲ or ▼ & **ENTER** to set DD:MM:YY NOTE: Only possible if memory logs empty
HEADER	SET ANALYZER PERSONALIZE ANALYZER HEADER DISPLAY & TEST REPORTS DATE	Personalize 2 lines of 24 characters - Press **ENTER**, then select line to edit with ▲ or ▼ & **ENTER**. Use & to select correct character then press **ENTER** To set HEADER via KANE LIVE™ app: Select CONTROLS on app Select ANALYZER HEADERS, Select LINE to edit Select SAVE to set header
PRINTER TYPE	SELECT KANE PRINTER	Press **ENTER** then ▲ or ▼ & **ENTER** to select KMIRP or IRP-2/3
LOGS	LOGS	View current memory usage & stored logs
C / F	CHANGE TEMPERATURE SCALE	Change the current temperature scale

NOTE: *Your analyzer STATUS bar displays current time, date and*
battery status - Time & date can only be changed when you have no stored logs in analyzer memory to protect integrity of stored logs.

NOTE: *You can use KANE LIVE™ APP to personalize analyzer header on display and test reports.*

SET UP MENU CONTINUED

OPTION	YOUR CHOICE	NOTE
AIRFLOW	SET AIRFLOW SCALE	Select scale for DTHA2 airflow measurement
LANGUAGE	CHANGE LANGUAGE	Change analyzer language
UTIL	UTIL	Select UTIL to access utility menu - ▲ or ▼ & **ENTER** to select from: INFO - Shows analyzer firmware, wireless firmware & date next calibration due LEAK - Performs analyzer system leak test B'LIGHT - Selects backlight time from 15 to 300 seconds NOTE: Extending backlight time reduces battery life
CODE	CODE	Password protected for authorised service agents only - Default to 000000

This section explains how to use your analyzer with the rotary dial & keypad.

STATUS BAR OPTIONS

Your analyzer status bar also offers options based on your current task.

Use ▲ or ▼ to view

11:02 ▶📶 🔋	Always available - Display current analyzer status
09/05/23	Always available - Displays current date
EDIT?	Available in AUX position - See section 7.2 to change displayed readings on screen

NOTE: *Your analyzer STATUS bar displays current time, date and*
battery status - Time & date can only be changed when you have no stored logs in analyzer memory to protect integrity of stored logs.

NOTE: *You can use KANE LIVE^TM APP to personalize analyzer header on display and test reports.*

SET UP MENU CONTINUED

OPTION	YOUR CHOICE	NOTE
AIRFLOW	SET AIRFLOW SCALE	Select scale for DTHA2 airflow measurement
LANGUAGE	CHANGE LANGUAGE	Change analyzer language
UTIL	UTIL	Select UTIL to access utility menu - ▲ or ▼ & **ENTER** to select from: INFO - Shows analyzer firmware, wireless firmware & date next calibration due LEAK - Performs analyzer system leak test B'LIGHT - Selects backlight time from 15 to 300 seconds NOTE: Extending backlight time reduces battery life
CODE	CODE	Password protected for authorised service agents only - Default to 000000

AUX - YOUR ANALYZER PERSONAL HOME SCREEN

Rotate dial to AUX to view or change your home screen, change fuel and power on or off your analyzer torch.

You can change lines 1 to 5 of your analyzer AUX screen to display information you always want to see

O2   20.95% ———— Line 1
CO   56P ———— Line 2
Ra 0.0000 ———— Line 3
T1   20.0c ———— Line 4
XAIR 0.0% ———— Line 5
11:45 ▸ 🔋 ———— Status bar - see section 7.1.5 for default
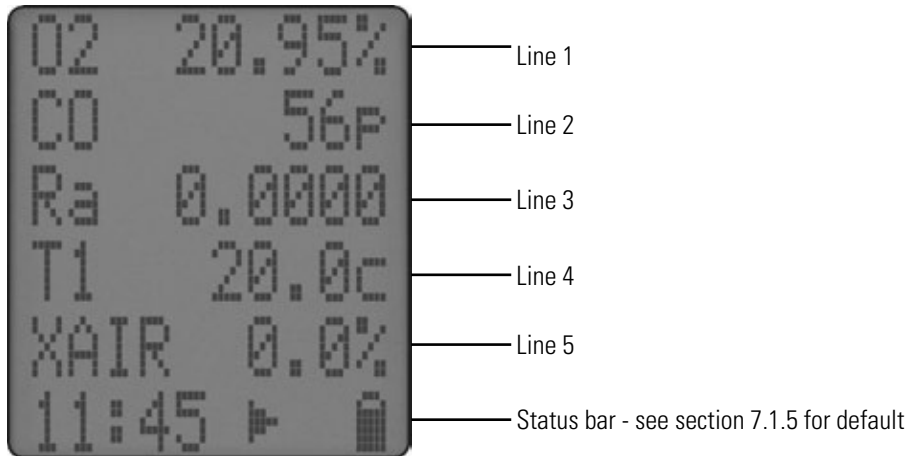
Change Your Screen

Press ▲ or ▼ until **EDIT** appears on status bar then long press **ENTER** until cursor flashes and line number appears in status bar.

Use ▲ or ▼ to select your parameter then press **ENTER** to store.

Repeat to change next line.

Power On / Off Torch

Press ▲ or ▼ to display time then press & hold **ENTER** until torch powers on / off.

NOTE: *You can change fuel or power on / off torch in other rotary dial positions eg: AUX / CO.*

TEMP - MEASURE TEMPERATURE

Temperature

Rotate dial to **TEMP** and connect your Type K temperature probe thermocouple plug to analyzer gas temperature socket T1 - See section 2 where to connect.

To measure differential temperature, connect another Type K temperature probe thermocouple plug to analyzer ambient temperature socket T2.

To measure flow & return temperature, use T1 for flow & T2 for return temperature.

If a probe is not connected to T2, analyzer internal temperature calculates net temperature.

See section 8 to send, print, store & manage tests.

T1　21.0c	—————— Use T1 connection for flow temperature measurement
T2　21.0c	—————— Use T2 connection for return temperature measurement
⌂T　0.0c	—————— Net temperature calculation
11:45 ▶▐▌ ▐	—————— Status bar
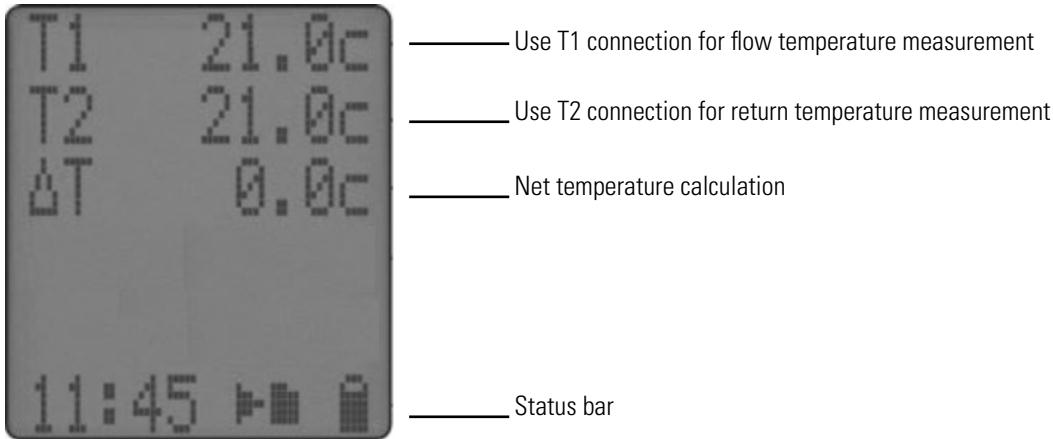
See section 8 to send, print, store & manage tests.

Co Section

Rotate dial to CO position to measure and view CO live values.

CO　390p	———— Ambient CO measurement
08:26 ▶ ▐	
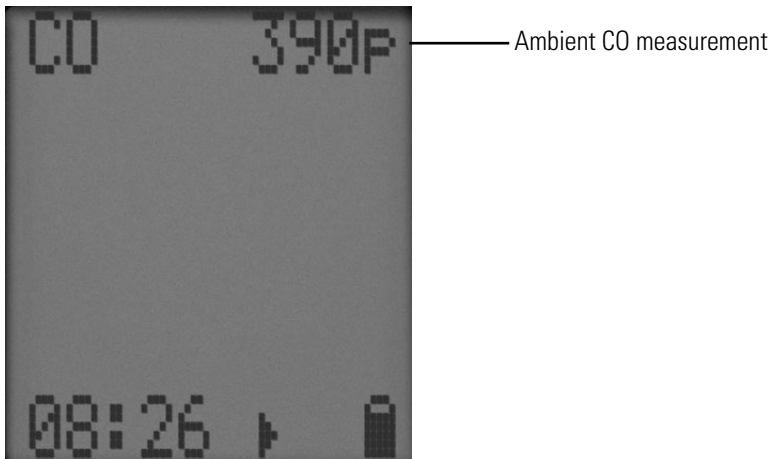
TEST MENU

Rotate dial to Tests to edit and specific tests.

Appliance Sweep Test

⚠ Appliance sweep tests are defined in UK standard BS7967 -
You must be competent to perform these tests.

This will perform a 2 minute sweep test, once the test is started it will automatically measure ambient CO and ambient CO2 (if fitted).

On completion, your analyzer will automatically store in memory with a log number.

Send Sweep tests to your optional KANE-IRP3 printer by pressing ENTER or wirelessly to your KANE LIVE^{TM} App using & ENTER.

Navigating Stored Tests

 ——— Select view from test option using ▲ or ▼ & **ENTER** to display most recent test
Long press ▲ or ▼ to navigate to previous tests

To delete room tests, rotate dial from room to any position then return.

Use ▲ or ▼ to select DEL ALL then press & hold **ENTER** to delete all room tests.

Room - CO Migration & Appliance Sweep Test

Rotate dial to **ROOM** to perform a CO migration test, an appliance sweep test or a simultaneous multiple room test

Rotate dial to **ROOM**, use ▲ or ▼ to select test from room test types in table in page 14 room test types then press **ENTER** and follow on screen instructions.

If fitted, ambient CO2 levels are also recorded.
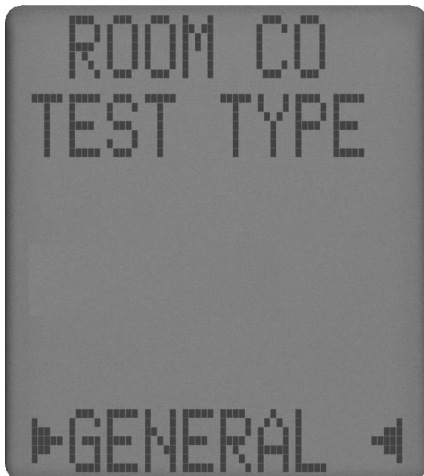
⚠ CO migration room tests are defined in UK standard BS7967 - You must be competent to perform these tests.

⚠ Appliance sweep tests are defined in UK standard BS7967 - You must be competent to perform these tests.

TEST

Room Test Types

Use ▲ or ▼ & ENTER to select test from these options:

TEST TYPE	DURATION	LIMITS / ALARM LEVELS
GENERAL	15 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
SWEEP TEST	2 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
MIGRATION TEST	15 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
TYPE C SEALED APPLIANCE	15 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
TYPE B BOILER OPEN FLUE	15 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
TYPE A COOKER	30 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
TYPE A WATER HEATER	5 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm
TYPE A SPACE HEATER	30 minute test with results stored every minute	LIMIT = 10ppm ALARM - 30ppm

Testing A Room For CO & CO2

When you start a room test your analyzer automatically measures ambient CO - It also measures ambient CO2 if fitted.

CO ONLY

ROOM CO
TEST 1/15 —— Test 1 of 15
Test 30 = maximum 30 tests in series

INT. 31s —— Test interval time

CO 0P —— Ambient CO measurement

LIMIT 10P —— CO limit in ppm

ALARM 30P —— CO alarm limit in ppm
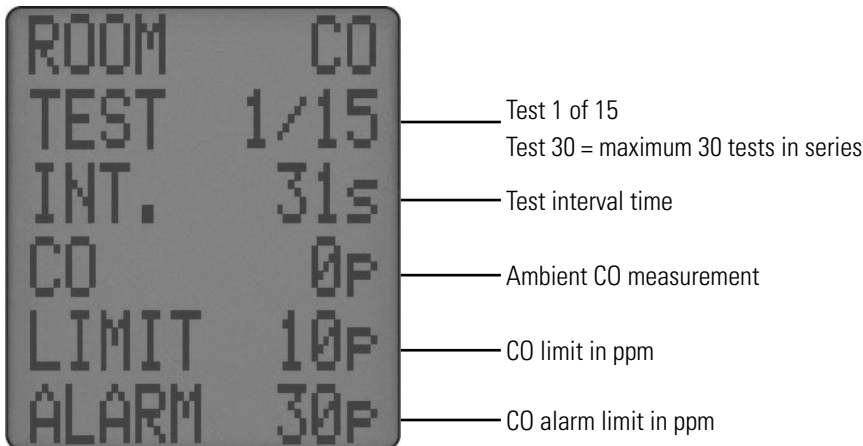
TEST

Testing A Room For CO & CO2

CO & CO2

ROOM CO
TEST 1/15 ——— Test 1 of 15
——— Test 30 = maximum 30 tests in series
INT. 27s ——— Test interval time
CO2 497P ——— Ambient CO2 measurement
CO 0P ——— Ambient CO measurement
LIMIT 10 ——— CO limit in ppm
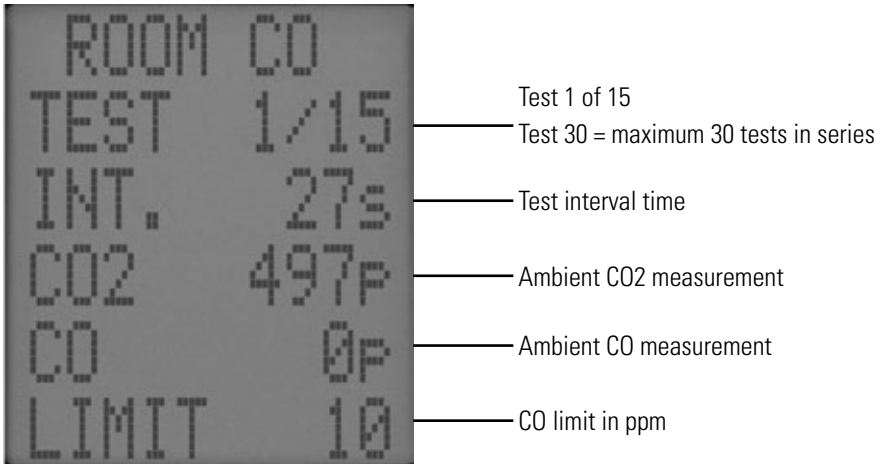
You can stop a **ROOM** test any time by pressing **ENTER**.

Otherwise it automatically stops after the pre-set time.

ROOM tests are automatically stored in memory with a log number.

Send **ROOM** tests to your optional KANE-IRP3 printer by pressing **ENTER** or wirelessly to your KANE LIVE™ App using ▲ & **ENTER**

NAVIGATING STORED TESTS

► VIEW ◄ ——— Select view from test option using ▲ or ▼ & **ENTER** to display most recent test
Long press ▲ & ▼ to navigate to previous tests.

To delete room tests, rotate dial from room to any position then return.

Use ▲ or ▼ to select DEL ALL then press & hold **ENTER** to delete all room tests.

NOTE: *Selecting DEL ALL deletes all stored Room tests.*

Kane ⊂⊃ Link™ Simultaneous Multi Room Test

Your analyzer can test up to 4 room simultaneously with up to 4 optional COL CO monitors.

KANE LINK™ to add, manage or remove optional KANE LINK™ devices.

TEST 2/15
INT. 6s
WCO1 0P ——— COL measurement in room 1
WCO2 12P ——— COL measurement in room 2
WCO3 0P ——— COL measurement in room 3
WCO4 0P ——— COL measurement in room 4
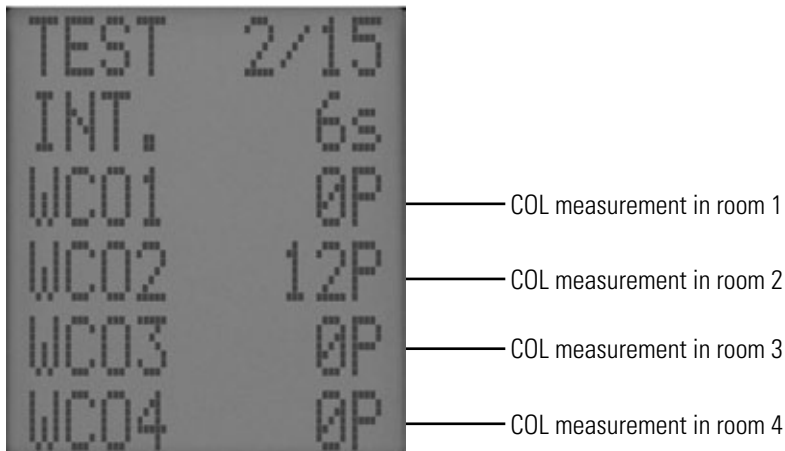
This section explains how to manage your test results - in summary:

Short press **SEND** to send a test to your optional KANE-IRP3 printer or **KANE LIVE**TM App.

Long press **SEND** for 2 seconds to store a test, called log.

SEND TO OPTIONAL KANE INFRARED PRINTER

To print test result or logs use optional KANE infrared printer.

Set printer type - See page 9

Power on printer and place printer infrared receiver in line with analyzer emitter - Allow 6 inch gap between analyzer infrared emitter & printer.

Short press SEND to transfer a test result or log - Analyzer offers a destination choice.

SEND TO KANE LIVETM

Ensure your analyzer is paired correctly to KANE LIVETM - See page 22

Short press SEND to transfer a test result or log - Analyzer offers a destination choice.

ANALYZER MEMORY

Your analyzer stores up to 45 tests, called logs.

For example: combustion logs or any combination of combustion, Aux & Temperature logs up to 45.

Your analyzer also stores up to 40 Room CO tests and 50 Sweep tests called logs - To view, rotate dial to relevant test.

A logged data icon displays when your analyzer stores a test - see section 7.1.4 - Status Bar Icons

To view memory status, rotate dial to **MENU** then select **LOGS** using ▲ or ▼ & **ENTER**.

LOGS	
COMB. 11	—— No. of stored Combustion logs
AUX. 1	—— No. of stored Auxiliary logs
TMP 3	—— No. of stored Temperature logs
MEM. 15/45	—— Total memory used
► VIEW ◄	—— Memory menu options

MEMORY MENU OPTIONS

► VIEW ◄	—— View stored logs if available
►DEL ALL ◄	—— Delete all stored logs if available - to delete long press **ENTER**
► EXIT ◄	—— Return to main menu
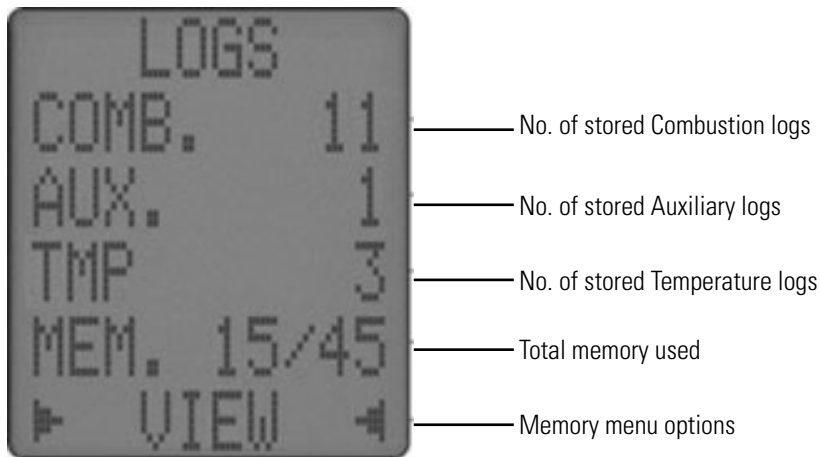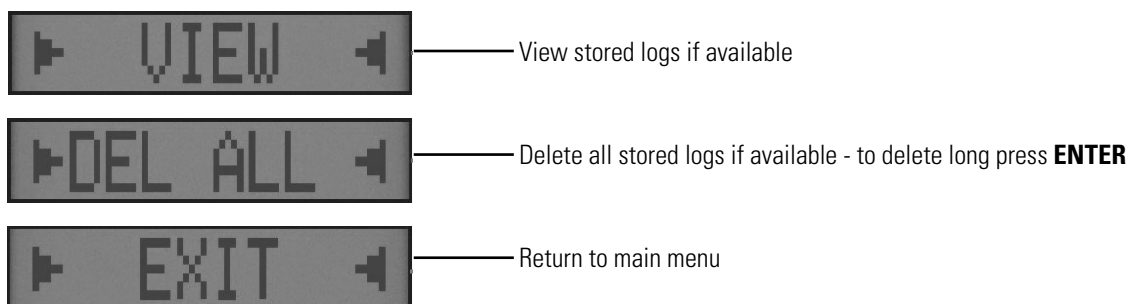
VIEW & MANAGE STORED LOGS

To view your test, select VIEW from LOGS Menu:

LOGS
VIEW

EXIT
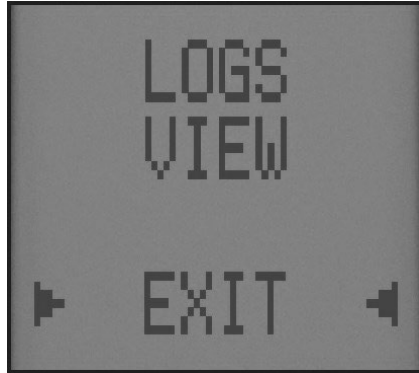
List of available LOGS
Navigate and select using ▲ or ▼ & **ENTER**

Select Log Type

COMB. — View Combustion Logs

AUX. — View Auxiliary Logs

TMP — View Temperature Logs

EXIT — Return to previous menu

Select Log Stored
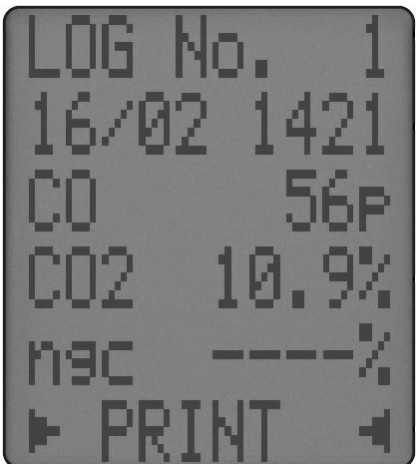
LOG No. 1 — LOG Number of that type

16/02 1421 — Time & date of LOG

CO 56p

CO2 10.9% — Measurements & calculations specific to log type

ngc ----%

PRINT — Navigation menu options

SELECT LOG TYPE

▶ PRINT ◀ ——————— Print current selected log

▶ NEXT ◀ ——————— Navigate to next log

▶PREVIOUS◀ ——————— Navigate to previous log

▶ EXIT ◀ ——————— Return to main menu

SAMPLE TEST REPORTS

Aux	Temperature	DTHA2	Measure	Sweep Test

Aux

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG               03
DATE        16/08/24
TIME        11:14:15
-----------------------
CAL DUE     13/08/25
-----------------------
AUXILIARY
-----------------------
FUEL          NAT GAS
CO        ppm      0
COx       ppm    137
T1        °C    49.8
T2        °C    22.7
NETT      °C    27.1
-----------------------
CUSTOMER
.......................
.                     .
.                     .
.......................

APPLIANCE
.......................
.                     .
.                     .
.......................

REFERENCE
.......................
.                     .
.......................
```

Temperature

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG               01
DATE        16/08/24
TIME        10:47:02
-----------------------
CAL DUE     13/08/25
-----------------------
TEMP.
-----------------------
T1        °C    50.4
T2        °C    22.4
NETT      °C    28.0
-----------------------
CUSTOMER
.......................
.                     .
.                     .
.......................

APPLIANCE
.......................
.                     .
.                     .
.......................

REFERENCE
.......................
.                     .
.......................
```

DTHA2

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG               02
DATE        16/08/24
TIME        10:12:56
-----------------------
CAL DUE     13/08/25
-----------------------
AUXILIARY
-----------------------
DTHA2
V        m/s     2.7
T        °C     21.4
RH       %      59.0
-----------------------
CUSTOMER
.......................
.                     .
.                     .
.......................

APPLIANCE
.......................
.                     .
.                     .
.......................

REFERENCE
.......................
.                     .
.......................
```

Measure

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG               02
DATE        16/08/24
TIME        11:16:22
-----------------------
CAL DUE     13/08/25
-----------------------
MEASURE
-----------------------
CO        ppm     15
Ta        °C    23.1
ATM      mbar   1008
-----------------------
CUSTOMER
.......................
.                     .
.......................

APPLIANCE
.......................
.                     .
.......................

REFERENCE
.......................
.                     .
.......................
```

Sweep Test

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG               01
DATE        16/08/24
TIME        10:17:01
-----------------------
CAL DUE     13/08/25
-----------------------
SWEEP TEST
-----------------------
CO LIMIT  ppm     10
CO ALARM  ppm     30
-----------------------
CO(Max)   ppm      6
-----------------------
CUSTOMER
.......................
.                     .
.......................

APPLIANCE
.......................
.                     .
.......................

REFERENCE
.......................
.                     .
.......................
```

Room Co Migration

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 07
DATE          16/08/24
TIME          14:56:12
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
MIGRATION

LIMIT      ppm     10
ALARM      ppm     30
TESTS              15
------------------------
1 CO       ppm      9
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm      0
6 CO       ppm      0
7 CO       ppm      0
8 CO       ppm      0
9 CO       ppm      0
10 CO      ppm      0
11 CO      ppm      0
12 CO      ppm      0
13 CO      ppm      0
14 CO      ppm      0
15 CO      ppm      0
------------------------
CO(Max)    ppm      9
------------------------

CUSTOMER
........................
.                      .
.                      .
........................

APPLIANCE
........................
.                      .
.                      .
........................

REFERENCE
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Room Co General

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 01
DATE          16/08/24
TIME          11:52:55
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
GENERAL

LIMIT      ppm     10
ALARM      ppm     30
TESTS              15
------------------------
1 CO       ppm      0
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm     25
6 CO       ppm      2
7 CO       ppm      5
8 CO       ppm      0
9 CO       ppm      0
10 CO      ppm      0
11 CO      ppm      0
12 CO      ppm      0
13 CO      ppm      0
14 CO      ppm      0
15 CO      ppm      0
------------------------
CO(Max)    ppm     25
------------------------

CUSTOMER
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APPLIANCE
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Room Co Type A Space Heater

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 02
DATE          16/08/24
TIME          12:11:02
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
TYPE A
SPACE
HEATER

LIMIT      ppm     10
ALARM      ppm     30
TESTS              30
------------------------
1 CO       ppm      0
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm      0
6 CO       ppm      0
7 CO       ppm      0
8 CO       ppm      0
9 CO       ppm      0
10 CO      ppm      0
11 CO      ppm     22
12 CO      ppm      0
13 CO      ppm      0
14 CO      ppm    238
15 CO      ppm      4
16 CO      ppm      0
17 CO      ppm      0
18 CO      ppm      7
19 CO      ppm      0
20 CO      ppm      0
21 CO      ppm      0
22 CO      ppm      0
23 CO      ppm      0
24 CO      ppm      0
25 CO      ppm      0
26 CO      ppm      0
27 CO      ppm      0
28 CO      ppm      0
29 CO      ppm      0
30 CO      ppm      0
------------------------
CO(Max)    ppm    238
------------------------

CUSTOMER
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APPLIANCE
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Room Co Type A Cooker

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KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 04
DATE          16/08/24
TIME          13:14:03
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
TYPE A
COOKER

LIMIT      ppm     30
ALARM      ppm     90
TESTS              30
------------------------
1 CO       ppm      0
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm      0
6 CO       ppm      0
7 CO       ppm      0
8 CO       ppm      0
9 CO       ppm      0
10 CO      ppm      0
11 CO      ppm      0
12 CO      ppm     29
13 CO      ppm      0
14 CO      ppm      0
15 CO      ppm      0
16 CO      ppm      0
17 CO      ppm      0
18 CO      ppm      0
19 CO      ppm      0
20 CO      ppm      0
21 CO      ppm      0
22 CO      ppm      0
23 CO      ppm      0
24 CO      ppm      0
25 CO      ppm      0
26 CO      ppm      0
27 CO      ppm      0
28 CO      ppm      0
29 CO      ppm      0
30 CO      ppm      0
------------------------
CO(Max)    ppm     29
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CUSTOMER
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APPLIANCE
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Room Co Type A Water Heater

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KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 03
DATE          16/08/24
TIME          12:45:22
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
TYPE A
WATER
HEATER

LIMIT      ppm     10
ALARM      ppm     30
TESTS               5
------------------------
1 CO       ppm      5
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm      0
------------------------
CO(Max)    ppm      5
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CUSTOMER
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APPLIANCE
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Room Co Type B Boiler Open Flue

```
KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 05
DATE          16/08/24
TIME          14:02:29
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
TYPE B
BOILER
OPEN FLUE

LIMIT      ppm     10
ALARM      ppm     30
TESTS              15
------------------------
1 CO       ppm     10
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm      0
6 CO       ppm      0
7 CO       ppm      0
8 CO       ppm      0
9 CO       ppm      0
10 CO      ppm      0
11 CO      ppm      0
12 CO      ppm      0
13 CO      ppm      0
14 CO      ppm      0
15 CO      ppm      0
------------------------
CO(Max)    ppm     10
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CUSTOMER
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APPLIANCE
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REFERENCE
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Room Co Type C Sealed Appliance

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KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 06
DATE          16/08/24
TIME          14:36:49
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
TYPE C
SEALED
APPLIANCE

LIMIT      ppm     10
ALARM      ppm     30
TESTS              15
------------------------
1 CO       ppm      0
2 CO       ppm      0
3 CO       ppm      0
4 CO       ppm      0
5 CO       ppm      0
6 CO       ppm      0
7 CO       ppm      0
8 CO       ppm      0
9 CO       ppm      0
10 CO      ppm      0
11 CO      ppm      0
12 CO      ppm      0
13 CO      ppm      0
14 CO      ppm      0
15 CO      ppm      0
------------------------
CO(Max)    ppm      0
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CUSTOMER
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APPLIANCE
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REFERENCE
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Room Co Sweep Test

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KANE
KANE-COA1
SW00182 2.66

COMPANY NAME
TELEPHONE NUMBER

SERIAL NO.    122621003

LOG                 08
DATE          16/08/24
TIME          15:14:05
------------------------
CAL DUE       13/08/25
------------------------

ROOM CO
------------------------
SWEEP
TEST

LIMIT      ppm     10
ALARM      ppm     30
TESTS               1
------------------------
1 CO       ppm    266
------------------------
CO(Max)    ppm    266
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CUSTOMER
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APPLIANCE
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REFERENCE
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SAMPLE SIMULTANEOUS MULTI ROOM TEST REPORTS

Multiroom reports are of individual reports for each room:

Room 1

```
KANE
KANE458S
SW00182 2.51
NAME
NUMBER

SERIAL NO.    122521054

LOG                  01
DATE          27/09/22
TIME          14:19:43
------------------------
CAL DUE       01/01/17
------------------------

KANE79 CAL       VALID
------------------------
ROOM CO
ROOM 1
------------------------
GENERAL

LIMIT      ppm    10
ALARM      ppm    30
TESTS             15
------------------------
1  WCO-1   ppm     0
2  WCO-1   ppm     0
3  WCO-1   ppm     0
4  WCO-1   ppm     0
5  WCO-1   ppm     0
6  WCO-1   ppm     0
7  WCO-1   ppm     0
8  WCO-1   ppm     0
9  WCO-1   ppm     0
10 WCO-1   ppm     0
11 WCO-1   ppm     0
12 WCO-1   ppm     0
13 WCO-1   ppm     0
14 WCO-1   ppm     0
15 WCO-1   ppm     0
------------------------
WCO-1(Max)  ppm    0
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CUSTOMER
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APPLIANCE
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REFERENCE
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Room 2

```
KANE
KANE458S
SW00182 2.51
NAME
NUMBER

SERIAL NO.    122521054

LOG                  02
DATE          27/09/22
TIME          14:19:43
------------------------
CAL DUE       01/01/17
------------------------

KANE79 CAL       VALID
------------------------
ROOM CO
ROOM 2
------------------------
GENERAL

LIMIT      ppm    10
ALARM      ppm    30
TESTS             15
------------------------
1  WCO-2   ppm     0
2  WCO-2   ppm    12
3  WCO-2   ppm    14
4  WCO-2   ppm    13
5  WCO-2   ppm     7
6  WCO-2   ppm     3
7  WCO-2   ppm     0
8  WCO-2   ppm     0
9  WCO-2   ppm     0
10 WCO-2   ppm     0
11 WCO-2   ppm     0
12 WCO-2   ppm     0
13 WCO-2   ppm     0
14 WCO-2   ppm     0
15 WCO-2   ppm     0
------------------------
WCO-2(Max)  ppm   14
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CUSTOMER
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APPLIANCE
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REFERENCE
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Room 3

```
KANE
KANE458S
SW00182 2.51
NAME
NUMBER

SERIAL NO.    122521054

LOG                  03
DATE          27/09/22
TIME          14:19:43
------------------------
CAL DUE       01/01/17
------------------------

KANE79 CAL       VALID
------------------------
ROOM CO
ROOM 3
------------------------
GENERAL

LIMIT      ppm    10
ALARM      ppm    30
TESTS             15
------------------------
1  WCO-3   ppm     0
2  WCO-3   ppm     0
3  WCO-3   ppm     0
4  WCO-3   ppm     0
5  WCO-3   ppm     0
6  WCO-3   ppm     0
7  WCO-3   ppm     0
8  WCO-3   ppm     0
9  WCO-3   ppm     0
10 WCO-3   ppm     0
11 WCO-3   ppm     0
12 WCO-3   ppm     0
13 WCO-3   ppm     0
14 WCO-3   ppm     0
15 WCO-3   ppm     0
------------------------
WCO-3(Max)  ppm    0
------------------------

CUSTOMER
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APPLIANCE
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REFERENCE
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Room 4

```
KANE
KANE458S
SW00182 2.51
NAME
NUMBER

SERIAL NO.    122521054

LOG                  04
DATE          27/09/22
TIME          14:19:43
------------------------
CAL DUE       01/01/17
------------------------

KANE79 CAL       VALID
------------------------
ROOM CO
ROOM 4
------------------------
GENERAL

LIMIT      ppm    10
ALARM      ppm    30
TESTS             15
------------------------
1  WCO-4   ppm     0
2  WCO-4   ppm     0
3  WCO-4   ppm     0
4  WCO-4   ppm     0
5  WCO-4   ppm     0
6  WCO-4   ppm     0
7  WCO-4   ppm     8
8  WCO-4   ppm     0
9  WCO-4   ppm     0
10 WCO-4   ppm     0
11 WCO-4   ppm     0
12 WCO-4   ppm     0
13 WCO-4   ppm     0
14 WCO-4   ppm     0
15 WCO-4   ppm     0
------------------------
WCO-4(Max)  ppm    8
------------------------

CUSTOMER
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APPLIANCE
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KANE ⌒⊃ LINK™ - ADD, MANAGE OR REMOVE WIRELESS DEVICES

Wirelessly connect optional KANE LINK™ devices to your KANE LINK™ analyzer - Once connected, they stay connected until you remove them. When powered on, they replace or add to measurements your analyzer makes.

To ADD, REMOVE and check STATUS of any KANE ⌒⊃ LINK™ device,

rotate dial to KANE LINK™ then select ⌒⊃ using ▲ or ▼ & ENTER

KANE-WPCP2 PIPE CLAMP TEMPERATURE PROBES

To add, select WPCP2 using ▲ & **ENTER**.

Enter serial number using ▲ & **ENTER**. - Each serial number must be 10 digits long.

If longer use last 10 digits - e.g: in this example enter last 10 digits: 2105094301
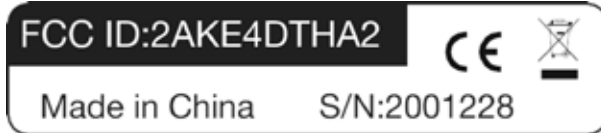

01AF2105094301

KANE-DTHA2 ANEMOMETER

To add, select **DTHA2** using ▲ & **ENTER**.

Enter serial number using ▲ & **ENTER** - Each serial number must be 10 digits long.

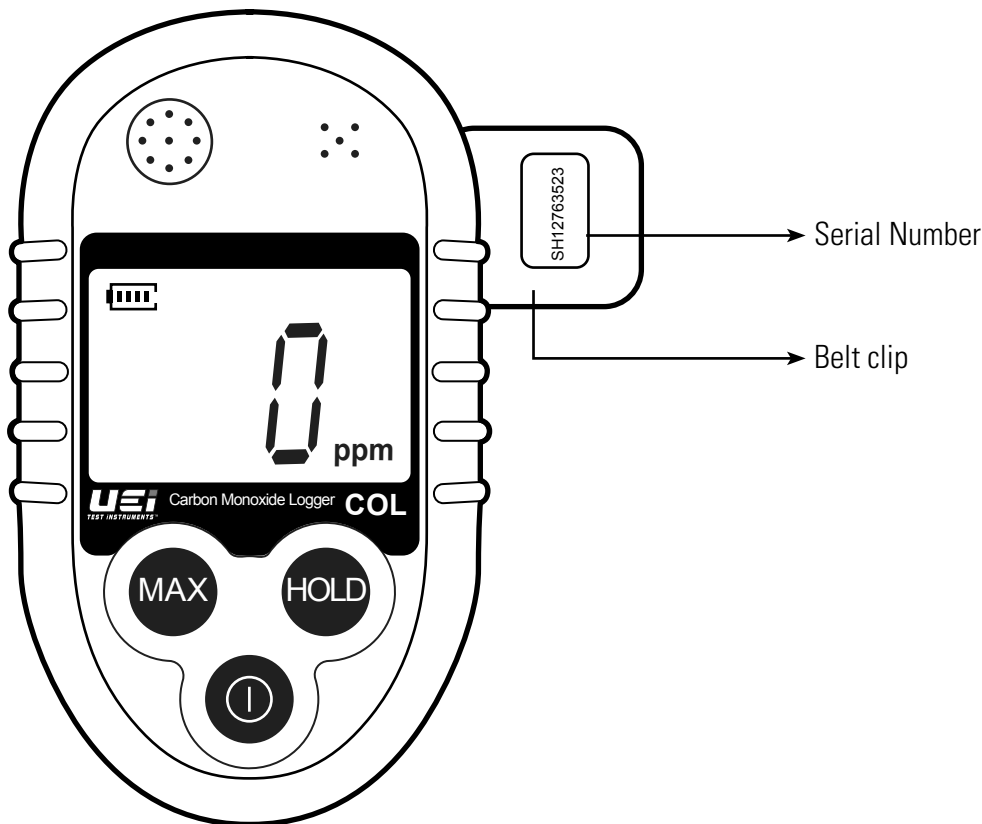If shorter enter 0's to make up to 10 - e.g: in this example enter 2001228 as 0002001228.

FCC ID:2AKE4DTHA2   C E   ☒

Made in China   S/N:2001228

Other KANE LINK™ devices can be paired - Contact KANE for more details

COL PERSONAL & ROOM CO MONITOR

NOTE: Software may indicate **COL** or **KANE79** part numbers. These part numbers are interchangeable.

To add, select **COL** using ▲ & **ENTER**

Enter serial number using ▲ & **ENTER** - Each serial number must be 10 digits long.

Serial Number

Belt clip

If shorter, enter 0's to make up to 10 - e.g: in this example enter J12345678 as 0012345678.

Other KANE LINK™ devices can be paired - Contact KANE for more details

KANE-DTHA2 ANEMOMETER

You can transfer test results to KANE LIVE™ APP or change analyzer header,

Downloaded or open KANE LIVE™

Rotate dial to KANE ⌒⌒ LINK™ then select APP using ▲ or ▼ & **ENTER**.

Tap CONNECT on KANE LIVE™ to find your analyzer - Select from device list then, if asked, tap PAIR to connect.
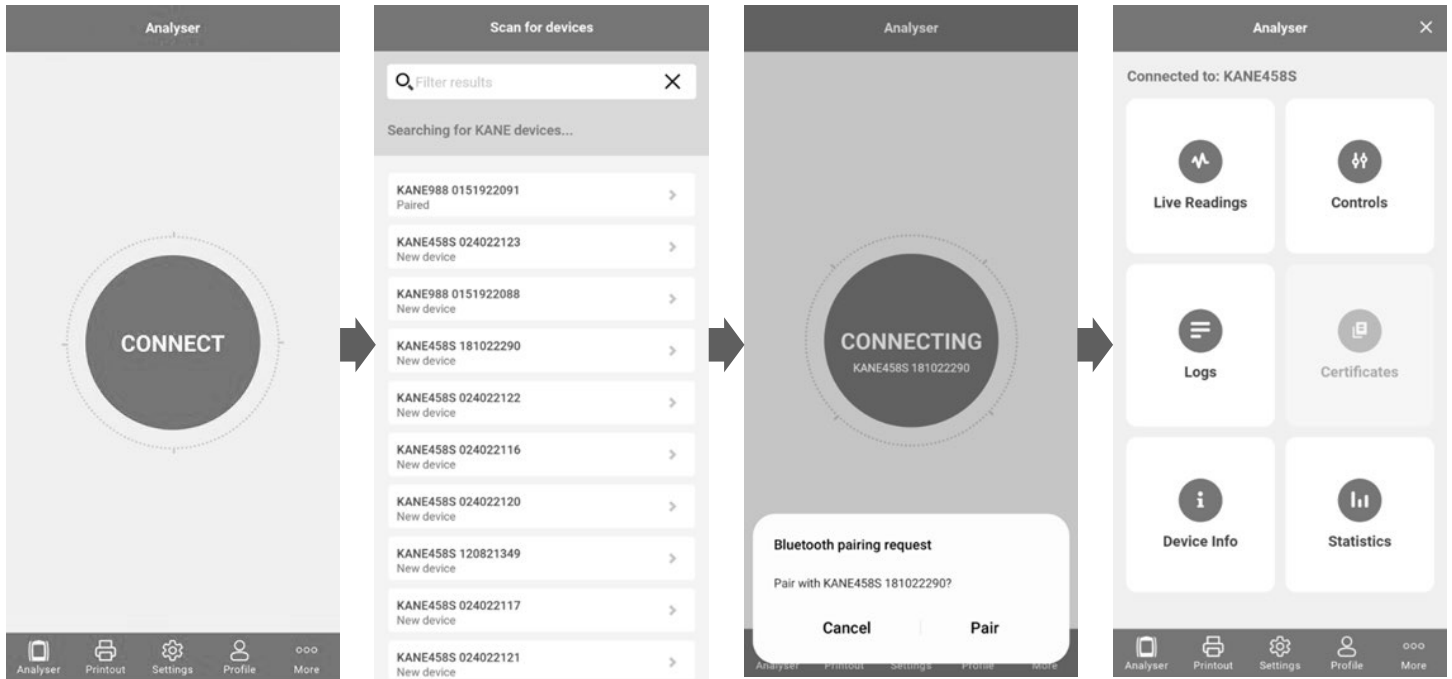
NECESSARY REGULAR MAINTENANCE

You must perform regular, simple and necessary maintenance to ensure your analyzer works correctly.

WATER TRAP, PARTICLE & WATER STOP FILTER

Some boilers produce high water vapor volume which can affect your analyzer.

Your analyzer has a water trap & particle filter with a hydrophobic filter

inside the particle filter connected to a red filter carrier.

You must drain the analyzer water trap when you see water collecting in it.
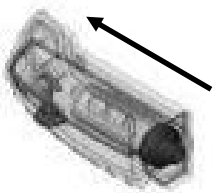
1) Remove water trap from your analyzer by pulling down
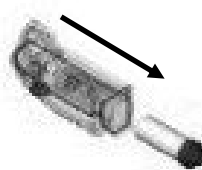
2) Remove filter cartridge
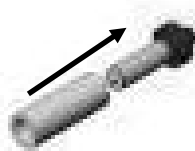
3) Remove WSF1 from particulate filter
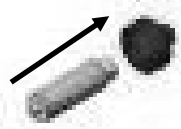
4) Remove the water trap to analyzer interface & discard contaminated WSF1 & replace with new one

Reassembly is the reverse of this procedure

KANE-DTHA2 ANEMOMETER

To drain:

1. Remove red plug

2. Empty water

3. Replace red plug

You must replace the particle & water stop filters when wet or dirty or when your analyzer displays LOW FLOW.

To replace:

1. Remove protective rubber sleeve and disconnect water trap

2. Remove red filter carrier with particle & water stop filter from water trap

3. Ensure water trap is completely dry

4. Attach new water stop & particle filter to red carrier

5. Insert red carrier in water trap and reconnect water trap to your analyzer.

Only use these replacement parts, available from authorized KANE partners or www.kane.co.uk

Water trap: SM50515

Particle filter: PF400/5 5 particle filters

Water Stop filter: WSF1/5 5 water stop filters

Red filter carrier: CM50302

GAS SAMPLE & TEMPERATURE PROBE

Always hang your probe to fully drain & dry.

You must check:

1. Your gas & temperature probe and tubing for cracks or leaks.

2. Your gas temperature probe is not bent or out of shape.

3. Your analyzer connectors are not bent or cracked.

⚠ **WARNING** Never cool your gas sample probe in water or use probe shaft as a lever.

BATTERY CHARGER & BATTERIES

You must ensure your analyzer uses correctly charged & specified batteries.

See page 7 - FIT, REPLACE & CHANGE BATTERIES

ANALYZER & PROBE LEAK TEST

You must ensure your analyzer & probe have no leaks affecting measurement accuracy.

Your analyzer will perform a system integrity test to ensure no system leaks.

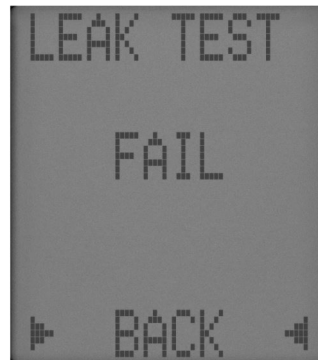To perform, rotate dial to MENU then select UTIL by pressing or ▲ or ▼ & **ENTER**

Select LEAK by pressing ▲ or ▼ & **ENTER**

Follow analyzer instructions to connect and cover gas probe tip to ensure an air tight seal.

Select NEXT by pressing **ENTER**

Your analyzer system leak test then indicates pass or fail

ANALYZER & PROBE LEAK TEST

GENERAL SAFETY

⚠ SAFETY WARNING

GASES

Your analyzer extracts combustion gases that are toxic in relativity low

concentrations - They are exhausted from the bottom and rear of the analyzer.

This must only be used in well-ventilated locations by trained and competent persons after considering all potential hazards.

Conduct "bump" tests when verifying atmospheres are hazard free from - "Bump" check analyzer works by briefly exposing it to known gas mixtures to change readings by sensors in your analyzer.

NOTE: *This is different from calibration when your analyzer is exposed to known gas mixtures them allowed to settle to a steady figure with readings adjusted to the known gas mixtures.*

PROTECTION AGAINST ELECTRIC SHOCK (IN ACCORDANCE WITH 61010-1:2010):

This analyzer is designed as Class III equipment and should only be

connected to SELV (Safety Extra Low Voltage) circuits.

The battery charger is designated as:

- Class II equipment
- Installation category II
- Pollution degree 2
- Indoor use only
- Altitude to 2000m
- Ambient temperature 0°C -40°C
- Maximum relative humidity 80% for temperatures up to 31°C decreasing linearly to 50%RH at 40°C
- Mains supply fluctuations not to exceed 10% of the nominal voltage
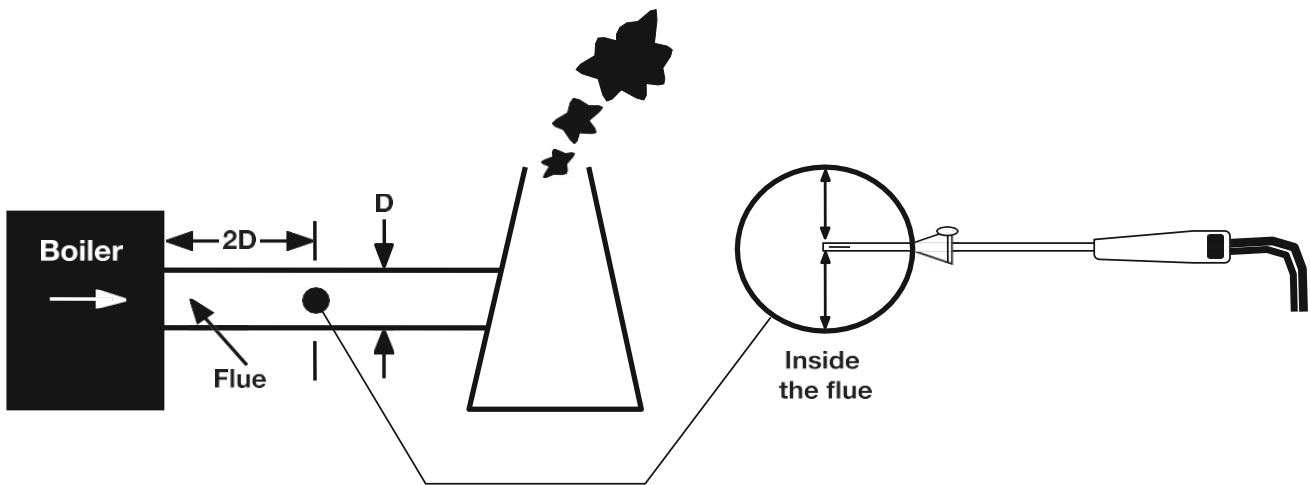
MEASURING GASES

After countdown is finished and your analyzer is correctly set up, put probe into appliance sampling point.
Probe tip should be in flue centre - use probe depth stop cone to set position.
With balanced flues, ensure probe is positioned far enough into flue so no air can "back flush" into probe.

⚠ SAFETY WARNING

Ensure flue probe handle does not get hot!

MEASURING GASES

Do not exceed analyzer operating specifications - In particular:

• Do not exceed probe maximum temperature (600°C)

• Do not exceed analyzer internal temperature operating range

• Do not put analyzer on hot surfaces

• Do not exceed water trap levels

• Do not let analyzer particle filter become dirty and blocked

Check readings are stable and within expected range.

SPECIFICATIONS

PARAMETER	RANGE	RESOLUTION	ACCURACY
Temperature & Pressure Measurement			
Flue Temperature	0 - 600°C	0.1°C	±0.5°C
Inlet temperature (Internal Sensor)	0 - 50°C	0.1°C	±1°C
Inlet temperature (External Sensor)	0 - 600°C	0.1°C	±0.5°C
Flue Gas Measurement			
Carbon Monoxide	0 - 2000ppm	1ppm	±3ppm or ±5% of reading (whichever is greater)
Carbon Monoxide H2 Compensated (If fitted)	0 - 10,000ppm	1ppm	±5ppm < 100ppm ±20ppm < 400ppm ±5% > 400ppm - 2000ppm ±10% > 2000ppm - 10,000ppm
Calculations			
Excess Air	0 -119.9%	0.1%	±0.2% of reading
Pre-programmed Fuels			
UK USA & France	Natural Gas, Propane, Butane, LPG, Light Oil, Wood Pellets		
Battery Life	>8 hours (continuous with pump on)		
Certification	The KANE-COA is independently test and certified to EN50379, Parts 1-3		
Operating Conditions			
Temperatures	0 - 45°C		
Humidity	15 to 90% RH, (non-condensing)		
Power Supply	Rechargeable batteries, USB Charging		
Physical Characteristics			
Weight	Approx. 0.625g		
Dimensions	216mm x 105mm x 45mm		

UK Directives	
The Electromagnetic Compatibility Regulations 2016 (EMC)	
The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (RoHS)	
Electrical Equipment (Safety) Regulations 2016	
EU Directives	
201430EU	Electromagnetic Compatibility (EMC)
201165EU	Restriction of the use of certain hazardous substances in electrical and electronic equipment (EMC)
2014/35	Low Voltage Directive (LVD)
Harmonised standards and technical specifications applied	
EMC	EN50270:2015
SAFETY	EN61010-1:2010
ROSH (UK & EU)	IEC62321-2:2013, IEC62321-1:2013, IEC62321-3-1:2013, IEC62321-5:2013, IEC62321-4:2013, IEC62321-7-2:2017, IEC62321-7-1:2015, IEC62321-6:2015

UEi SERVICE+

Complete Care for Your Combustion Analyzer.

BACKED BY

UEi SERVICE+

UP TO **10** YEAR WARRANTY

SAME DAY SERVICE GUARANTEED

UPS FREE SHIPPING ON ANNUAL SERVICE

When you:

Request Recertification or Service Online
Within 1 Year of Purchase or Last Service

UEi will:

10 Year Warranty: All UEi combustion analyzers have a standard 1-year warranty. Each recertification extends the warranty for 1 more year for up to ***10 years*** from the date of purchase.

*Contractors who book recertification of a C160 series analyzer at **www.ueitest.com/service** within 12 months from either the date of purchase or the date of the last recertification will receive reduced service pricing that lowers the cost of ownership and 2 additional benefits:*

Same Day Service: All qualifying analyzers received for recertification through UEi Service+ are returned on the same business day.*

Free Shipping: UEi Service+ offers free shipping both to and from our service center. When customers book their recertification, they receive a prepaid UPS Ground shipping label.

*Analyzers that include the additional NO (Nitric Oxide) sensor requires 48-hour turnaround.

PRODUCT REGISTRATION

Register Online

Registering you analyzer online is quick and easy. Just log in or setup an account, it only takes a couple of minutes. Once logged in you can register you analyzer by providing some product information and uploading a proof-of-purchase.

When it's time to request recertification, just log into your account, select the analyzer, select the service and place your order.

COLD WEATHER PRECAUTIONS

Do not leave your monitor in a cold place overnight.
Electronic devices that become cold suffer when taken into a warm place.
Condensation may form affecting performance.
Sensors are affected by condensation or water. When this happens, readings may display as "-" & sensors may be permanently damaged.
If your monitor is affected by condensation or water ingress, leave in a warm place for a few hours.
If you still experience problems please contact UEi Customer Service.

DISPOSAL

Caution: This symbol indicates that equipment and its accessories shall be subject to separate collection and correct disposal.

CLEANING

Periodically clean your meters' case using a damp cloth. DO NOT use abrasive, flammable liquids, cleaning solvents, or strong detergents as they may damage the finish, impair safety, or affect the reliability of the structural components.

STORAGE:

Remove the batteries when instrument is not in use for a prolonged period of time. Do not expose to high temperatures or humidity. After a period of storage in extreme conditions exceeding the limits mentioned in the General Specifications section, allow the instrument to return to normal operating conditions before using it.

WARRANTY

The COA is warranted to be free from defects in materials and workmanship for a period of 1 year from the date of purchase. If within the warranty period your instrument should become inoperative from such defects, the unit will be repaired or replaced at UEi's option. This warranty covers normal use and does not cover damage which occurs in shipment or failure which results from alteration, tampering, accident, misuse, abuse, neglect or improper maintenance. Batteries and consequential damage resulting from failed batteries are not covered by warranty.

Any implied warranties, including but not limited to implied warranties of merchantability and fitness for a particular purpose, are limited to the express warranty. UEi shall not be liable for loss of use of the instrument or other incidental or consequential damages, expenses, or economic loss, or for any claim or claims for such damage, expenses or economic loss.
 A purchase receipt or other proof of original purchase date will be required before warranty repairs will be rendered. Instruments out of warranty will be repaired (when repairable) for a service charge

For more information on warranty and service, contact:

www.ueitest.com Email: info@ueitest.com
1-800-547-5740

This warranty gives you specific legal rights. You may also have other rights, which vary from state to state.