



KANE-EGA4/5




Exhaust Gas Analyser



CONTENTS

Page No.

1	KANE-EGA4/5 OVERVIEW	5-6
2	ANALYSER FEATURES AND KEYPAD	7-10
2.1	KEYPAD BUTTON	8
2.2	ANALYSER LAYOUT	9
2.3	BACK OF ANALYSER & PROBE	10
3	BATTERIES	11
3.1	BATTERY TYPE	11
3.2	REPLACING BATTERIES	11
3.3	TIME AND DATE	11
3.4	CHARGING MIMH BATTERIES	11
3.5	BATTERY DISPOSAL	11
4	GENERAL SAFETY	12
5	FIRST TIME USE	13
6	DAILY USE	13
7	USER INTERFACE	14
7.1	PRINT A TEST REPORT	14
7.2	LOG A TEST REPORT	14
8	HOME MENU	15
8.1	MEASUREMENT	15
8.2	SETTINGS	16
8.3	REPORTS	17
8.4	ON SCREEN TRENDS	18

8.5	STATUS	19
8.6	SETUP	20
8.7	TOOLS	21
8.8	SERVICE	21
9	USING YOUR ANALYSER	22
10	MEASUREMENT MENU	23-24
10.1	EXHAUST GAS	23
10.2	TEMPERATURE	24
10.3	AIRFLOW, RH & TEMPERATURE	24
10.3.1	DTHA2 SCREEN	24
10.4	A/C & REFRIGERATION	25
10.5	TIMED LOGS	26
10.5.1	TEST RUNNING	27
10.6	WIRELESS MODE	27
10.7	READING SIZE	27
11	MEASURING EXHAUST GASES	28
12	REGULAR CHECKS DURING SAMPLING	29
13	NORMAL SHUTDOWN SEQUENCE	29
14	PRINTOUTS	30-31
15	WATER TRAP, PARTICLE FILTER AND WATER STOP FILTER	32-33
16	KANE  LINK - WIRELESS MEASUREMENT AND DATA TRANSFER	34-35
16.1	DTHA2 ANEMOMETER	34
16.2	WPCP TEMPERATURE PIPE CLAMP PROBE	34
16.3	WPP1 PRESSURE PROBE	35
16.4	KANE79 CO MONITOR	35

17	SPECIFICATIONS	36-37
18	EU DECLARATION	38
19	COLD WEATHER PRECAUTIONS	39
20	WELCOME TO KANE CARE	40-43
21	RECYCLING	44
22	THANK YOU	45

1 KANE-EGA4/5 OVERVIEW

Your analyser measures up to 5 engine exhaust gases
Depending on your options it measures or calculates:

- Carbon Monoxide 0-10% (CO)
- Carbon Dioxide (CO₂)
- Hydrocarbons 0-5000ppm (HC)
- Oxygen (O₂)
- Nitric Oxide (NO)
- Nitrogen Oxide (NO_x)
- Corrected Carbon Monoxide (CO_k)
- Temperature
- Differential Temperature
- Lambda
- Air Conditioning & Refrigeration systems

Your analyser has an integral protective rubber cover and easy fit accessory clip on rear above the battery compartment.

Your analyser flow detector system automatically detects a blockage in the sampling system.

Your analyser prints test results using an optional infrared KANE printer or wirelessly sends test results to the KANE LIVE App.

MEMORY

Your analyser stores tests, known as logs:

- 178 engine exhaust analysis tests
- 178 temperature tests
- 89 KANE DTHA2 airflow, temperature & humidity tests
- 2 tests of up to 1440 timed logs
- 163 air conditioning & refrigeration tests

You can personalize your test results, entering up to 2 lines of 24 characters.

KANE LINK

You can wirelessly connect optional KANE LINK devices to your analyser.

When connected, they stay connected until you use KANE LINK to remove them.









When powered on, they automatically replace or add measurements to your analyser.

See page 35 to add, manage or remove optional KANE LINK devices.

2 ANALYSER FEATURES AND KEYPAD



KEYPAD BUTTONS

ICON	DESCRIPTION
 PLAY / PAUSE	Pump On / Off
 PRINT F1	Short press to print a report - Analyser offers destination choice when wireless & irda fitted
 STORES / F2	Short press to Store / F2
 HOME	Return to home screen
 UP	Short press to scroll up
 DOWN	Short press to scroll down
 BACK / CANCEL	BACK / CANCEL
 OK / ENTER	OK / ENTER

2.2

ANALYSER LAYOUT

Power On / Off

Large colour display

Battery charger connection

Status bar

Function keys x 3
- see below

Particle filter & Water stop filter

Scroll up

water trap

Home

Back / Delete

Scroll down

OK / Enter

Analyser connections
- see section 2

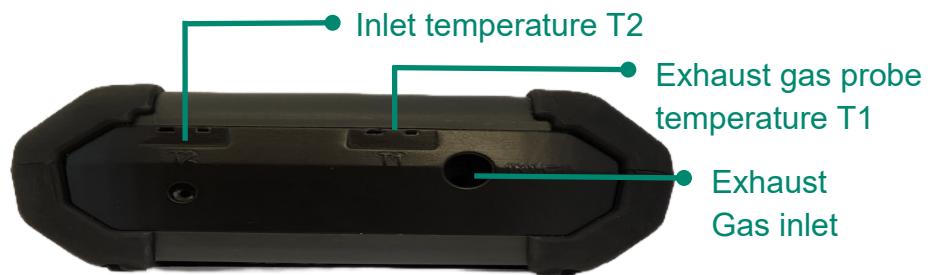
Flue gas inlet



Print / F1

Pump On / Off

Store / F2



Inlet temperature T2

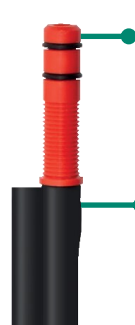
Exhaust gas probe temperature T1

Exhaust Gas inlet

Exhaust gas probe temperature plug - plug Into T1
Narrow (+ve) pin must be on right side



Red flue gas probe connector - plug into Exhaust gas Inlet



Exhaust gas probe hose

2.3 BACK OF ANALYSER & PROBE



3 BATTERIES

3.1 BATTERY TYPE

Your analyser uses rechargeable Nickel Metal Hydride (NiMH) batteries. Using other battery types may void your analyser warranty.

WARNING

Although you can use Alkaline batteries do not charge your analyser with Alkaline batteries fitted.

Do not mix NiMH cells with different capacities or from different manufacturers - All batteries must be identical.

3.2 REPLACING BATTERIES

Turn over your analyser & remove battery compartment cover. Fit 6 x NiMH “AA” rechargeable batteries with correct battery polarity. Replace battery compartment cover.

3.3 TIME AND DATE

After changing batteries reset your analyser time & date.

3.4 CHARGING NiMH BATTERIES

Your first charge should be for 8 hours - Thereafter NiMH batteries can be topped up any time, even for short periods.

3.5 BATTERY DISPOSAL

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

**SAFETY WARNING**

Your analyser extracts gases that may be toxic in relatively low concentrations.

These gases are exhausted from the back and bottom of the analyser.

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

Portable gas detectors should conduct “bump” tests before relying on units to verify atmospheres are free from hazards.

A “bump” test checks an analyser works within acceptable limits by briefly exposing it to known gas mixtures to change output of sensors present.

NOTE: This is different from a calibration where your analyser is exposed to known gas mixtures but allowed to settle to a steady figure with readings adjusted to the test gas concentration.

Protection Against Electric Shock - (In accordance with EN 61010-1:2010).

This analyser 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

5 FIRST TIME USE

Charge your analyser batteries for 8 hours - an overnight charge should be sufficient for an average 8-hour day.

Take time to read this manual fully and be aware your analyser configuration may not support all features explained in this manual.

Use  or  &  to select your choices - Press HOME to exit without change.

Set up your analyser to your requirements - Press HOME then select from setting, reports, on screen trend, set up & tools.

6 DAILY USE

After powering on your analyser, choose tasks to perform using MENU.




Most tests can be made with little user activity.

Your analyser status bar on the bottom of the displays shows current time, date and battery status.

Check time and date are correct as they can only be changed if you have no stored logs in analyser memory to protect stored data integrity.

Always check you analyser before use and power on in fresh air - See section 9 on page 22.

Press HOME menu to start using your analyser - See section 8 on page 15.

Use  or  &  to select what happens next - Press HOME to exit what change.

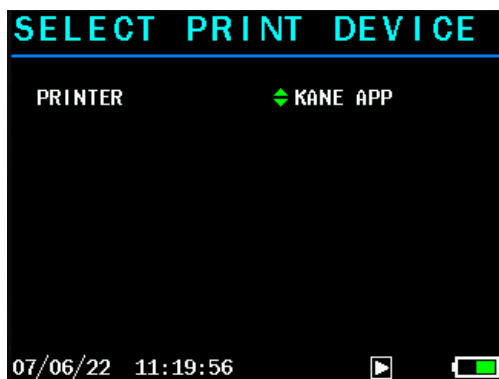
7 USER INTERFACE


Navigate via the 5 button control panel - press HOME to return to HOME MENU:



7.1 PRINT A TEST REPORT

Press PRINT key  to select print destination.





Press ENTER key  - display changes to show print progress.

7.2 LOG A TEST REPORT




Press STORE key  until display shows LOG STORED.

To print logged data:
Select LOG ON in REPORTS menu

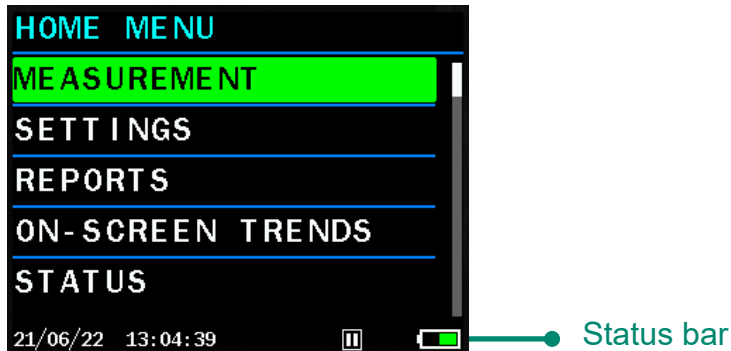
Press PRINT key  or select desired test from MEASUREMENT MENU and use View Logs

Select LOG NO and press PRINT key 

8 HOME MENU

Press HOME to display MENU, use   &  to enter each item.

Press HOME to exit without change

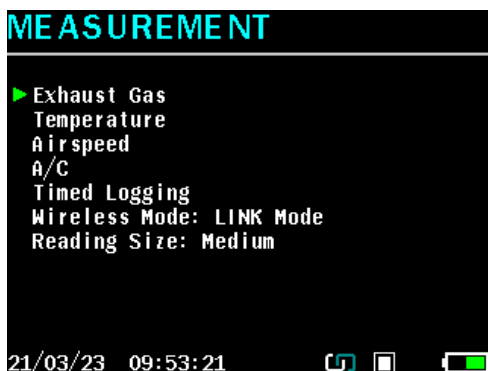


MENU ITEM	COMMENTS
MEASUREMENT	Select task to perform
SETTINGS	Change date, time, measurement parameters, alarms etc
REPORTS	Configure logging parameters and view stored data
ON-SCREEN TRENDS	Configure and display trend information
STATUS	Current instrument status, software version etc
SETUP	Change analyser settings and add, manage or delete KANE LINK device
TOOLS	Manual air and pressure zero, mid-stream finder tool
SERVICE	Reserved

8.1 MEASUREMENT

Start measurements and tests

Press HOME to exit without change



See page 28 for details

8.2 SETTINGS

Change default setting - Use   &  to edit each setting.

Press **HOME** to exit without change



MENU ITEM	OPTIONS / COMMENTS
DATE / TIME	Set date and time - NOTE: Can only change if all logs in memory are cleared
TEMPERATURE	Select desired option via UP / DOWN and OK to confirm
SIMULATED NO2	Set assumed % of NO2 present in sample for NOx Calculation - 5% default
ALARMS	Set Toxic Gas Alarm YES / NO Set Battery Low Alarm YES / NO Set Watertrap Check Warning YES / NO Set excess CO Warning YES / NO

8.3 REPORTS




Create, edit and remove reports - Use   &  to edit each setting.

Press HOME to exit without change



MENU ITEM	OPTIONS / COMMENTS
VIEW COMB. REPORTS	View reports
VIEW PRS & TEMP REPORTS	View reports
VIEW AIRFLOW REPORTS	View reports
VIEW DTHA2 REPORTS	View reports
DELETE REPORTS	Select by report type or all

8.4 ON-SCREEN TRENDS

Create and display custom measurement trends - Use   &  to edit each setting.

Press HOME to exit without changing



MENU ITEM	OPTIONS / COMMENTS
SETUP	Set: SAMPLING INTERVAL TREND A Parameter TREND B Parameter TREND C Parameter TREND D Parameter
START TREND A	Start
START TREND B	Start
START TREND C	Start
START TREND D	Start
START DUAL TREND AB	Start
START DUAL TREND CD	Start
START QUAD TREND	Start




8.5 STATUS

View current configuration and setup - Use   to view each page

Press HOME to exit change




ANALYSER 1/6

Model	KANE-EGA5
Software	SW00244 V2.1.4+
	Feb 7 2023 08:17
Serial N°	330723001
Asset N°	None
CAL OVERDUE	8379d
BATTERY	52%
WIRELESS	KANE LINK

07/02/23 09:26:23   




OPERATOR 2/6

Operator	Your Name
Company	Your Company Name
Addr Line 1	Address line 1
Addr Line 2	Address line 2
City/Town	City/Town
Post Code	Postcode
Telephone	Company Telephone
Mobile	Company Mobile
Web/Email	Company Website

07/02/23 09:26:57   




Sensors Fitted 3/6

O2	25 %
CO	-N/F-
H2	-N/F-
NO	1000 ppm
NO2	-N/F-
SO2	-N/F-
H2S	-N/F-
IRCO2	20 %
IRCO	20 %
IRHC	2000 ppm

07/02/23 09:27:17   




Sensors Fitted 4/6

T1	1200 °C
T2	1200 °C
PRS	-N/F-

07/02/23 09:27:37   

Combustion 5/6

Auto Zero	YES
Main Purge Duration	1m 30s
Main Purge Interval	3h
Reference O2	0.0%
Reference O2 (NO)	0.0%
Simulated NO2	5%
Efficiency	Gross
Fuel Type	Petrol
CO Alarm Level	OFF




07/02/23 09:28:06   

REPORTS 6/6

Timed Logging	0
Timed Logging	0
Airflow	0
Combustion	0
DTHA2	0
Pressure & Temp	0
REFRIGERANT	0

07/02/23 09:28:29   

8.6 SETUP

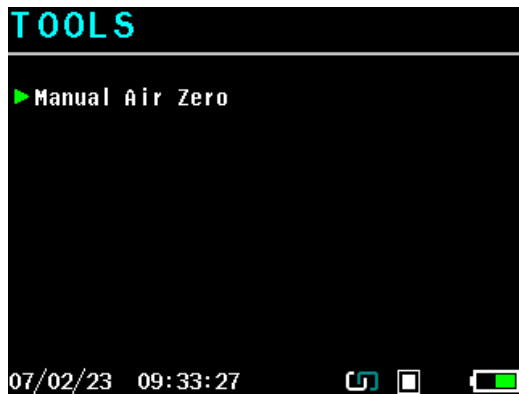
Make further changes - Use   &  to edit each setting.
Press HOME to exit without change




MENU ITEM	OPTIONS / COMMENTS
LANGUAGE	Select analyser operating language
OPERATING REGION	Select fuel table country or region
ASSET NO.	Enter equipment asset number
OPERATION DETAIL	Enter operator / owner information
PRINTER	Select IR printer type
MANAGE LINK DEVICES	Add or remove KANE LINK devices
ALARM LEVELS	Set alarm trigger levels for each gas sensor - Note alarms set in increments of 25ppm
MAIN PURGE	Set: MAIN PURGE DURATION Time in seconds MAIN PURGE INTERVAL Time in minutes AUTO ZERO YES/NO
USER DEFINED FUELS	Add custom fuel types
CHANGE SECURITY PIN	Set to stop changes without PIN code entry

8.7 TOOLS

For more accurate measurements



MENU ITEMS	OPTIONS / COMMENTS
MANUAL AIR ZERO	Manually trigger Air Zero purge. 


8.8 SERVICE

Restricted area for authorized personnel only.

USING YOUR ANALYSER

CHECK BEFORE SWITCH-ON:

1. Particle and water stop filters are dry and clean
2. Water trap and probe line are empty of water
3. Water trap is correctly fitted and instrument upright
4. All hoses connections, etc, are properly made
5. Analyser & probe will sample fresh outdoor air

Power ON by pressing  to start automatic calibration count down.

AUTOMATIC CALIBRATION

During automatic calibration analyser samples fresh air to zero toxic sensors and set oxygen sensor to 20.95%.

After power on your analyser displays identity, software version and serial number.

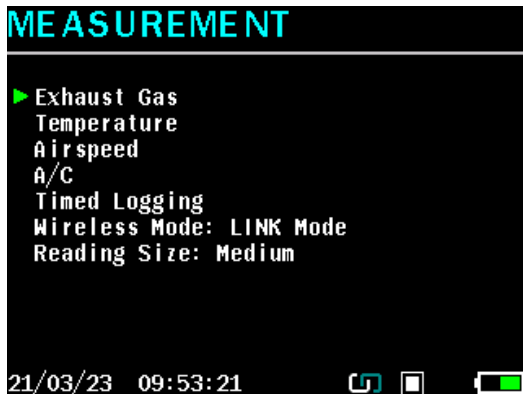
“ANALYSER PURGING 90 secs” countdown appears on display.

Calibration time counts down in seconds to zero and can be changed to 90, 120, 180 or 300 seconds.

NOTE:- 180 seconds is recommended to allow sensors to fully stabilise
- anything less may result in toxic and oxygen sensor drift.

10 MEASUREMENT MENU

Start measurements and tests - Use ▲ ▼ & OK to edit each test



NOTE:- Ensure analyser displays correct date & time before making measurement.

10.1 EXHAUST GAS

Begins measurement process.

Use ▲ ▼ & OK to manage options and start tests



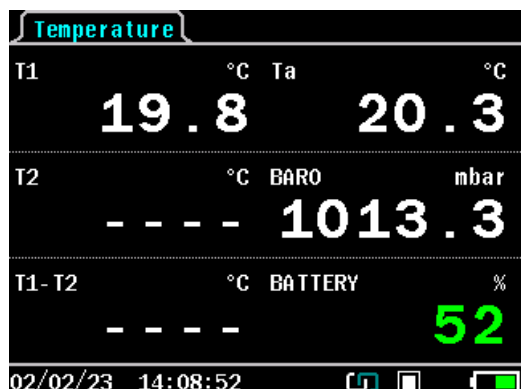
- Select vehicle fuel type
- Optional enter vehicle reg
- Select lambda or AFR
- Begin measurement

Typical exhaust gas analysis screen

Petrol Exhaust Gas			
O2	%	LAMBDA	02++
20.96			
CO	%	COK	02++
0.00			
CO2	%	HC	ppm
0.00			0
NO	ppm	NOX	ppm
0			0

10.2 TEMPERATURE

Start pressure and temperature measurements



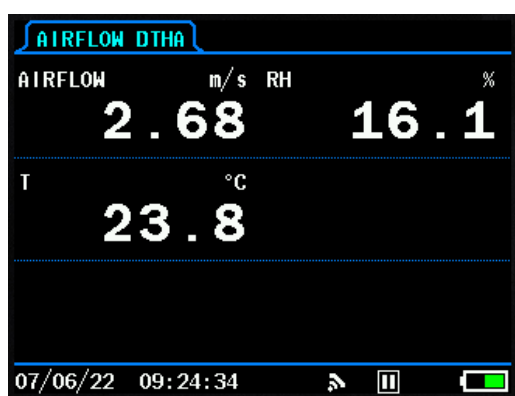
10.3 AIRFLOW, RH & TEMPERATURE

Your analyser tests airflow, RH & temperature with an optional KANE-DTHA2 wireless anemometer.

Requires KANE-DTHA2 connected via KANE LINK - See page 35

10.3.1 DTHA2 SCREEN

Typical KANE-DTHA2 screen when connected





A/C & REFRIGERATION

Your analyser tests A/C & Refrigeration systems with optional KANE LINK devices.

When using for example:



- 2 WPCP temperature pipe clamp probes
- 2 WPP1 pressure probes
- 1 DTHA2 anemometer

Your analyser simultaneously displays high side / low side pressure & temperature and in vehicle temperature, humidity & airflow on one screen. See page 20 & page 30 to add devices

Manage Link devices - Use   &  to edit each device
Press HOME to exit without change



The screenshot shows a black screen with cyan text. At the top, it says "REFRIGERANT R11". Below this, there are several rows of data: "LP bar" and "HP bar" (both showing dashes), "T1 °C" (showing "19.8") and "T2 °C" (showing dashes), "Airflow m/s" (showing dashes) and "RH %" (showing dashes), and "T °C" (showing dashes) and "BATTERY %" (showing "52"). The status bar at the bottom shows the date "07/02/23", time "09:37:35", and battery level. Green lines with dots connect the text labels on the left and right to the corresponding data points on the screen.

Current refrigerant use   to change

Low side pressure - WPP1

Low side Temperature - WPCP2

Airflow - DTHA2

Temperature - DTHA2

High side pressure - WPP1

High side temperature - WPCP2

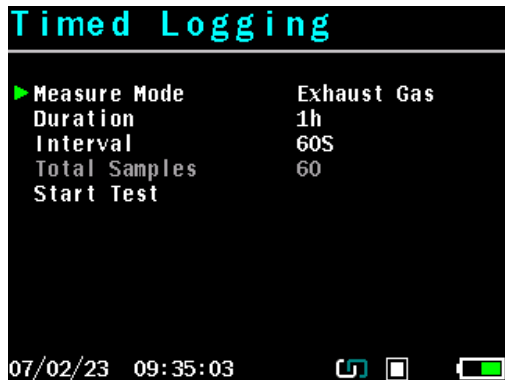
Humidity - DTHA2

10.5 TIMED LOGS

Configure and perform timed logs

Use   &  to select

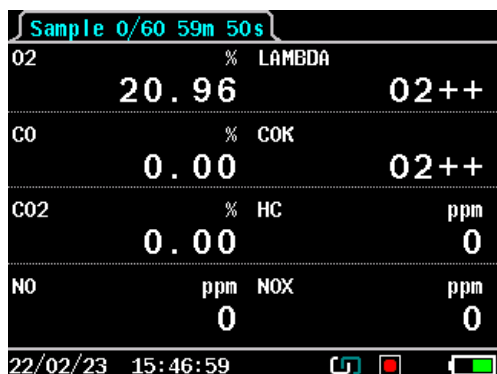
Press HOME to exit without change



MENU ITEMS	OPTIONS / COMMENTS
MEASURE MODE	Select required measurement parameters: EXHAUST GAS AIRFLOW
DURATION	Choose test duration from 1 to 24 hours
INTERVAL	Choose sampling interval from 3 to 60 seconds
TOTAL SAMPLES	Indicates number of samples collected based on DURATION and INTERVAL settings
START TEST	Begin test

10.5.1 TEST RUNNING

Typical test running screen



The screenshot shows a test running screen with the following data:

Sample 0/60 59m 50s			
O2	% LAMBDA	20.96	02++
CO	% COK	0.00	02++
CO2	% HC	0.00	ppm 0
NO	ppm NOX	0	ppm 0

At the bottom of the screen, there is a status bar showing the date and time: 22/02/23 15:46:59, along with icons for connectivity and battery level.

10.6 WIRELESS MODE

Select KANE  LINK or KANE APP modes

10.7 READING SIZE

Select text size for task screens

MEASURING EXHAUST GASES

After countdown is finished and your analyser is ready to use, put your exhaust probe into the engine exhaust.

For normal emission testing, ensure engine is at normal operating temperature.

Engine conditions must be constant to give stable measurements.

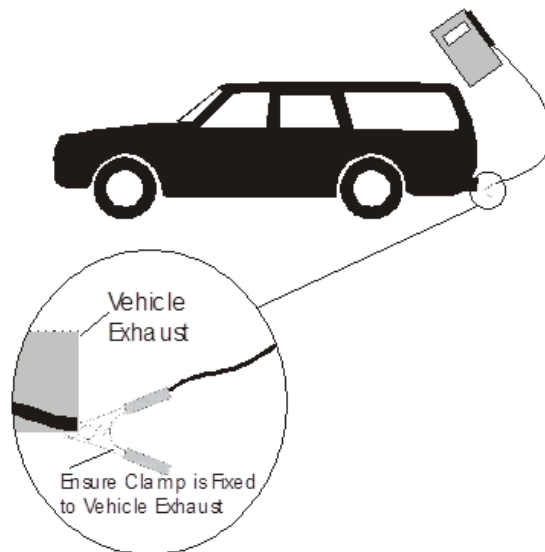
Ensure probe is fully inserted in exhaust pipe to avoid exhaust dilution with back-flushing ambient air.

Position hose assembly away from hot surfaces.



SAFETY WARNING

Use suitable protection when disconnecting probe which may be hot!



Do not exceed analyser operating specifications - In particular:

- Do not exceed analyser internal temperature operating range
- Do not put analyser on hot surfaces
- Do not exceed analyser water trap max levels
- Do not let analyser particle filter become dirty and blocked

Check readings are stable and within expected range.

12

REGULAR CHECKS DURING SAMPLING

Do not exceed analyser operating specifications:

- Do not exceed probe maximum temperature
- Do not exceed analyser internal temperature
- Do not place analyser on a hot surface
- Keep analyser water trap vertical - water vapour condenses in probe line and can quickly fill analyser water trap
- Keep analyser in-line particle filter clean and dry

13

NORMAL SHUTDOWN SEQUENCE

DO THIS EVERY TIME YOU USE THE ANALYSER



Remove probe from exhaust - **TAKE CARE! HOT PROBE**
- and allow to cool naturally.

Allow analyser to purge in fresh air for at least three minutes or until all toxic sensor readings are below 10ppm.

Do not immerse probe in water as this will damage pump and sensors.

NOTE: It is good practice to hang probe hose vertically after sampling so condensate drains away.

Air Conditioning Test

```

Your Name
Your Company Name
Address line 1
Address line 2
City/Town
Postcode
Company Telephone
Company Mobile
Company Website

KANE-EGA5
Serial N°      151922092
S/W          SW00244, V2.1.4+

AC

LOG                      1
Date                   07/02/23
Time                   12:00:50

REFRIGERANT            R11
LP          bar        0.0
HP          bar        0.0
WT1         °C         59.6
WT2         °C         16.0
Airflow     m/s        ----
RH          %          ----
T           °C         ----
-----
Ta          °C         22.1
BARO       mbar       1029.0

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

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

Exhaust Gas Test

```

Your Name
Your Company Name
Address line 1
Address line 2
City/Town
Postcode
Company Telephone
Company Mobile
Company Website

KANE-EGA5
Serial N°      151922092
S/W          SW00244, V2.1.4+

Exhaust Gas

Date                   07/02/23
Time                   11:38:42

FUEL                   Petrol
O2          %          0.00
AFR          %          12.84
LAMBDA      %          0.873
CO2         %          13.6
HC          ppm       1088
NO          ppm        55
NOX         ppm        58
COK         %          3.09
-----
Ta          °C         21.6
BARO       mbar       1029.3

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

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

Humidity - DTHA2

Your Name	
Your Company Name	
Address line 1	
Address line 2	
City/Town	
Postcode	
Company Telephone	
Company Mobile	
Company Website	
KANE-EGA5	
Serial N°	151922092
S/W	SW00244, V2.1.4+
HUMIDITY	
LOG	2
Date	08/02/23
Time	10:32:07
Airflow	m/s 1.11
RH	% 0.1
T	°C 20.4

Ta	°C 21.2
BARO	mbar 1025.7
BATTERY	% 100
CUSTOMER	
.....	
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.	.
.....	
REFERENCE	
.....	
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.....	

Temperature

Your Name	
Your Company Name	
Address line 1	
Address line 2	
City/Town	
Postcode	
Company Telephone	
Company Mobile	
Company Website	
KANE-EGA5	
Serial N°	151922092
S/W	SW00244, V2.1.4+
Temperature	
Date	08/02/23
Time	10:31:02
T1	°C 94.8
T2	°C 74.5
T1-T2	°C 20.3

Ta	°C 21.1
BARO	mbar 1025.7
BATTERY	% 100
CUSTOMER	
.....	
.	.
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REFERENCE	
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.....	

WATER TRAP, PARTICLE FILTER AND WATER STOP FILTER

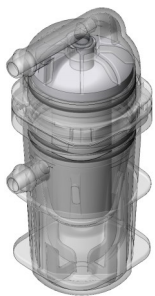
Your analyser has a water trap & particle filter to stop gas water vapour & dust entering your analyser.

However, some boilers & engines produce much higher volumes of water vapour which can affect your analyser.

Your analyser also has a hydrophobic water stop filter located inside the water trap in a filter carrier located above the particle filter.

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

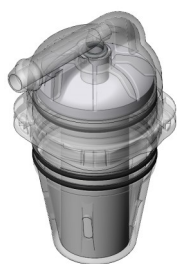
To replace:



1) Carefully remove water trap from housing



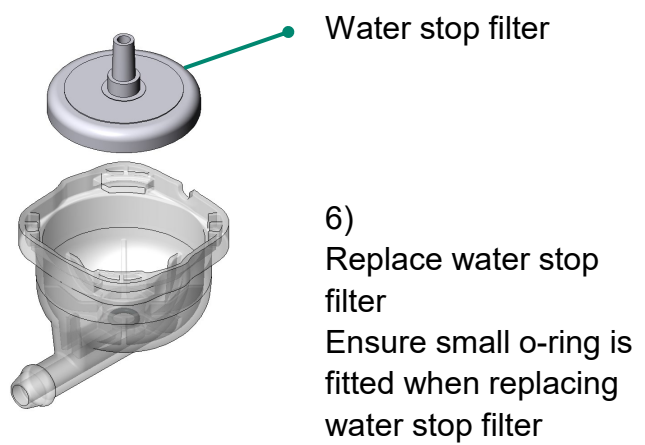
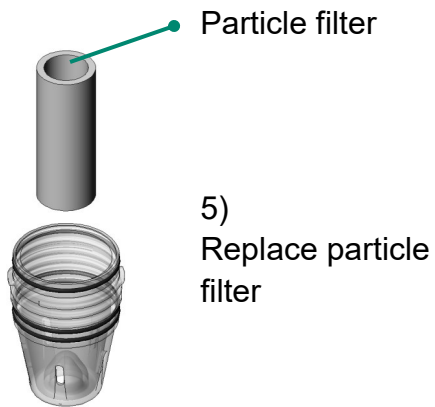
2) Pull reservoir vertically from filter holder



3) Rotate top part of filter housing 30° anti-clockwise



4) Pull particulate filter receiver vertically from water stop filter receiver



Replacement part numbers:

Water Stop filter: WSF2

Particle filter: PF2

Water trap: SM50675

16

KANE LINK WIRELESS MEASUREMENT AND DATA TRANSFER

You can connect optional wireless KANE LINK devices to your analyser.

Navigate to MANAGE LINK DEVICES in SETUP MENU - see page 20.

To ADD, REMOVE and check STATUS of optional KANE LINK device select LINK using ▲▼ & ← buttons.

To wirelessly transfer data to a connected smart device running our KANE LIVE App, select App using ←

16.1

DTHA2 ANEMOMETER

To add your DTHA2 anemometer select DTHA2 using ▲▼ & ←

Enter serial number using ▲▼ & ← buttons - Each serial number must be 10 digits long.

If shorter enter 0's to make up to 10, eg enter serial number below as 0002001228.



16.2

WPCP TEMPERATURE PIPE CLAMP PROBE

To add a temperature probe clamp probe, select WPCP then enter serial number using ▲ & ←

Enter serial number using ▲▼ & ← - Each serial number must be 10 digits long.

If longer use last 10 digits, e.g: enter serial number below using last 10 digits: 2105094301



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

16.3 WPP1 Pressure Probe

To add a pressure probe select WPP1 using ▲▼ & ← buttons.

Enter serial number using ▲▼ & ← buttons - Each serial number must be 10 digits long.

If longer use last 10 digits, e.g, enter serial number below using last 10 digits:
2208000602



16.4 KANE79 CO MONITOR

To add a KANE79 select KANE79 using ▲▼ & ← buttons.

Enter serial number using ▲▼ & ← buttons - Each serial number must be 10 digits long.



Use numeric part of serial number to pair your KANE LINK analyser.
KANE LINK requires a 10-digit serial number - If shorter, use 0's to make up to 10 infant of serial number.

For example: Enter serial number J12345678 above as 0012345678.

SPECIFICATIONS

PARAMETER	RESOLUTION	ACCURACY	RANGE
Temperature Measurement			
Temperature	0.1°C	±0.1°C ±0.3% reading	-50 - 1200°C With suitable probe
Exhaust Gas Measurement *1			
Oxygen	0.1%	±0.3% Volume	0 - 25%
Carbon Monoxide High Range NDIR	0.1%	±5% or reading from 0.1% to 10%	0 - 10%
Nitric Oxide (optional)	1ppm	±5ppm<100ppm ±5%>100ppm	0 - 5000ppm
Nitrogen Dioxide (optional)	1ppm	±5ppm<100ppm ±10ppm<500ppm	0 - 1000ppm
Carbon Dioxide NDIR	0.1%	±0.3% reading	0 - 20%
Hydrocarbon NDIR	1ppm	+/- 5% of reading or +/- 12ppm volume	0 - 5000ppm Over-range: 10,000ppm
Calculations			
Efficiency High (C)	0.1%	±1% of reading	0 - 119.9%
Excess Air	0.1%	±0.2% of reading	0 - 119.9%
Lambda AFR (Petrol) (LPG)		0.001 0.01	0.8-1.2 11.76-17.64 12.48-18.72
Carbon Monoxide Corrected COK		0.01%	0-15%
Pre-programmed Fuels			
Petrol, LPG, CNG, Diesel			
Pre-programmed Refrignents			
R11, R12, R22, R123, R134a, R290, R401a, R401b, R402a, R402b, R404a, R406a, R407a, R407c, R408a, R409a, R410a, R414b, R416a, R417a, R420a, R421a, R421b, R422a, R422b, R422d, R424a, R427a, R434a, R437a, R500, R502, R503, R507a, R508b, R600, R718, R744, R1234YF, R1234ZE, R32, R434a, R437a			

SPECIFICATIONS CONTINUED

Battery Life	>6 hours from full charge
Operating Conditions	
Temperatures	0 - 45°C
Humidity	15 to 90% RH, (non-condensing)
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 VDC off load
Physical Characteristics	
Weight	Approx. 1.2kg
Dimensions	240mm x 165mm x 65mm

EU DECLARATON OF CONFORMITY

This declaration of conformity is issued under the sole responsibility of the manufacturer:-

Kane International Ltd.

Kane House, 11 Bessemer Road, Welwyn Garden City, Hertfordshire, AL10 1GF, UK.

Tel: + 1707 375550

Web: www.kane.co.uk

The KANE-EGA4/5 is in conformity with the relevant Union harmonization legislation below:

UK Directive	
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 Directive	Title
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)

The following harmonised standards and technical specifications have been 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

Signed for on behalf of:-
01. July 2022

Kane International Ltd.



Paul Morrison
Engineering Manager

COLD WEATHER PRECAUTIONS

Do not leave your analyser in a cold place overnight.

Cold electronic devices suffer when taken into a warm place.
Condensation may form affecting analyser performance.

Sensors are affected by condensation or water - When this happens, readings may display as “-” & sensors may be permanently damaged.

If your analyser is affected by condensation or water ingress, leave running in a warm place with pump ‘ON’ sampling fresh air for up to 3 hours - Connect charger to avoid draining batteries.

If you still experience problems please contact KANE Customer Service.

Northern Customer Service
Kane International Ltd
Gibfield Park Avenue
Atherton,
Manchester
M46 0SY, UK
e: nservice@kane.co.uk
t: 0800 059 0800

Southern & International Customer Service
Kane International Ltd
Kane House, 11 Bessemer Road
Welwyn Garden City
Hertfordshire
AL7 1GF, UK
e: service@kane.co.uk
t: 0800 059 0800

Outside UK Call +44 1707 375550



Welcome to KANE CARE

- 20 **KANE CARE is our award winning promise to never let you down or your money back**

KANE CARE applies to any KANE Analyser Service & Recertification booked online via www.kane.co.uk & www.kanetest.ie - some exclusions apply

For KANE CARE International Service & Recertification
email: sales@kane.co.uk



- ★ Please **register** your analyser on our website to download your instruction manual
- ★ **PLEASE READ ALL SAFETY WARNINGS IN THE MANUAL**
- ★ Use our website to manage your Analyser, buy spares & other KANE products
- ★ Find FAQs on our website or YouTube Channel
- ★ Any questions? Call our Customer Service Team 7am - 5pm any normal weekday 0800 059 0800

More info at: www.kane.co.uk/service-and-re-calibration

www.kane.co.uk www.kanetest.ie
www.kane.eu www.kane-care.com

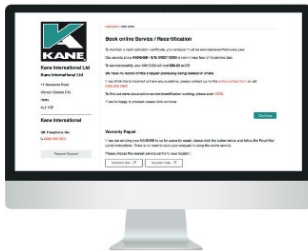
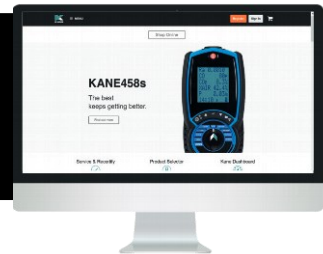




UK & Ireland
Same Day Despatch
KANE CARE Service & Recertification



Register your analyser on
www.kane.co.uk or
www.kanetest.ie



Book & pay to Service & Recertify
via your dashboard

Select FREEPOST for tracked
carriage - UK & Ireland mainland only



Your analyser will be despatched
the same day we receive it...
OR YOUR MONEY BACK*

*Excludes KANE-EGA, AUTO600, '9 series' analyser & UKAS certificates - Ireland 2 day turnaround

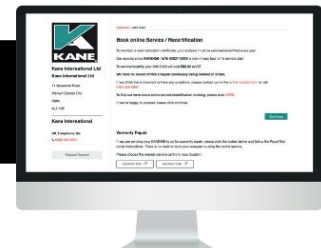


International
All Inclusive Price
KANE CARE Service & Recertification



email: sales@kane.co.uk with
analyser name & serial number

Pay our all inclusive
KANE CARE quote



Send your analyser & accessories

We will return free of charge* after
KANE CARE Service & Recertification
with 1 year warranty if under 10 years old



*Excludes local tax & duty



KANE CARE UK & Ireland Service & Recertification

KANE CARE is our promise to never let you down or your money back

- ★ 10 Year warranty with annual Service & Recertification
- ★ Same Day Service & Recertification guaranteed
- ★ Free next day tracked delivery to KANE
- ★ Free pre 9am next day return & Saturday am
- ★ Theft protection - 50% off when replacing your stolen KANE analyser

KANE CARE applies to any KANE FGA Service & Recertification booked online via www.kane.co.uk & www.kanetest.ie - some exclusions apply

More info at: www.kane.co.uk/service-and-re-certification

KANE CARE International Service & Recertification

KANE CARE is our promise to never let you down or your money back

- ★ 10 Year warranty with annual Service & Recertification
- ★ 20 Year all inclusive pricing
- ★ Includes accessory repair or replacement as required including probe, charger, carry bag & printer
- ★ Free tracked return
- ★ Full test certification & repair report

KANE CARE International applies to any KANE Analyser Service & Recertification booked & quote confirmed via sales@kane.co.uk - some exclusions apply

More info at: www.kane.co.uk/service-and-re-certification

Customer Service

0800 059 0800

+44 1707 375550

Email: sales@kane.co.uk

www.kane.co.uk www.kanetest.ie
www.kane.eu www.kane-care.com

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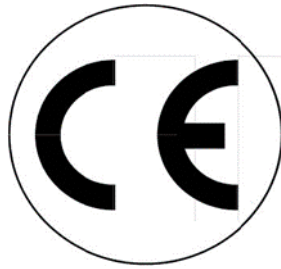


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RECYCLING

THIS PRODUCT CONFIRMS WITH THE FOLLOWING



RoHS



PLEASE RECYCLE

PACKAGING MADE IN THE UK

THANK YOU

Thank you for buying this analyser.

Before use, please register on our website

www.kane.co.uk



Scan the QR code to go directly to
Register your product online.

Kane International Ltd
Kane House, 11 Bessemer Road
Welwyn Garden City
Hertfordshire