

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
	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
	PRINT A TEST REPORT	14
	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 TRANFER	34-35
	16.1 DTHA2 ANEMOMETER	34
	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)
- Nictric Oxide (NO)
- Nitrogen Oxide (NOx)
- Corrected Carbon Monoxide (COk)
- Temperature
- Differential Temperature
- Lamba
- 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 automatedly 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 COLINK

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.

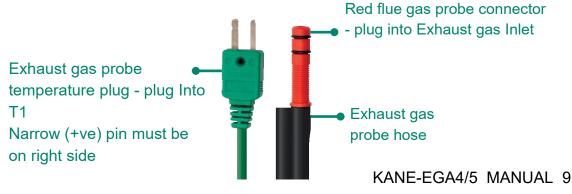
2 ANALYSER FEATURES AND KEYPAD



21 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 UP	Short press to scroll up
DOWN	Short press to scroll down
BACK / CANCEL	BACK / CANCEL
OK / ENTER	OK / ENTER





BACK OF ANALYSER & PROBE



BATTERIES

31 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.

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.

33 TIME AND DATE

After changing batteries reset your analyser time & date.

34 CHARGING NIMH BATTERIES

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

BATTERY DISPOSAL

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

4 GENERAL SAFETY

SAFETY WARNING

Your analyser extracts gases that may be toxic in relativity 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.

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.

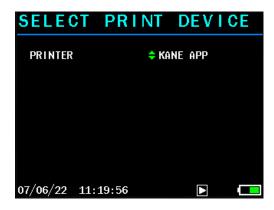
USER INTERFACE

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



PRINT A TEST REPORT

Press PRINT key **to select print destination**.



Press ENTER key 2 - display changes to show print progress.

12 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



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

Press HOME to exit without change



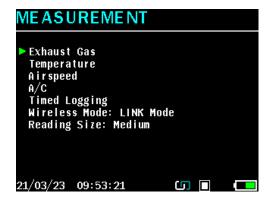
MENU ITEM	COMMENTS	
MEASUREMENT	Select task to perform	
SETTINGS	Change date, time, measurement parameters, alarms etc	
REPORTS	Configure logging parameters and view stored data	
ON-SCREEN TRENDS	Configure and display trend information	
STATUS	Current instrument status, software vertion etc	
SETUP	Change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



MEASUREMENT

Start measurements and tests

Press HOME to exit without change

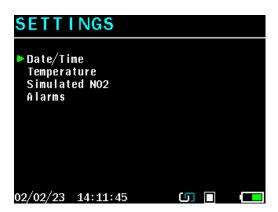


See page 28 for details

82 SETTINGS

Change default setting - Use △ 🗖 & 🔁 to edit each setting.

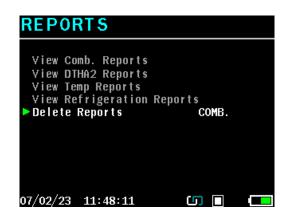
Press **HOME** to exit without change



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	



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	

ON-SCREEN TRENDS

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

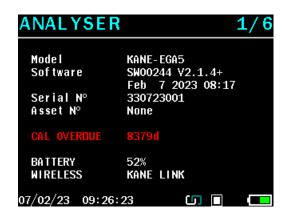
Press HOME to exit without changing

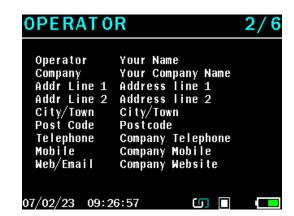


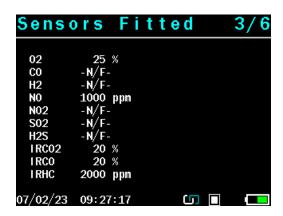
MENU ITEM	OPTIONS / COMMENTS	
SETUP	Set: SAMPLING INTERVAL TREND A Parameter TREND B Parameter TREND C Parameter TREND D Parameter	
START TREND A	Start	
STATY TREND B	Start	
START TREND C	Start	
START TREND D	Start	
START DUAL TREND AB	Start	
START DUAL TREND CD	Start	
START QUAD TREND	Start	

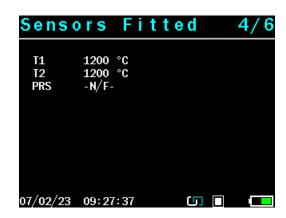


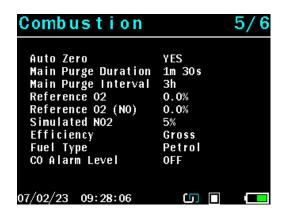
View current configuration and setup - Use ☑ 🖬 to view each page Press HOME to exit change







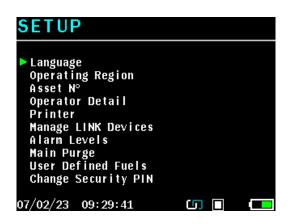








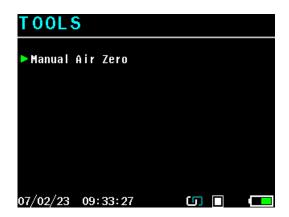
Make further changes - Use to edit each setting. Press HOME to exit without change



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	



For more accurate measurements



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



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 **(0)** 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.

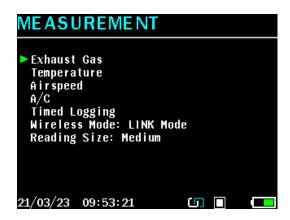
"ANALYSER PURGING 90 secs" countdown appears on display.

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.



Start measurements and tests - Use 🛚 🗖 & 🔁 to edit each test

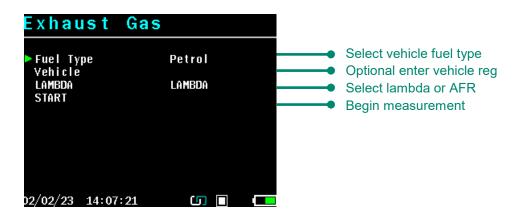


NOTE:- Ensure analyser displays correct date & time before making measurement.

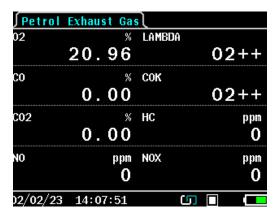


Begins measurement process.

Use ⚠ 🛣 & 🔁 to manage options and start tests

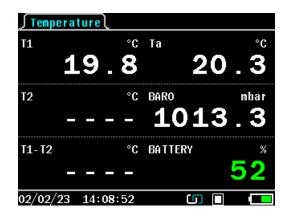


Typical exhaust gas analysis screen





Start pressure and temperature measurements



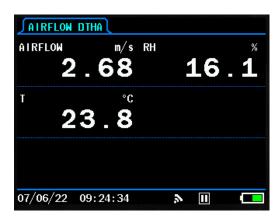


Your analyser tests airflow, RH & temperature with an optional KANE-DTHA2 wireless anemometer.

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



Typical KANE-DTHA2 screen when connected





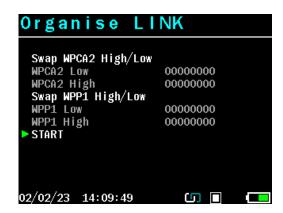
Your analyser tests A/C & Refrigeration systems with optional KANE LINK devices.

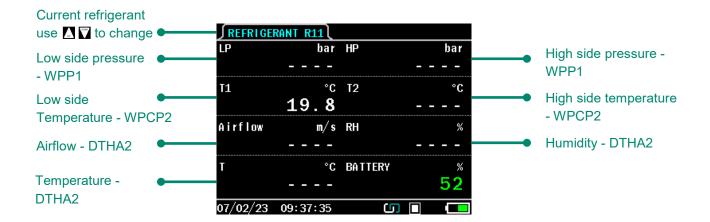
When using for example:

- 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



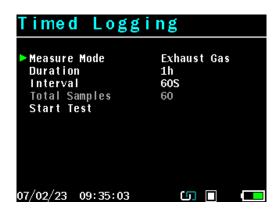


10.5 TIMED LOGS

Configure and perform timed logs

Use 🛕 🗖 & 🔁 to select

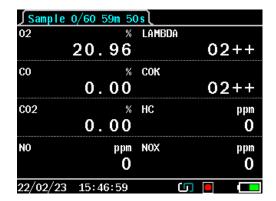
Press HOME to exit without change



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	



Typical test running screen





Select KANE LINK or KANE APP modes



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.

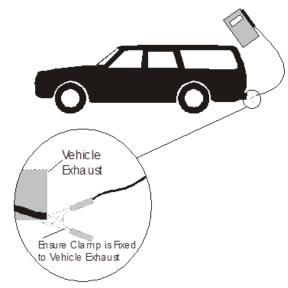
Ensure probe is fully inserted in exhaust pipe to avoid exhaust dilution with back-flushing ambient air.

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.

14 PRINTOUTS

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 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 Comp. Address 1 Address 1 City/Town Postcode Company Tour Company Moder Company Wo	ine 1 ine 2 elephon obile		
KANE-EGA5 Serial N° S/W SI		51922092 V2.1.4+	
Exhaust G	as		
Date Time		07/02/23 11:38:42	
FUEL 02 AFR LAMBDA CO2 HC NO NOX COK	% % ppm ppm ppm %	Petrol 0.00 12.84 0.873 13.6 1088 55 58 3.09	
Ta BARO	°C	21.6 1029.3	
CUSTOMER			

Humidity - DTHA2

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 08:31:02	
T1 °C 94.8 T2 °C 74.5 T1-T2 °C 20.3	
Ta °C 21.1 BARO mbar 1025.7 BATTERY % 100	
CUSTOMER	
REFERENCE 	

WATER TRAP, PARTICLE FILTER AND WATER STOP FILTER

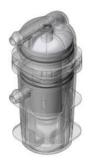
Your analyser has a water trap & particle filter to stop gas water vapour & dust entering your analyser.

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:



Carefully remove
 water trap from housing



2)
Pull reservoir vertically
from filter holder



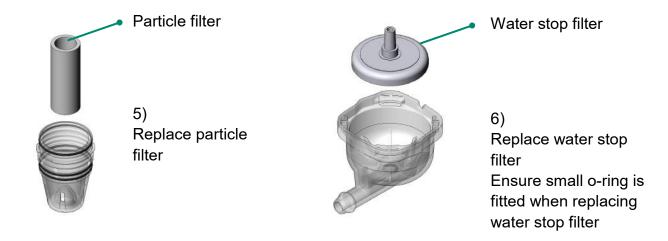


3) Rotate top part of filter housing 30° anti-clockwise



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 **AV** & **INITIAL** buttons.

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



DTHA2 ANEMOMETER

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

Enter serial number using **A V** & **toler** 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 **A** & **—**

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

34 KANE-EGA4/5 MANUAL

WPP1 Pressure Probe

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

Enter serial number using $\blacktriangle \blacktriangledown \& \blacktriangleleft \blacksquare$ 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



MANE79 CO MONITOR

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

Enter serial number using **AV** & **I** 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.

17 SPECIFICATIONS

PARAMETER	RESOLUTION	ACCURACY	RANGE	
Temperature Measurement				
Temperature	0.1°C	±0.1°C ±0.3% reading	-50 - 1200°C With suitable probe	
xhaust 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%	
.ambda \FR (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 Refringents

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	e -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			

18 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.

UK (E

Paul Morrison Engineering Manager

10 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

Outside UK Call +44 1707 375550

Southern & International Customer Service Kane International Ltd

Kane international Ltd

Kane House, 11 Bessemer Road

Welwyn Garden City

Hertfordshire AL7 1GF, UK

e: service@kane.co.uk

t: 0800 059 0800



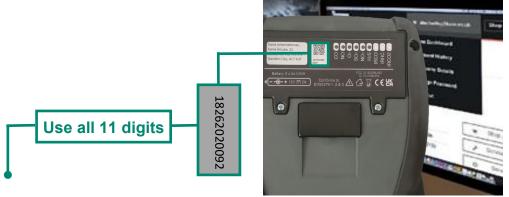
Welcome to KANE CARE

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



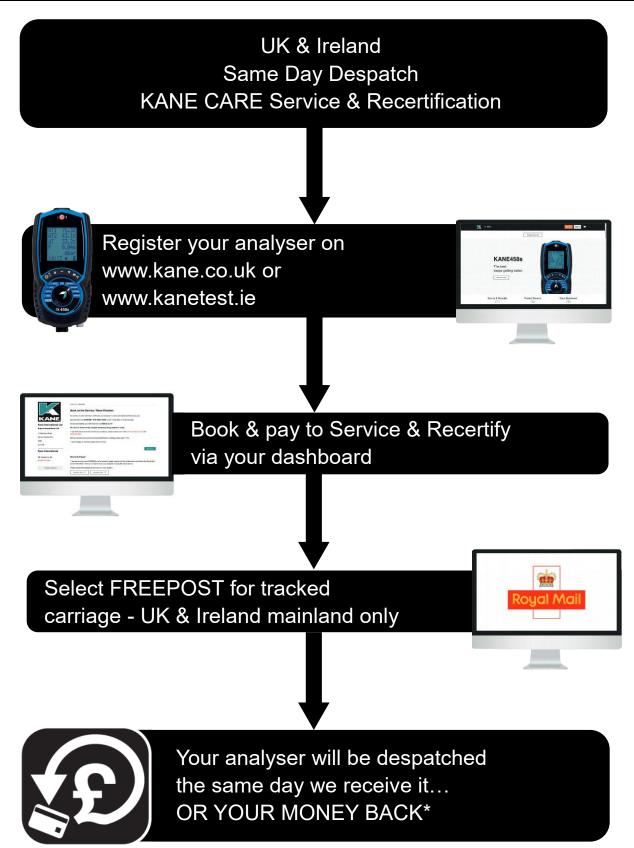












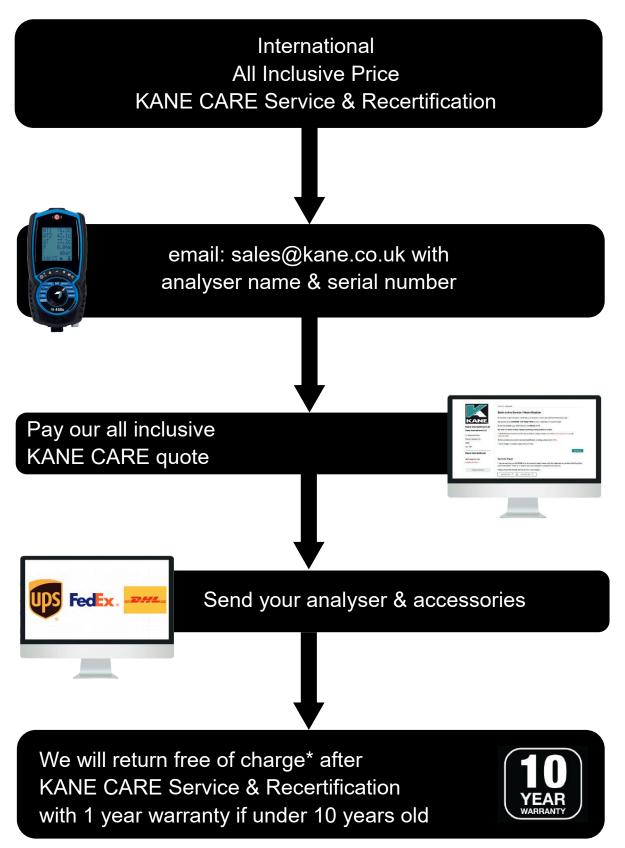
*Excludes KANE-EGA, AUTO600, '9 series' analyser & UKAS certificates - Ireland 2 day turnaround











*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 & wwwkanetest.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

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

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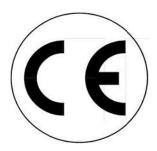


Email: sales@kane.co.uk





THIS PRODUCT CONFIRMS WITH THE FOLLOWING











PLEASE RECYCLE

PACKAGING MADE IN THE UK



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

Stock No: MAN00426 Rev: 1.00323 MARCH 2023