



KANE79



Carbon Monoxide Monitor, Logger & Personal CO Alarm



February 2024

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1

KANE79 OVERVIEW

Your KANE79 measures Carbon Monoxide (CO) levels in any indoor area where people work, live or travel.

Your KANE79 is for use in any normal enclosed environment.

Do not use in areas known as “confined spaces” where other toxic gases may be present or in zoned areas where intrinsic safety is mandatory.

Your KANE79:

- Measures CO to 999ppm
- Logs up to 20,000 tests for transfer to KANE LIVE
- Captures maximum value
- Preset & vibrating alarm
- Visual colour LED & audible tone
- Data hold
- Battery life Indicator
- Long life sensor with 5 year expected life

1.1

DATA LOGGING

Your KANE79 can be set by our KANE LIVE app to log up to 20,000 tests - see section [5](#)

1.2

KANE LINK

- You can wirelessly connect up to 4 KANE79 CO monitors to your KANE LINK analyser
- When powered on, they replace or add measurements to your KANE LINK analyser
- See section [6](#) to add, manage or delete KANE LINK devices

**SAFETY WARNING!**

CO is life threatening even at low concentrations

Ensure you understand the risk before investigating

This monitor measures gases toxic in relatively low concentrations.

Always power on and zero monitor in fresh outdoor air

This monitor must only be used by trained and competent persons after due consideration of all potential hazards.

You should conduct a “bump” test before using monitor.

A “bump” test is a way to check a monitor works within acceptable limits by briefly exposing it to known gas mixtures that to changes output of sensors present.

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

A bump test can be conducted using a disposable canister of CO sometimes used to check domestic CO alarms.



Every button press makes an audible beep

**WARNING!**

Always power on in fresh outdoor air away from boiler flues, vehicle exhausts, bbq, smokers and any other source of CO

1. Power On by pressing On/Off button
2. Zero countdown starts at 30



3. Normal display:



Monitor displays CO in ppm 3 digits

Battery level indicator in top left corner

CO scale of ppm in bottom right corner

4. Display Maximum CO measured

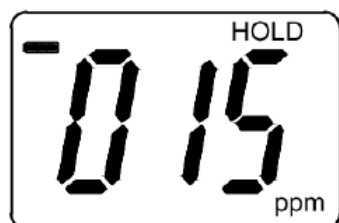


Press MAX  to display highest measurement while monitor ON

Press again to return to current value

Maximum value reset when monitor powered off & on

5. "HOLD" CO measured



Press  to hold display

Press again to return to current value

Hold value reset when monitor powered off & on

6. Press power On/Off for 3 seconds to power Off

Note: Ensure monitor sensor cover is free from obstruction.

KANE79 is an ambient air monitor - It does not replace tests requiring specific probes for appliance testing.

Do not expose monitor to ambient temperatures above 40°C.

Do not use monitor to directly measure flue gases.



WARNING!

If CO levels in a room or space exceed 20ppm

1. Switch off all appliances
2. Evacuate and ventilate the room or space
3. Contact Emergency Services

5

SET KANE79 TO LOG, VIEW & TRANSFER LOGS

5.1

WIRELESS MODES - OFF, LINK & APP

To log CO tests, you must set your KANE79 via KANE LIVE app.

Your KANE79L powers on with wireless communications off (i.e. Normal Mode) to extend battery life.

Change modes as follows:

1. Press & hold **MAX** & **HOLD** for 2 seconds to open menu
2. Press **MAX** (Up) or **HOLD** (Down) to see modes
3. Press **ON/OFF** (ENTER) to select mode

	NORMAL – All wireless communications disabled.
	LINK – Your KANE79L sends live CO measurements to a KANE LINK analyser but cannot connect to KANE LIVE app.
	APP – Your KANE79L connects to KANE LIVE to set and start logging or share live readings.

NOTE: After 10 minutes of no activity, your KANE79L switches to NORMAL to extend battery life.

5.2 CONNECT TO KANE LIVE

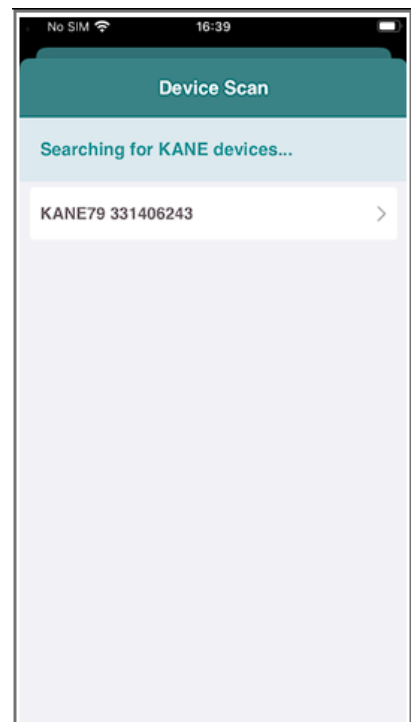
NOTE: Download KANE LIVE app to your smartphone or tablet & enable bluetooth on your device.



Follow [5.1](#) to change KANE79 to APP MODE



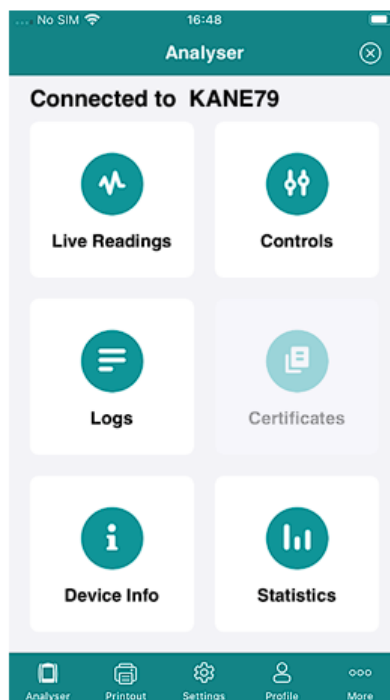
Open KANE LIVE & tap **CONNECT**



Locate KANE79 in Device Scan list & tap to connect

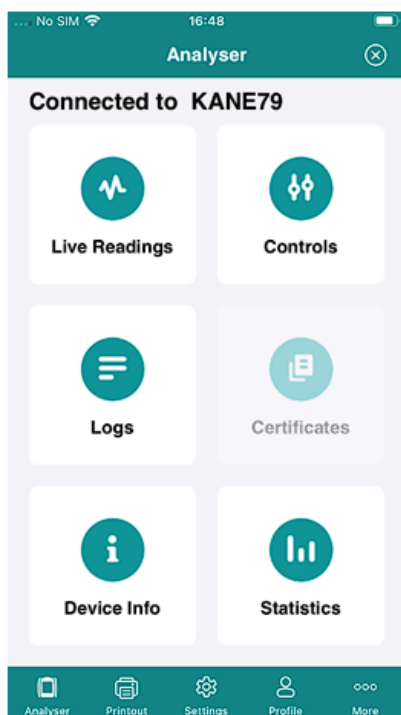


KANE LIVE connects

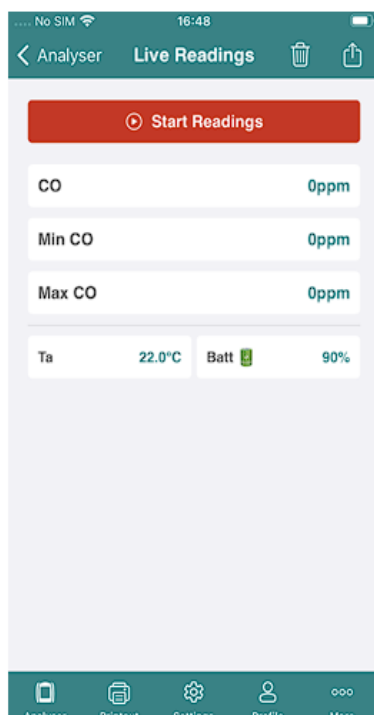


...and presents this screen when connected

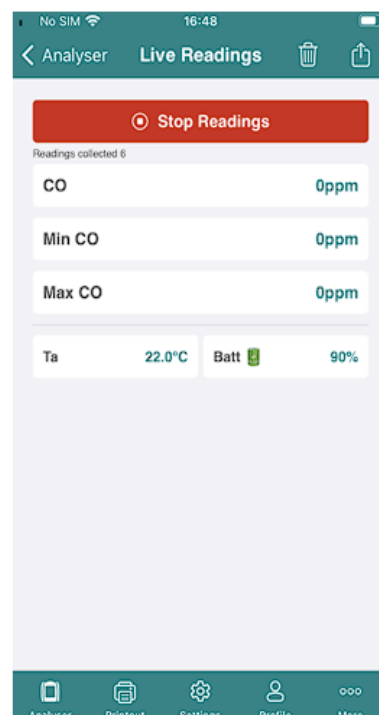
5.3 DISPLAY & RECORD READINGS



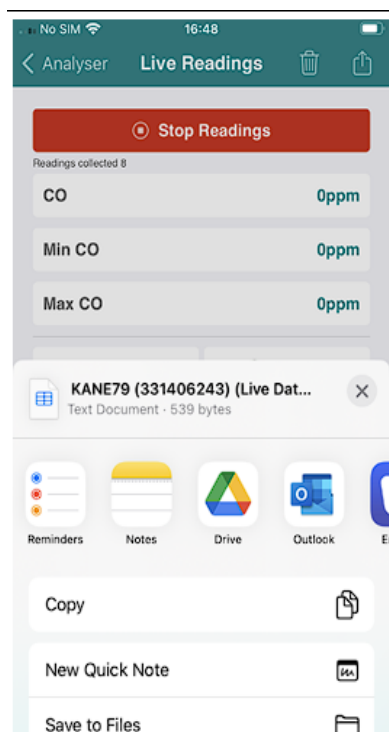
Tap **Live Readings**



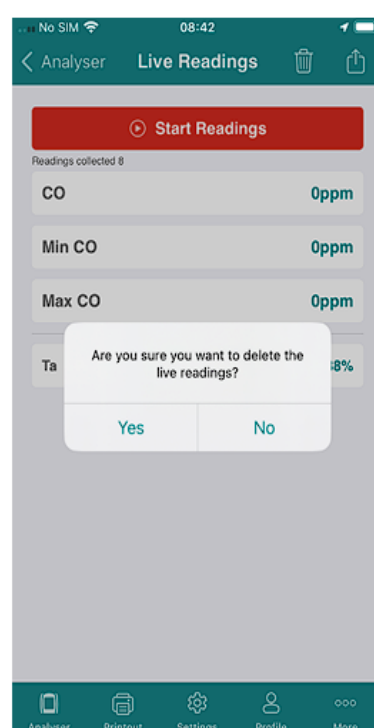
To record live readings, tap **Start Readings**



Stop & restart any time



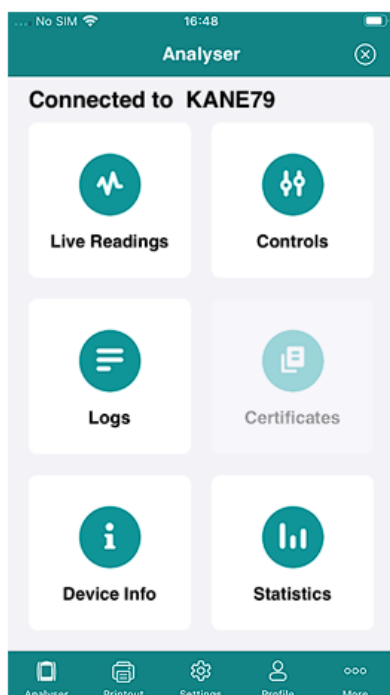
To save recorded readings in *.csv format, tap share icon in app header bar & select app or action



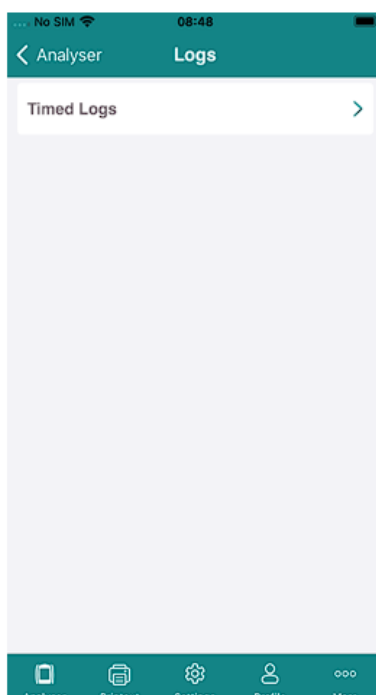
To clear recorded readings from app, tap delete icon in app header bar

⚠ WARNING: Recorded readings are lost if you close or disconnect app before sharing or saving

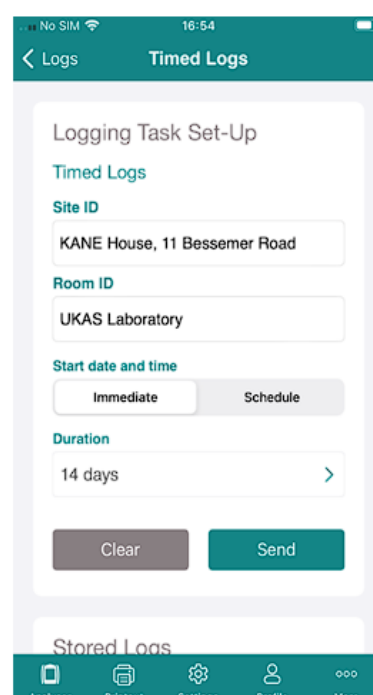
5.4 START IMMEDIATE LOG



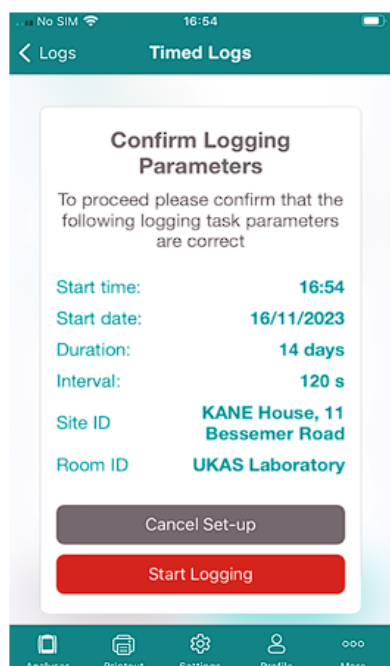
Tap **Logs**



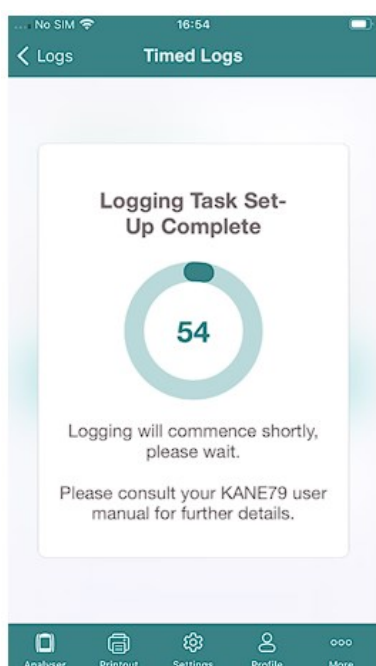
Tap **Timed Logs**



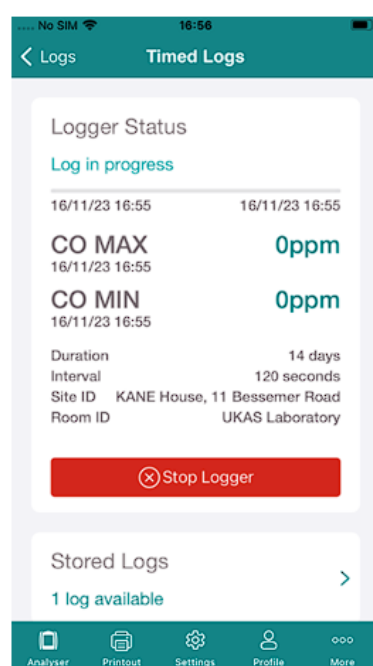
Enter **Site ID & Room ID** and tap **Immediate**, select duration then tap **Send**



Tap **Start Logging**

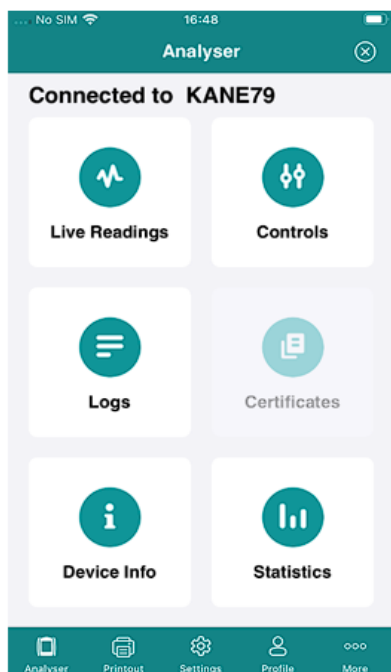


Task starts after a short countdown

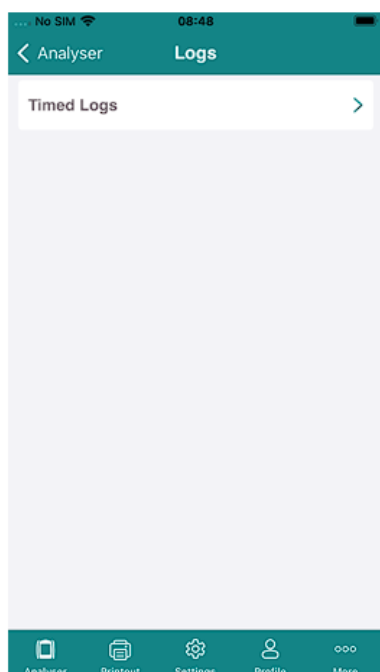


See current progress & time stamped mini & max CO readings - disconnect KANE79L from KANE LIVE

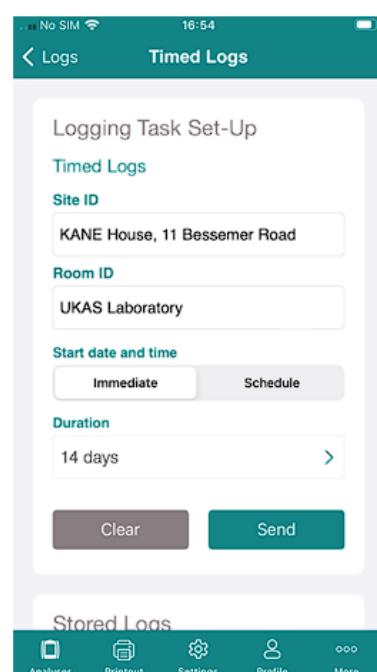
5.5 START SCHEDULED LOG



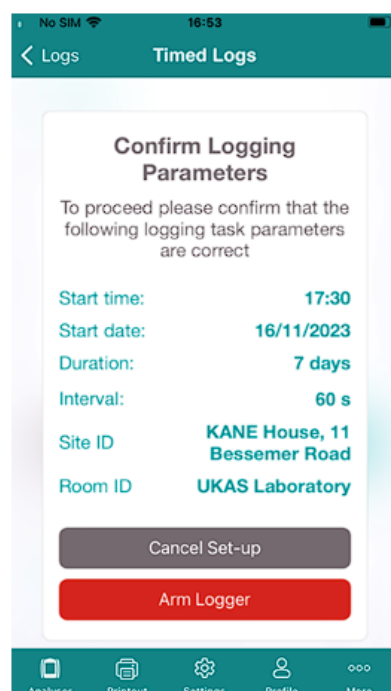
Tap **Logs**



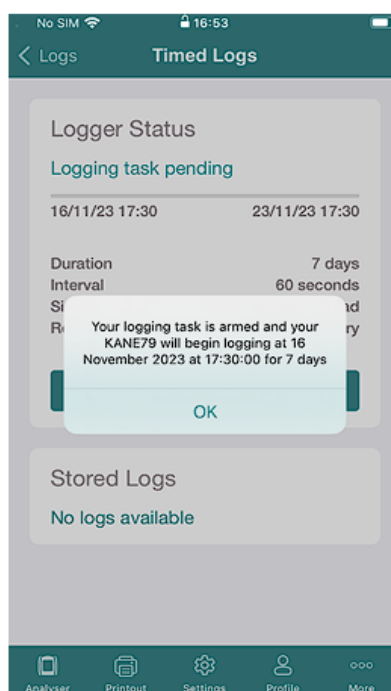
Tap **Timed Logs**



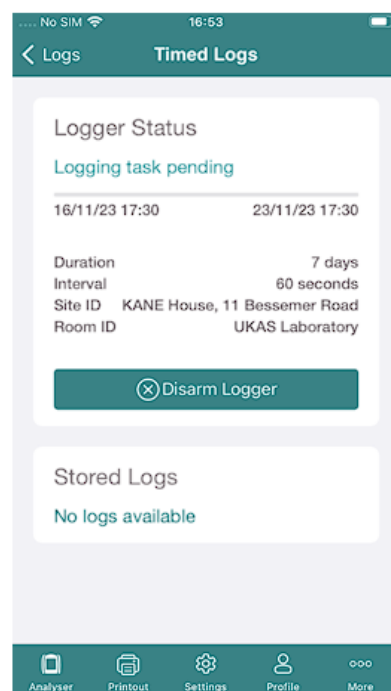
Enter **Site ID & Room ID** and tap **Schedule**, select start time, date & duration, then tap **Send**



Tap **set Logger** to schedule logging



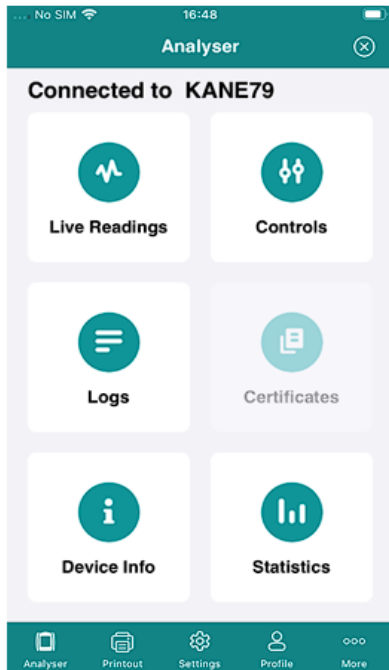
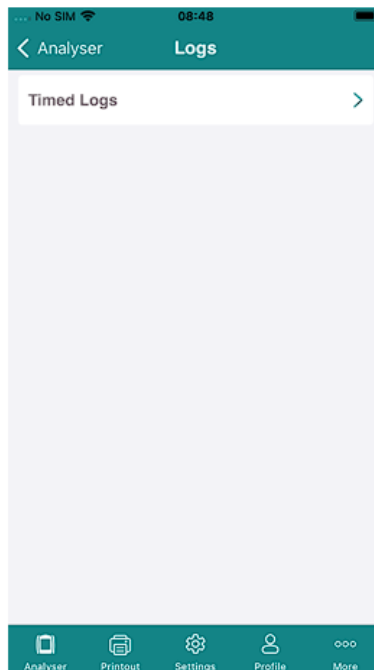
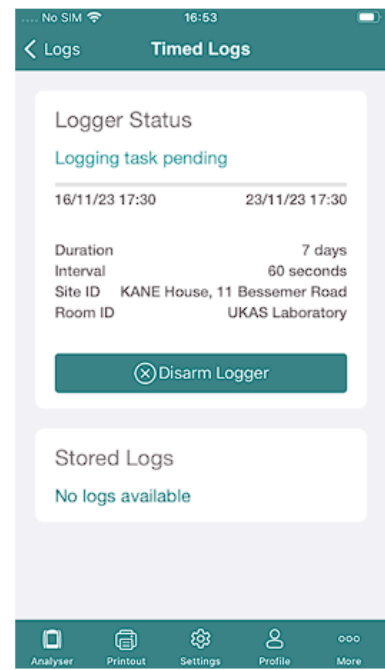
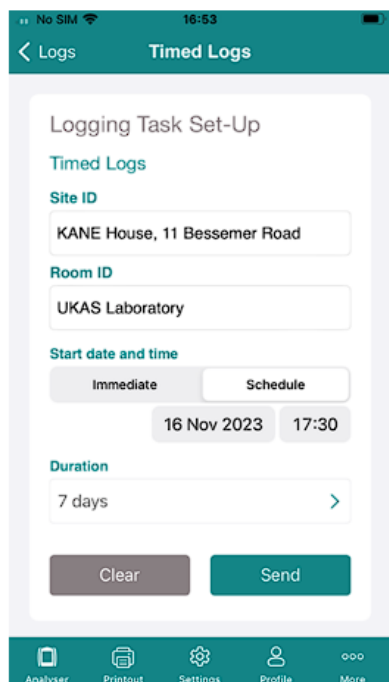
See confirmation your task is set



& pending
Disconnect KANE79L from KANE LIVE

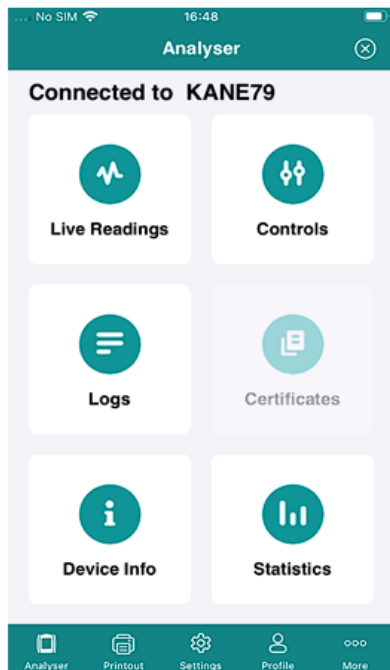
5.6

STOP SCHEDULED LOG VIA KANE LIVE

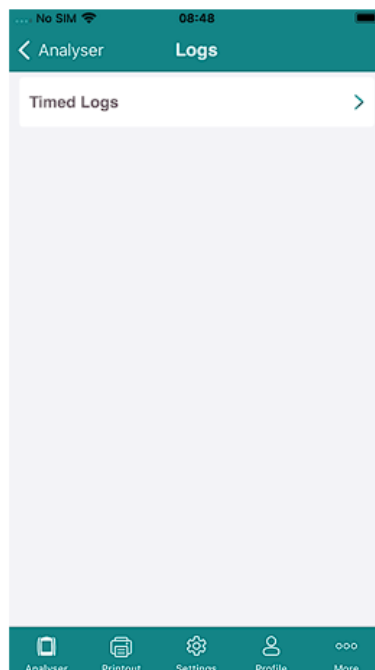
Tap **Logs**Tap **Timed Logs**Tap **Stop Logger & confirm**

Task stops & returns to task set-up

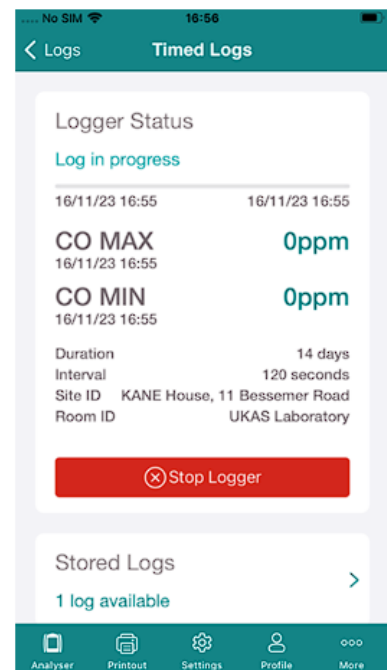
5.7 SEE STATUS OF IN PROGRESS LOG



Tap **Logs**

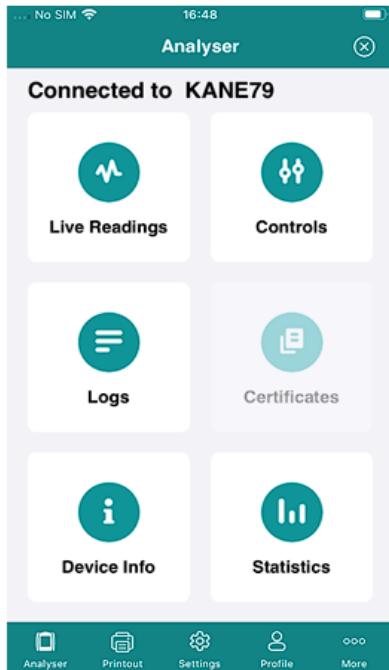


Tap **Timed Logs**

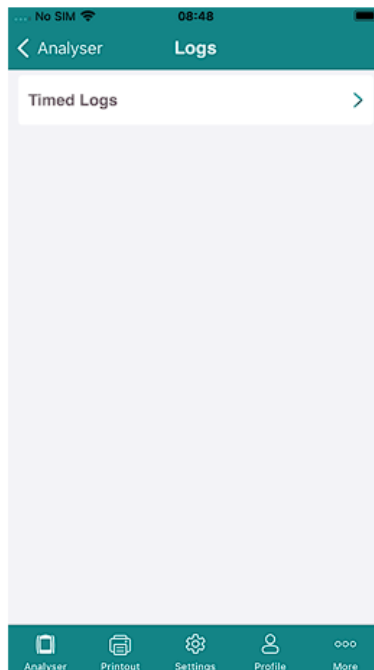


See status

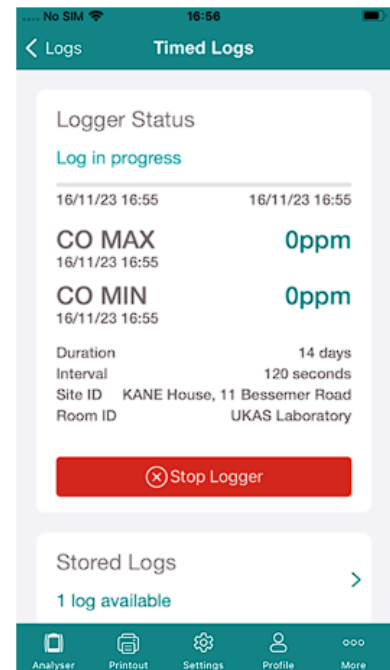
5.8 STOP IN PROGRESS LOG



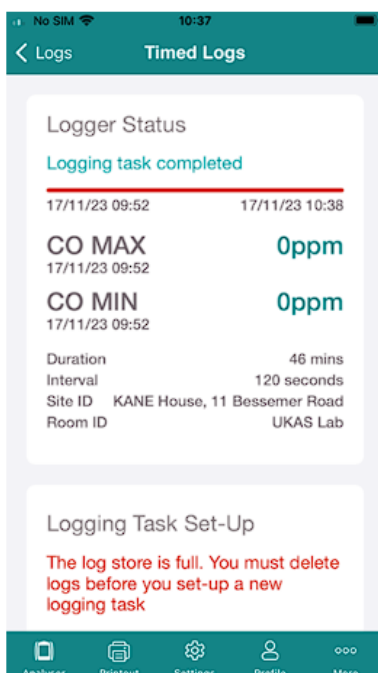
Tap **Logs**



Tap **Timed Logs**

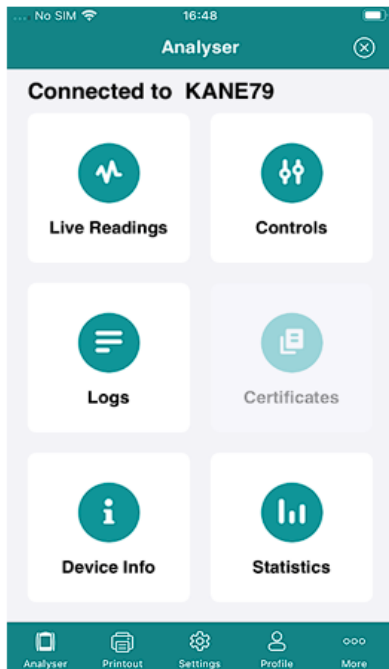


Tap **Stop Logger & confirm**

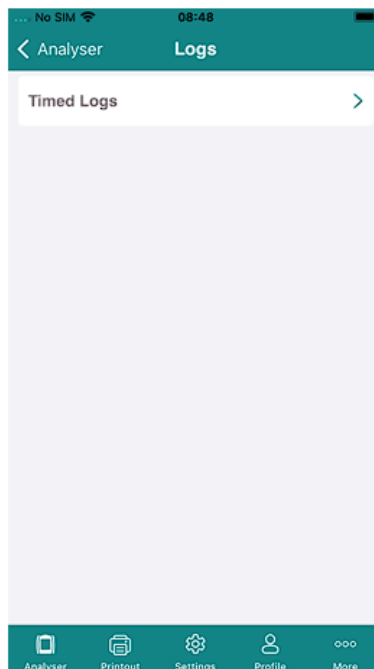


Task stops & displays summary

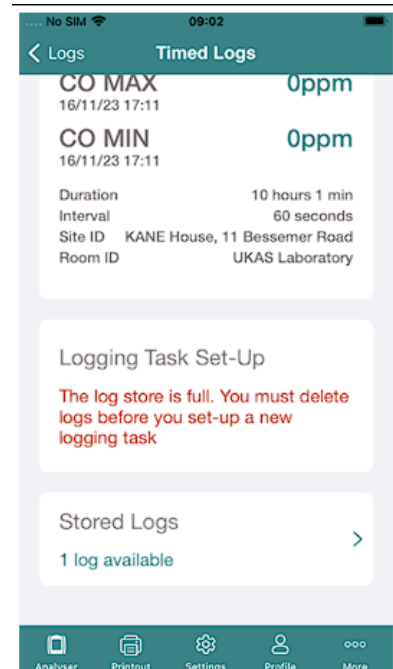
5.9 DOWNLOAD TIMED LOGS



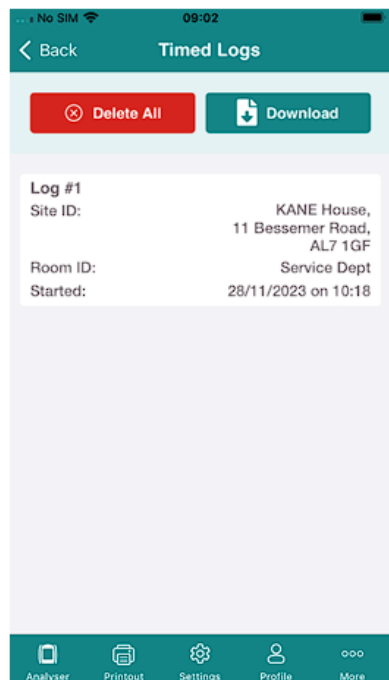
Tap **Logs**



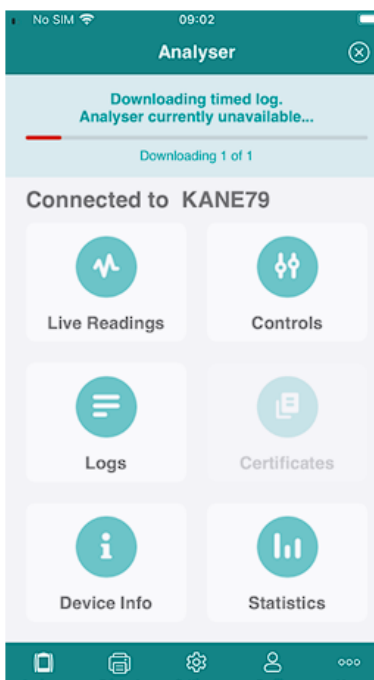
Tap **Timed Logs**



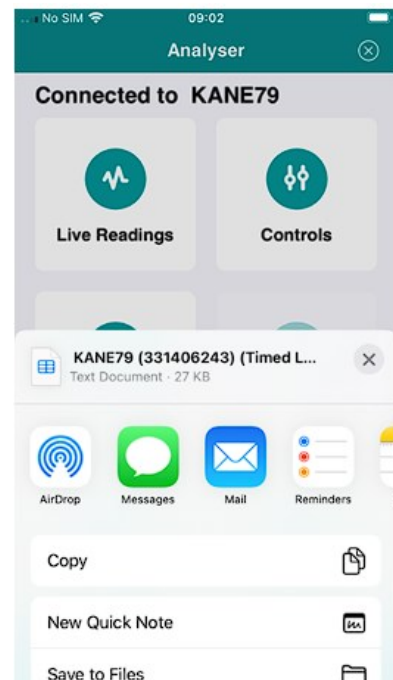
Scroll down & tap **Stored Logs**



Tap **Download**

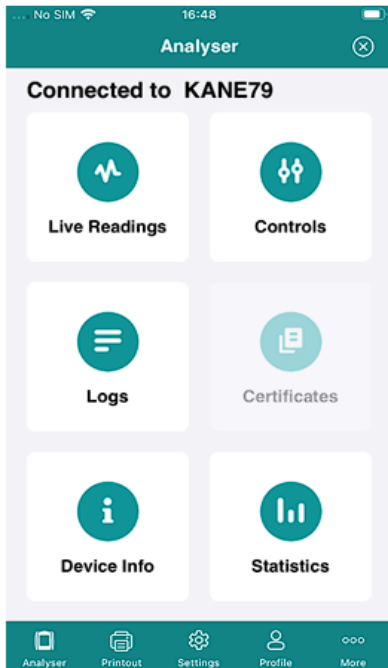


If log contains much data download may take time

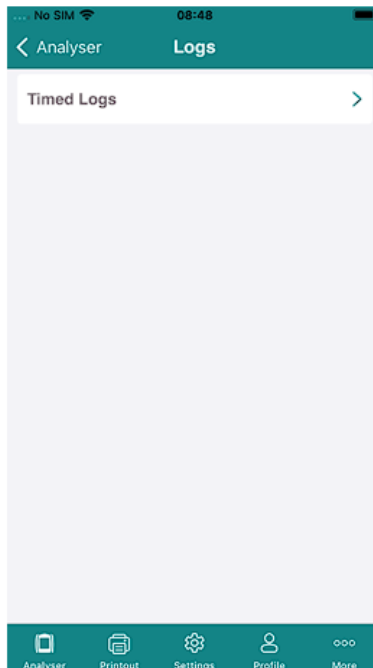


...When download complete save or share data in *.csv format.

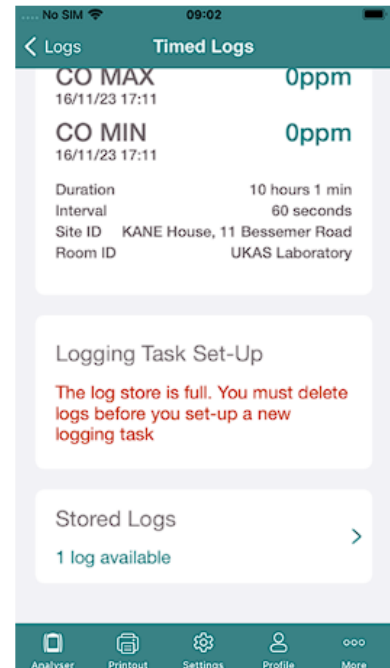
5.10 DELETE TIMED LOG DATA



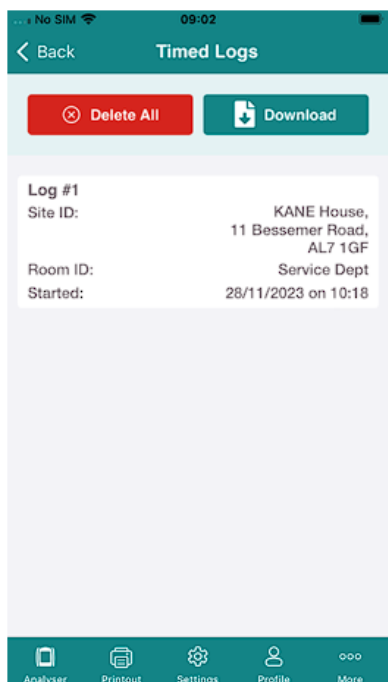
Tap **Logs**



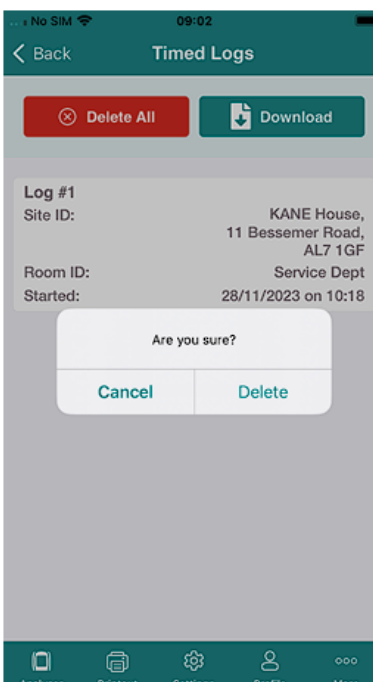
Tap **Timed Logs**



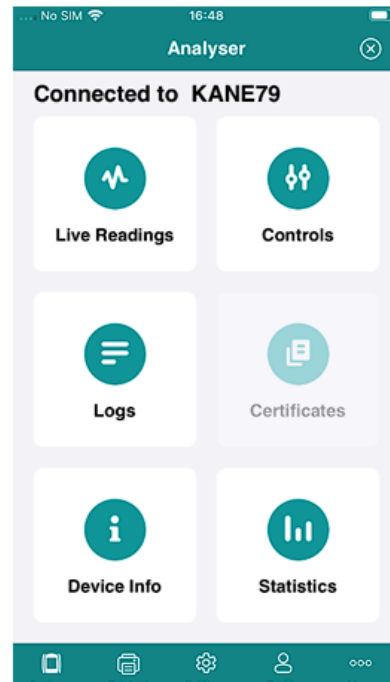
Scroll & tap **Stored Logs**



Tap **Download** to download stored logs



Confirm you wish to delete all logs



Return to KANE LIVE home

6

USE KANE LINK TO CONNECT TO YOUR ANALYSER

Powering on your KANE79 activates KANE LINK - an automatic wireless link to your KANE LINK analyser.

You can connect & display readings from up to 4 KANE79 on your KANE LINK analyser

1. This means you can simultaneously test up to 4 rooms for CO while testing an appliance with your analyser.
2. Press & HOLD MAX & hold for 2 seconds
To open KANE79 MENU Press MAX or HOLD to select LINK then press ON/OFF once to confirm selection - see section 5.1
3. Keep this setting to see KANE79 readings on your analyser

To connect, find your KANE79 serial number on reverse of the belt clip and prepare your KANE LINK analyser to add your KANE79 serial number.



Enter serial number in your analyser - once entered, readings are automatically sent whenever powered on & connected to your analyser

NOTE:

Serial number must be 10 digits long - If shorter, enter 0's to make up to 10

For example - enter serial number J12345678 as 0012345678

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

These values are based on known environmental and health standards:

Concentration of CO in air	Inhalation Times & Toxic Symptoms
4ppm	WHO average allowable concentration in 24 hour period
10ppm	Maximum allowable concentration for an 8 hour period without any known health risks according to UK Department of Health and British Standards BS7967
30ppm	Maximum allowable concentration for competent persons to work in when investigating reports of fumes according to British Standards BS7967
200ppm	Mild headache, fatigue, dizziness and nausea after 2 to 3 hours
400ppm	Frontal headache and nausea within 1 to 2 hours. Life threatening after 3 hours
800ppm	Severe headache, dizziness and convulsions with 45 minutes. Unconsciousness within 2 hours. Death within 2 to 3 hours
1,600ppm	Headache, dizziness and nausea within 20 minutes. Death within 1 hour
3,200ppm	Headache, dizziness and nausea within 5 to 10 minutes, Death within 30 minutes
6,200ppm	Headache, dizziness and nausea within 1 to 3 minutes. Death within 10 to 15 minutes
12,800ppm	Death within 1 to 3 minutes



WARNING!

Effects vary depending on size, age, sex & health - we are not liable for information accuracy.

ZERO CO in air is your objective.

8

AUDIBLE & VIBRATING ALARM

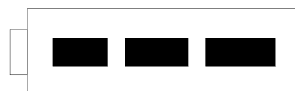
Your KANE79 has 3 alarm levels:

CO Levels	Indication
2-9ppm	Green LED flash once every 3 seconds
10-19ppm	Red LED flash once every 2 seconds
> 20ppm	Red LED flash once per second, sound and vibration active

9

BATTERY STATUS

Full battery



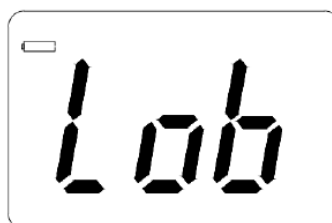
Low battery



Do not use when battery symbol is low or empty - Replace battery immediately.

If battery levels fall to a level where accuracy may be compromised, monitor gives audible & visual warning before powering off.

Low battery alarm
before power off

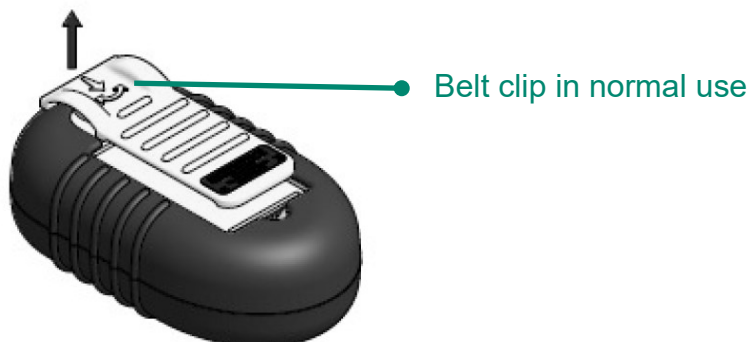


WARNING!

Do not ignore warnings - your safety may be compromised.

REPLACING BATTERIES

KANE79 battery compartment is located underneath belt clip. Belt clip is spring loaded to prevent rotation in normal use.



1. Lift belt clip at pivot end against spring by a few millimeters then rotate 90 degree to clear battery compartment cover.



2. Remove cover and replace battery - We recommended alkaline batteries.

Always recycle spent battery through an approved battery recycling scheme.

3. Replace cover and rotate belt clip back to normal position.

WARNING!

Always check for correct operation after replacing battery and always zero in outdoor fresh air.

If display fails to zero within minutes sensor has either reached end of life or was exposed to excessive levels of CO.

Contact KANE if this continues

Always check for correct operation before each use.

To test your KANE79, use a known source of CO taking care to act in a safe manner and not expose sensor to extreme temperatures or CO concentrations.

Contact KANE if in doubt.

If during use you detect CO leaks, ensure you know what action to take to protect yourself and others.

After use, always expose monitor to fresh air until readings fall below 5ppm, before powering off monitor.

Note: readings fall slowly so you may need to wait some minutes.

Range:	0-999ppm
Resolution:	1ppm
Accuracy:	± 3 ppm 0 to 100ppm ¹ $\pm 5\%$ reading > 101ppm
Audible Alarm:	See page 11
Visual Indication:	LCD and LED
Battery:	3 x AAA alkaline batteries
Battery Life:	Up to 2 weeks logging, and Up to 250 hours ² Duracell Procell
Ambient Temperature:	0-40°C (32-104°F)
Warranty:	1 Year

¹ As per EN 50543 : 2011

² Based on normal use without alarms.

NOTE:

No user serviceable parts

Recertify every 12 months

Check for correct operation using this manual before use

Clean this monitor with a lint free damp cloth and a small quantity of non-abrasive detergent.

Avoid moisture entering the sensor cover and after cleaning, leave in a warm dry place to evaporate any surface dampness.

Do not use solvent cleaner - it may damage the case, display & sensor.

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 KANE Customer Service.

WHERE TO SEND YOUR ANALYSER

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 House, 11 Bessemer Road
Welwyn Garden City
Hertfordshire
AL7 1GF, UK
e: service@kane.co.uk
t: 0800 059 0800

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 KANE79 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
2014/30/EU	Electromagnetic Compatibility (EMC)
2011/65/EU	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. December 2023

Kane International Ltd.



Paul Morrison
Engineering Manager



Welcome to KANE CARE

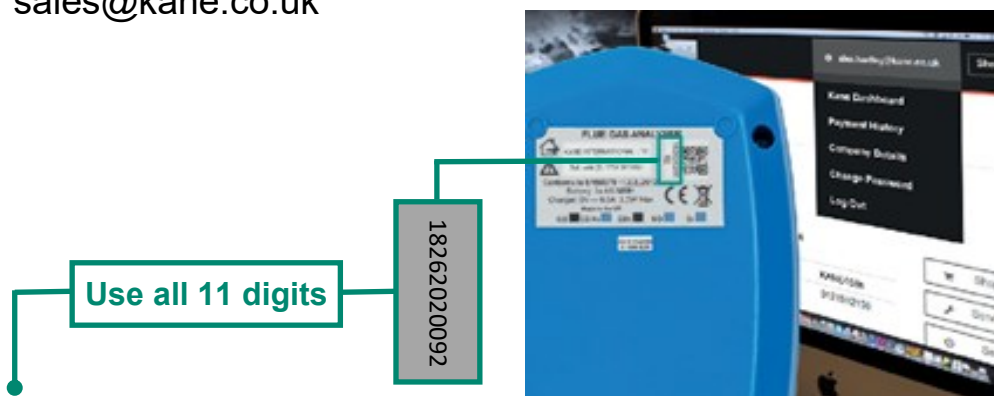
17

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

Analysers & CO monitors must be serviced and recertified every year - In some markets this is a legal requirement

KANE CARE is all inclusive and applies to any KANE analyser or monitor booked online via www.kane.co.uk & www.kanetest.ie - some exclusions apply

KANE CARE is also available for customers outside UK & Ireland
- 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 or monitor, buy spares & other KANE products
- ★ Find FAQs on our website or YouTube Channel
- ★ Any question? Call 0800 059 0800 7am - 6pm any normal weekday

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





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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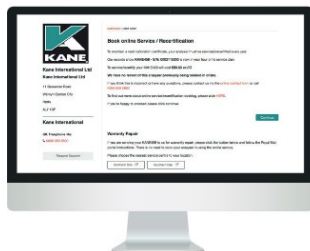
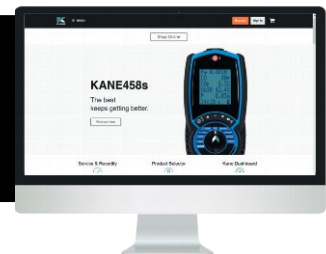
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UK & Ireland
Same Day Despatch
KANE CARE Service & Recertification



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

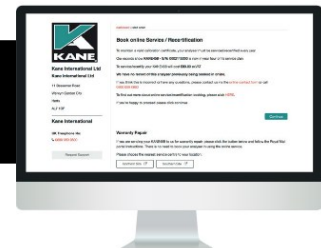


International
All Inclusive Price
KANE CARE Service & Recertification



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



Welcome to KANE UKAS



18 KANE UKAS CERTIFICATION - ISO 17025:2017

- ★ UKAS accreditation is the highest approval standard a test & measurement supplier can achieve - It confirms their certification laboratory operates to the highest standard of competence & impartiality
- ★ UKAS is the only recognized UK authority assessing laboratory standards & capability
- ★ KANE is the only Flue Gas Analyser manufacturer accredited by UKAS to ISO 17025:2017 for gas certification
- ★ UKAS calibration certificates from KANE are legal documents you can submit in evidence to a UK court - they prove your analyser was certified to highest possible standard
- ★ Order fixed price UKAS certification any time - allow 3 days turnaround when returning your analyser for KANE CARE Service & Recertification

Any question? Email: ukas@kane.co.uk

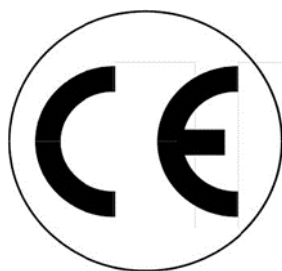


More info at: www.kane.co.uk/service-and-re-calibration

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