KANE958

Flue Gas Analyzer with direct O2 Measurement and CO sensor protection

KANE COD LINK



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ANNUAL RECERTIFICATION SERVICE	

KANE958 OVERVIEW

Your KANE958 combustion Analyzer measures:

- Carbon Monoxide (CO)
- Oxygen (O2)
- Pressure
- Differential Temperature
- Temperature
- Differential Pressure

Depending on your options it measures or calculates:

- Carbon Dioxide (CO2)
- Nitric Oxide (NO)
- Nitrogen Oxides (NOx)
- CO/CO2 ratio
- Combustion Efficiency
- Losses
- Excess Air
- Sulphar Dioxide (SO2)
- Nitrogen Dioxide (NO2)

Your KANE958 has a protective rubber cover with magnets for "hands-free" operation and is supplied with a flue probe with integral temperature sensor.

Your KANE958 has a low flow detector system to switch off the Analyzer pump if it detects water entering from an over filled water trap.

Your KANE958 has a large 6 line display showing data and test results based on your actions. The display bottom line also highlights Analyzer status at all times.

Your KANE958 prints test results using an optional infrared printer or wirelessly sends them to the KANE wireless APP.

Your KANE958 stores up to 45 logs of any combination of Combustion, AUX, Temperature & Pressure test results.

You can enter 2 lines of 24 characters on your test results printout.

ANALYZER FEATURES AND KEYPAD



KEYPAD BUTTONS

ICON	DESCRIPTION
SAVE LOG	Long press to store data
PRINT REPORT	Short press to print a report - Analyzer offers a destination choice when wireless & irda fitted
NAVIGATE UP	Short press to scroll up
	Use to select current option - also selects worklight in some dial positions
NAVIGATE DOWN	Short press to scroll down
DATA HOLD	Short press to hold current data on screen - see status bar section on page 13
PUMP ON/OFF	Press to turn pump on or off



Function Keys



Rotary dial

ANALYZER LAYOUT





BATTERIES

BATTERY TYPE

Your KANE958 uses rechargeable Nickel Material Hydride (NiMH) batteries

- Using other battery types may void your Analyzer's warranty.

Although you can use Alkaline batteries you must not charge your Analyzer 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 Analyzer, remove protective rubber cover, find battery compartment & fit 3 NiMH "AA" rechargeable batteries ensuring correct battery polarity. Replace battery cover & protective rubber cover.

TIME AND DATE

After changing batteries reset your Analyzer time & date.

CHARGING NIMH BATTERIES

Your KANE958 uses a standard Micro USB connector - For best results turn off then connect your charger. Charging indicator will illuminate then turn off when charging is complete.

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

If your batteries discharge and your Analyzer enters a low power shutdown, 1 hour charge provides approx. 2 hours continuous use.

BATTERY DISPOSAL

Always dispose of depleted batteries using approved disposal methods to protect our environment.

GENERAL SAFETY

A SAFETY WARNING

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

Portable gas detectors should conduct "bump" tests before relying on units to verify atmospheres are free from hazards. A "bump" test is a way to check an instrument works within acceptable limits by briefly exposing it to known gas mixtures to change the output of all sensors present.

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

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

This Analyzer is designed as Class III equipment and should only be connected to SELV circuits. The battery charger is designated as:

- Class II equipment
- Installation category II
- Pollution degree 2
- Indoor use only
- Altitude to 6,562ft
- Ambient temperature 32°F to 104°F
- Maximum relative humidity 80% for temperatures up to 87.8°F decreasing linearly to 50%RH at 104°F
- Mains supply fluctuations not to exceed 10% of the nominal voltage

COLD WEATHER PRECAUTIONS

It is important you keep your Analyzer in a warm place overnight.

Electronic devices that become really cold, by being left in a vehicle overnight, suffer when taken into a warm room the next morning. Condensation may form affecting Analyzer performance. Analyzer electrochemical sensors are affected by condensation or water being sucked into the Analyzer, stopping sensors seeing flue gas. When this happens, oxygen or carbon dioxide reading will display as "-" & sensors may be permanently damaged.

If you think your Analyzer is affected by condensation or water ingress, leave the Analyzer running in a warm place with pump 'ON' sampling fresh air for a few hours. Connect your mains adapter or battery charger to avoid draining batteries. If you still experience problems please contact UEi Customer Services.

FIRST TIME USE

Charge your Analyzer 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 Analyzer configuration may not support all features explained in this manual.

Before using your Analyzer ensure it is set up for your requirements.

NOTE: Your Analyzer STATUS bar displays current time, date and battery status -Check time & date are correct as they can only be changed if you have not stored logs in Memory to protect the integrity of your stored data.

GENERAL OPERATING PRINCIPLE

Using your KANE958 is simple with the rotary dial and user interface. Most tests can be made with little user activity.

Your Analyzer status bar offers options based on tasks you are performing and displays useful information and messages.

QUICK START

Turn on your Analyzer in fresh outdoor air pressing the **()** button for 2 seconds. Your Analyzer starts a 60 second zero calibration - once completed select your tests by turning the Analyzer rotary dial.

USER INTERFACE

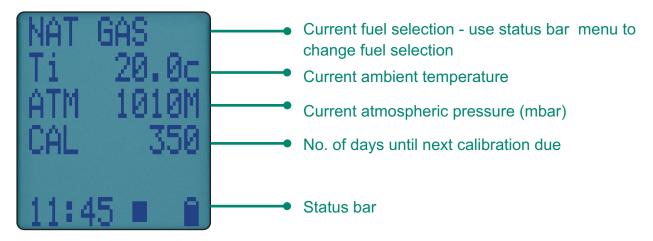
Your Analyzer display shows 5 lines of tests & a status bar. The backlight activates on each button press then turns off after 10 seconds.

Navigate through your options and menu choices via 3 dedicated **AV** & **buttons**.

Button presses are either short or long.

STATUS

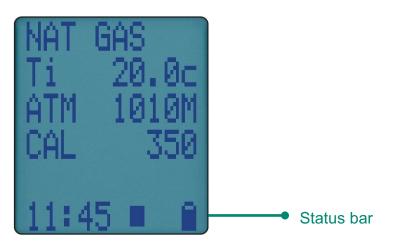
Rotate dial to "Status":



STATUS BAR

Status bar shows Analyzer status and offers options based on your settings.

Navigate through status bar options via \blacktriangle & \checkmark buttons when status bar is on display.



STATUS BAR LAYOUT

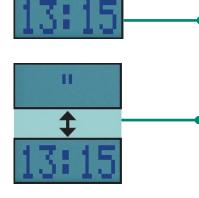
Status bar splits into 2 zones, Message & Icons shown below:

Messages	lcons	

STATUS BAR MESSAGE ZONE

CLOCK FUNCTION

DATA HOLD FUNCTION

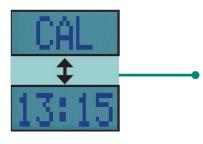


Displays current time

Display alternates between hold symbol & Time stamp of held data

CALIBRATION DUE WARNING MESSAGE

AIR PURGE "SNOOZE" TIMER



Display alternates between calibration due and current time

LOW BATTERY WARNING MESSAGE



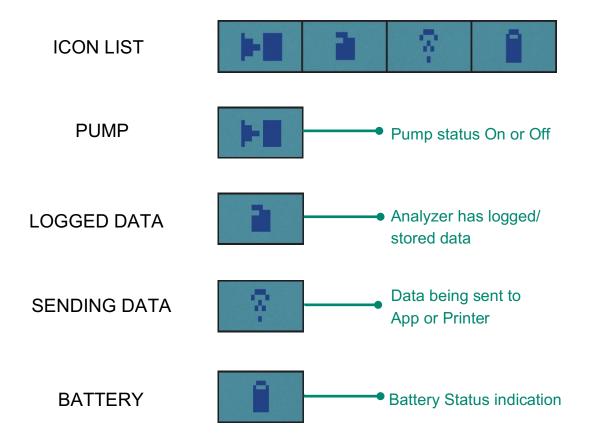
Display alternates air purge delay symbol & Current time

Display alternates between BAT symbol & Current time

STATUS BAR ZONES

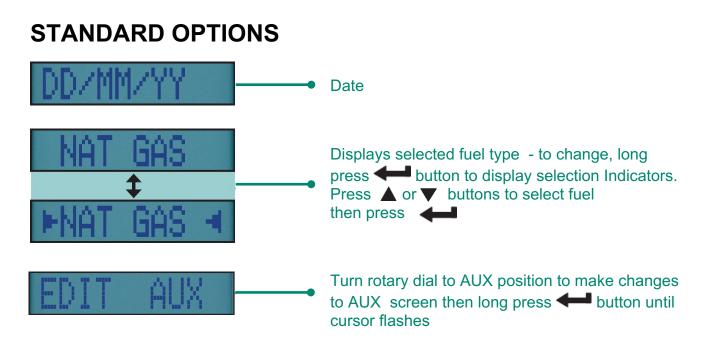
Icons give quick and simple status information:

STAUS BAR ICON LEVEL



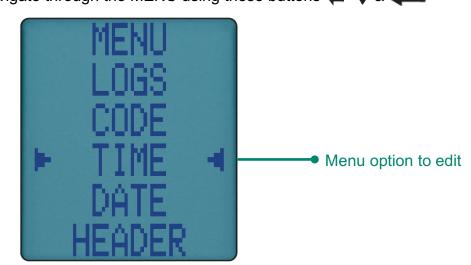
STATUS BAR MENU OPTIONS

Status Bar offers you contextual menu items based on your display screen.



USING MENU

Rotate dial to MENU to customise your Analyzer default setting to your requirements.



Navigate through the MENU using these buttons 🖨 🔻 🚛

As you navigate up or down items will move up or down the screen returning to the beginning.

Note: To exit menu turn your Analyzer rotary dial to any position - note any unsaved changes will be lost.

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MENU ITEMS

MENU ITEM	MENU TEXT	OPTIONS/COMMENTS	
TIME	TIME	HH:MM:SS format E.G 7am = 07:00:00, 7pm = 19:00:00	
DATE	DATE	DD/MM/YY format	
HEADER	HEADER	Edit 2 Line Header on your printouts	
PRINTER TYPE	IR PRINT	Select, KMIRP, IRP-3	
GAS SCALE	GAS UNIT	Select, ppm, mg/m3, Mg/kWh	
O2 REF	O2 REF	Used for "Normalized" readings. Default set to 3%, can be adjusted up or down	
IF NO OPTION FITTED	NOX CALC	Enables selection of NOx equation types and assumed percentage of NO2. NOx equations are: NOx reference to NO NOx sum equation (NO + NO2) NOx reference to NO2	
LOGS	LOGS	View current memory usage & stored logs	
AIRFLOW	AIRFLOW	Change airflow scale and adjust pitot factor	
EFF	EFF	Efficiency calculation Analyzer set to Gross or Net - Condensing automatically selected based on selected fuel type	
LANGUAGE	LANGUAGE	Select required language from list	
UTIL	UTIL	Consists of a sub menu to: INFO - View firmware information B'LIGHT - Set backlight timeout (S) LEAK - Perform system integrity test	
CODE	CODE	Password protected for authorised service agents only - Default to 000000	

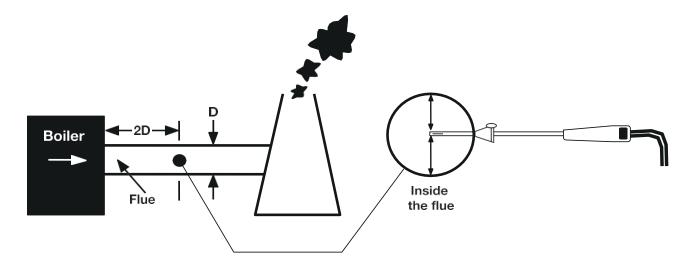
MEASURING FLUE GASES

After countdown is finished and your Analyzer is correctly set up, put your flue probe into the appliance sampling point. The probe tip should be in the flue centre - use flue probe depth stop cone to set position.

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



Ensure your flue probe handle does not get hot!



Do not exceed Analyzer operating specifications - In particular:

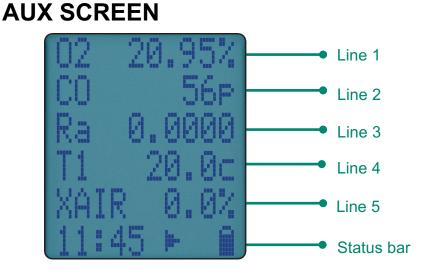
- Do not exceed flue probe maximum temperature (600°C)
- Do not exceed Analyzer internal temperature operating range
- Do not put Analyzer on a hot surface
- Do not exceed Analyzer water trap levels
- Do not let Analyzer particle filter become dirty and blocked

Check readings are stable and within expected range.

CO SENSOR PROTECTION PUMP OPERATION

Your Analyzer CO sensor is automatically protected from high levels of CO. When CO is above the maximum range of your Analyzer the main pump stops and CO Purge pump starts.

Your Analyzer displays ---- until CO levels fall below the maximum measurement range.



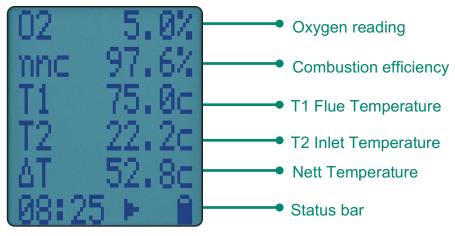
EDITING THE AUX SCREEN

You can customise lines 1 to 5 of your Analyzer AUX screen.

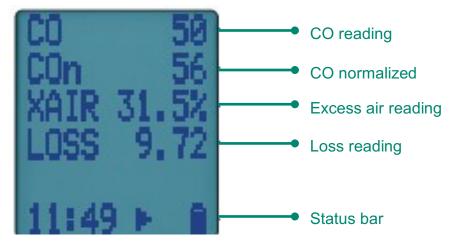
To edit a line, press \clubsuit vuntil EDIT appears on the status bar. Press and hold \clubsuit to select EDIT.

Cursor flashes and line number appears in status bar. Use $\Leftarrow \mathbf{\nabla}$ to select option to appear on line then press \blacklozenge to enter option.

O2/EFF SCREEN



CO/NO SCREEN

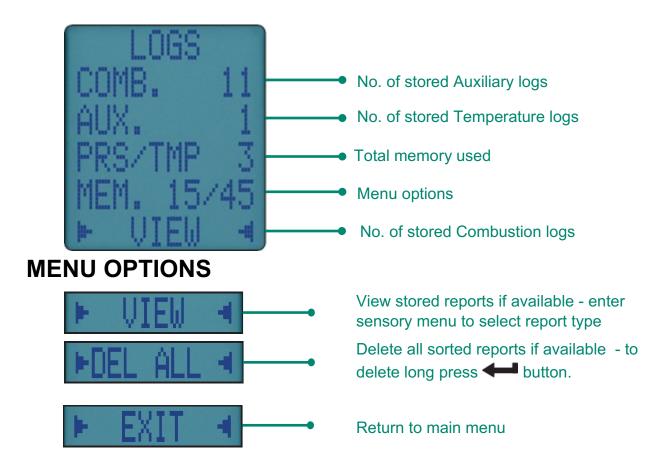


STORED MEMEORY REPORTS

Your KANE958 utilises a shared memory system which means stored logs are not limited by type.

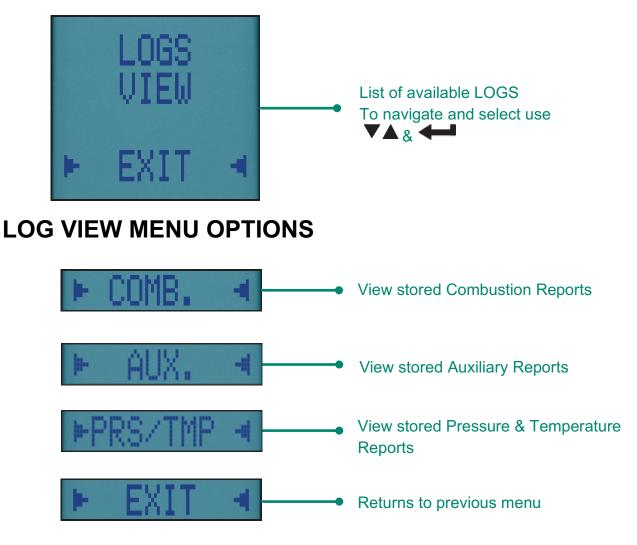
An icon displays when your Analyzer has stored data.

To view current memory rotate dial to MENU then select LOGS to display.



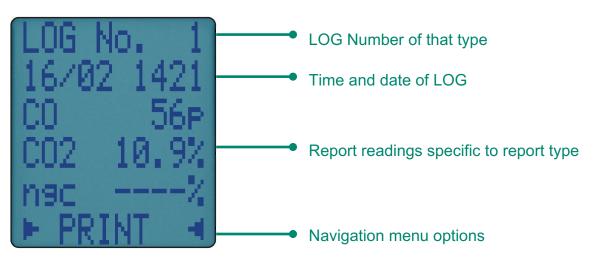
VIEWING STORED REPORTS

To view your reports, select VIEW option from LOGS Menu:

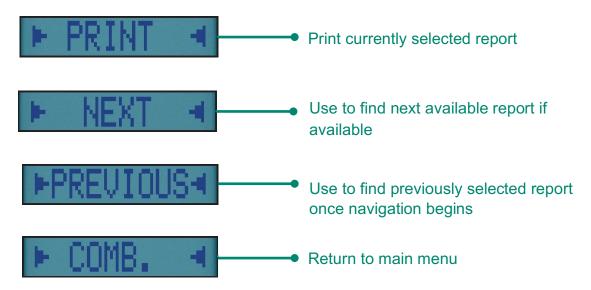


FINDING STORED REPORTS

Once you select your report type the first stored log is displayed:



REPORT MENU OPTIONS



Note: ROOM CO and tightness are accessed via TEST position. Rotate dial to TEST to find ROOM CO and TIGHTNESS Tests.

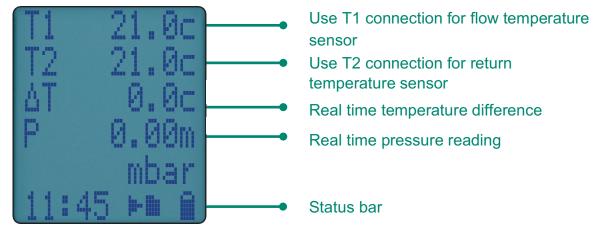
PRESSURE & TEMPERATURE TESTING

Never take a pressure reading without knowing the maximum pressure present. Your Analyzer pressure transducer is rated at 160 mbar with a maximum over range of 400 mbar.

Rotate dial to Prs/Temp and use the black connectors & manometer hose to connect to P1 for single pressure or P1 & P2 for different pressure.



TEMPERATURE & PRESSURE DISPLAY



VIEWING & PRINTING

Press subtraction to send full Pressure & Temperature reports to your optional KANE-IRP3 printer or wirelessly to a KANE APP.

Press and hold 🐨 button for 2 seconds to log a pressure and temperature report - See PRINTING to print stored reports.

PRESSURE MEASUREMENT GOOD PRACTICE

Before using your KANE958 to measure an appliance gas/air ratio valve, read appliance manufacturer instructions thoroughly. If in doubt, contact appliance manufacturer. After adjusting a gas/air ratio valve CO, CO2 & CO/CO2 ratio readings must be within appliance manufacturer specified limits.

LARGE BORE TUBING ISSUES

If using large bore tubing when performing pressure tests:





Failure to do so may not produce a gas tight seal.



PRINTING

Press and release $\widehat{\bullet}$ to send test results to your optional KANE IRP-3 printer or wirelessly to KANE APP. You can stop printing by pressing button again.

KANE INFRARED PRINTER

To use your printer, switch on and place the printer infrared receiver in line with the emitter on top of your Analyzer - allow a 15cm gap between <a>This Analyzer and printer.

PRINTOUTS

Auxiliary

KANE	
KANE958	
5400182 2.01	10.00
2600165 5101	1002
NAME	
NUMBER	
SERIAL NO.	123456789
DATE	08/07/21
TIME	14:51:11
CAL DUE	29/06/22
ADXILIARY	
FUEL	NAT GAS
CD(n)	ppm 02++
NO(n)	ppm 02++
NOx	ppm 0
02	% 20.9
1.055	S
CUSTOMER	
APPLIANCE	
	2000 - Contra 10
addresses.	
REFERENCE	

Combustion

KANESSE		
A PROPERTY OF A PROPERTY OF		
5M00182 2.0	0.803	
and an other states of the sta		
NATE		
AUM/DER.		
ACCOUNTS AND		11.1.1.1.1.1.1.1
SERIAL NO.	14.24	156789
DATE:	0.6	407/21
TIME		51.59
		and an
CAL DUE	28	106.122
-COMBUSTION		
FUEL	10	CE GRS-
62. REF	5	3.4
NOX REF		5.0
C0/(C04)		0.0000
DIFIC		
BAIR	1.1	0.2 ++
PRS	abar	0.01
71	- 10	
72	24	
Ta .	-76	24.35
MUTT	10	
		03++
LAMUDA		
L055		
91		6.00
P1 002	8	6,00
P1 C02 C0		0.00 00.0
P1 002	8	6,00
P1 C02 C0 B0	5 ppn 8	0.00 0.00 0 0
P1 C02 C0 NO3 NO3	10m 10m 10m	0,00 00,0 0 0 0
P1 003 00 NO NO 80 02	100 m 100 m 100 m 100 m	0.00 0.00 0 0 20.9
P1 C02 C0 NO3 NO3	10m 10m 10m	0,00 00,0 0 0 0
P1 003 00 NO NO 80 02	100 m 100 m 100 m 100 m	0.00 0.00 0 0 20.9
P1 003 00 NO NO 80 02	100 m 100 m 100 m 100 m	0.00 0.00 0 0 20.5 0
P1 C00 R0 R0 R0 R0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0	100 m 100 m 100 m 100 m	0.00 0.00 0 0 20.5 0
P1 003 00 NO NO 80 02	100 m 100 m 100 m 100 m	0.00 0.00 0 0 20.5 0
P1 C00 R0 R0 R0 R0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0 S0	100 m 100 m 100 m 100 m	0.00 0.00 0 0 20.5 0
P1 C002 C0 NOX C2 S02 S02 CUSTOMER	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1 C00 R0 R0 R0x 62 S02 CUSTONER	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1 C002 C0 NOX C2 S02 S02 CUSTOMER	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1 C00 R0 R0 R0x 62 S02 CUSTONER	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1 C0 C0 NOX C2 S0 S0 CUSTONER	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1. C0. KO KO KO KO KO KO KO KO KO KO	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1 C0 C0 NOX C2 S0 S0 CUSTONER	100 m 100 m 100 m 100 m	6,00 0,00 0 20.5 0
P1. C0. KO KO KO KO KO KO KO KO KO KO	100 m 100 m 100 m 100 m	0.00 0.00 0 20.5 0
P1. C0. KO KO KO KO KO KO KO KO KO KO	100 m 100 m 100 m 100 m	6,00 0,00 0 20.5 0
P1 C002 C0 B0 R0x G2 S02 S02 S02 S02 APPLDARCE	100 m 100 m 100 m 100 m	6.00 0.00 0 20.9 0 20.9 0
P1 C002 C00 NOX 02 502 CUESTONER CUESTONER	N N DO N DO N DO N	6.00 0.00 0 30.9 5
P1 C002 C0 B0 R0x G2 S02 S02 S02 S02 APPLDARCE	N N DO N DO N DO N	6.00 0.00 0 20.9 0 20.9 0
P1 C002 C0 NOX G2 S022 CUSSTONER APPLEARCE	N N DO N DO N DO N	6.00 0.00 0 30.9 5
P1 C002 C00 NOX 02 502 CUESTONER CUESTONER	N N DO N DO N DO N	6.00 0.00 0 30.9 5
P1 C02 E0 MOX 62 502 CUSTOMER APPLEARCE	N N DO N DO N DO N	6.00 0.00 0 30.9 5
P1 C002 C0 B0 MOX G2 S202 CUSSTONER APPLIANCE	N N DO N DO N DO N	6.00 0.00 0 20.5 0
P1 C002 C0 B0 MOX G2 S202 CUESTONER APPPLIANCE	N N DO N DO N DO N	6.00 0.00 0 20.5 0
P1 C002 C0 B0 MOX G2 S202 CUSSTONER APPLIANCE	N N DO N DO N DO N	6.00 0.00 0 20.5 0
P1 C002 C0 B0 MOX G2 S202 CUESTONER APPPLIANCE	N N DO N DO N DO N	6.00 0.00 0 20.5 0

Pressure/Temp

KANE KANE958 SW00182 2.01 NAME MUNIER	.RC3
INVERSE N	
	· · · · · · · · · · · · ·
SERIAL NO.	123456789
1000 C	
DATE	08/07/21
TINE	14:51:28
CAL DUE	29/06/22

PRS/TMP	

T3	°C
72	*C
NETT	*C
PRS	mbar 0.01
CUSTOMER	
	4.0
A 1	+ -

APPLIANCE	

REFERENCE	

	900 000 000 00 1 .5

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KANE **CONT**LINK WIRELESS MEASUREMENT AND DATA TRANSFER You can wirelessly connect optional KANE LINK devices to your Analyzer.

Rotate dial to KANE LINK on your Analyzer to manage how your Analyzer communicates with wireless devices.

To wirelessly transfer data to a connected smart device running our KANE APPS, select APP using

WPCP2 WIRELESS PIPE CLAMP

To add select it then enter its serial number using \blacktriangle & \blacklozenge buttons.

Enter its serial number using \blacktriangle & \checkmark buttons. Each clamp serial number must be 10 digits long.

If longer use the last 10 digits, e.g, in this example only enter last 10 digits: 2105094301



DTHA2 ANEMOMETER

To add a DTHA2 anemometer select DTHA2 using \blacktriangle & **----** buttons.

Enter its serial number using \blacktriangle & **for each** buttons. 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:2AKE4D	THA2	CE	X
Made in China	S/N:20	001228	

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

SPECIFICATIONS

PARAMETER	RANGE	RESOLUTION	ACCURACY	
Temperature Measurement				
Flue Temperature Inlet temperature External sensor	0 - 600°C	0.1°C	±0.5°C	
Inlet Temperature Internal sensor	0 - 600°C	0.1°C	±0.5°C	
(Internal Sensor) Inlet temperature	0.50°C	0.1°C	±1°C	
Flue Gas Measurement				
Oxygen	0 - 25%	0.1%	±0.3% Volume	
Carbon Monoxide H2 Compensated	0 - 10,000ppm	1ppm	±5ppm < 100ppm ±20ppm < 400ppm ±5% > 400ppm - 2000ppm ±10% > 2000ppm -10,000ppm	
Nitric Oxide (optional)	0 - 5000ppm	1ppm	±5ppm < 100ppm 5% > 100ppm	
Nitrogen Dioxide (optional)	0 - 1000ppm	1ppm	±5ppm < 100ppm 5% > 100ppm	
Sulphur Dioxide (optional)	0 - 5000ppm	1ppm	±5ppm < 100ppm ±5% > 100ppm	
Pressure Measurement				
Pressure (Differential)	±160mbar	0.1mbar	±0.5% FSD	
Calculations				
CO/CO2 Ratio	0 - 0.9999	0.0001	±5% of reading	
Efficiency (Net or Gross)	0 - 99.9%	0.1%	±1% of reding	
Efficiency High (C)	0 -119.9%	0.1%	±1% of reading	
Excess Air	0 -119.9%	0.1%	±0.2% of reading	
Pre-programmed Fuels				
UK, USA & France European	Natural Gas, LPG, Light Oil, Digester Gas, Coke, Wood, Heavy Oil, Coal			
Battery Life	>8 hours (continuous with pump on)			
Certification	KANE958 is independently tested and certified to EN50379, Parts 1-2 in accordance to 1st German Federal Emission Control Ordinance (BimschV)			

SPECIFICATIONS CONTINUED

Operating Conditions			
Temperatures	0 to 113°F (0 to 45°C)		
Humidity	15 to 90% RH, (non-condensing)		
Power Supply	Rechargeable batteries, USB Charging		
Physical Characteristics			
Weight	Approx. 2.5lb (1.34kg)		
Dimensions	8.5in x 4.1in x 1.7in (216mm x 105mm x 45mm)		

THIS PRODUCT CONFIRMS WITH THE FOLLOWING



The KANE958 is independently tested and certified to EN 50379, Parts 1 & 3.

Warranty

The KANE958 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

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



Complete Care for Your Combustion Analyzer.









When you:

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

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 KANE958 analyzer 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:

48-Hour Service: All qualifying KANE958 analyzers received for recertification through UEi Service+ are returned on the second 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 shipp ing label.

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.

Canadian Customers

All Canadian customers needing annual recertification should visit https://www.kanetest.ca.