

**KIGAZ 100
COMBUSTION GAS
ANALYSER**



Protection of sensors by pump stopping



Supplied with magnetic protective cover

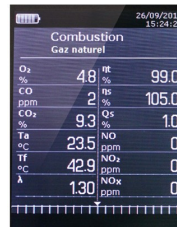
KEY POINTS

- Protection of sensors by pump stopping
- Interchangeable CO and COH₂ sensors
- **2 Go** memory (100 000 measurements)
- **Step-by-step** procedure
- **Self-test** menu

MENUS / ACTIVE VIEWS



Analyser menus



Example of analysis

INSTRUMENT FEATURES

GAS	Ambient CO max	CO flue gas	Interchangeable sensors : O ₂ and CO compensated H ₂	Excess air Losses	Efficiency > 100%
PRESSURE	Differential pressure measurement	Draft measurement			
TEMPERATURE	Ambient temperature	Flue gas temperature	Delta Temperature	DHW temperature	Dew point temperature
OTHERS FUNCTIONS	15 programmed combustibles ¹	Adding 5 combustibles by the user	Automatic measurements	Opacity index	External water trap

HOUSING

Dimensions

Instrument : 331 x 112 x 86 mm
Flue gas probe : 180 mm
Cable length : 2.50 m

Weight (battery included)

900 g

Display

Grey scale 3.5" display

Keypad

10 keys dome switch keypad

Material

Housing and probe : ABS
Probe cable : neoprene

Protection

IP40

PC interface

USB
Bluetooth[®] (optional)

Power supply

Li-Ion 3,6V 4400 mA battery

Battery life

10 h in continuous operating

Use and storage temperature

From -5 to +50°C and from -10 to +50°C

¹ **Combustibles** : Sahara/Fos-sur-Mer Natural Gas, Groningen Natural Gas, Russia/North Sea Natural Gas, Propane, LPG, Butane, Light Oil, Heavy Oil, Bituminous coal, Hard coal, Coke gas, Bio fuel 5%, Wood 20%, Wood-chip 21%, Pellet 8%

MEASURING RANGE

Parameter	Sensor	Measuring range	Resolution	Accuracy*
O ₂	Electro-chemical	from 0% to 21%	0.1% vol.	±0.2% vol.
CO (with H ₂ compensation)	Electro-chemical	from 0 to 8000 ppm	1 ppm	From 0 to 200 ppm : ±10 ppm From 201 to 2000 ppm : ±5% of the measured value From 2001 to 8000 ppm : ±10% of the measured value
Flue gas temperature	K thermocouple	from -100 to +1250°C	0.1°C	±1.1°C or ±0.4% of measured value
Ambient temperature	Internal NTC	From -20 to +120°C	0.1°C	±0.5°C
Ambient temperature	Pt100 (1/3 Din external probe)	From -50 to +250°C	0.1°C	±0.3% of the measured value ±0.25°C
Dew point temperature	Calculated**	From 0 to +99°Ctd	0.1°C	
DHW temperature	TcK (external probe)	From -200 to +1300 °C	0.1°C	±1.1°C or ±0.4% of measured value
Differential pressure Draft	Semiconductor	From -200 to +200 hPa	0.01 hPa	From -200.00 to -1.00 hPa : ±0.5% of the measured value +0.045 Pa From -1.00 to -0.40 hPa : ±5% of the measured value From -0.40 to 0.40 hPa : ±0.02 hPa From 0.40 to 1.00 hPa : ±5% of the measured value From 1.00 to 200.00 hPa : ±0.5% of the measured value + 0.045 hPa
Losses	Calculated**	From 0 to 100%	0.1%	
Excess air (λ)	Calculated**	From 1 to 9.99	0.01	
Lower efficiency (ηs)	Calculated**	From 0 to 100%	0.1 %	
Higher efficiency (ηt) (condensing)	Calculated**	From 0 to 120%	0.1%	
Opacity index	External instrument	From 0 to 9		

*All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

**Calculation is made based on the measured values by the analyzer.

SOFTWARE

Analysers are supplied with **LIGAZ software** allowing database creation (Customers, Boilers, inspections), downloading and printing inspections and analyser configuration.

SUPPLIED WITH

The analysers are supplied with the following items :

- Differential pressure kit including 2 x 1 m of silicone tube
- Transport bag
- 180 mm flue gas probe and its water trap
- LIGAZ software and its USB cable
- Mains adapter
- Calibration certificate
- Magnetic protective cover



Transport bag

REFERENCES

- **KIGAZ100** : combustion analyser with 2 sensors (O₂ and CO-H₂)

OPTIONAL¹

- **SCOT** : ambient CO probe
- **SCO2T** : ambient CO₂ probe
- **SPA 150SP** : ambient Pt100 probe
- **SKCT** : contact probe for pipes
- **SDFG** : gas leak detection probe (CH₄)
- **KEG** : gas network tightness kit
- **PMO** : opacity pump
- **Bluetooth® module** : data downloading and device configuration
- **SCI** : Measurement probe of ionisation current



Gas network tightness kit

¹Please see the technical datasheet of accessories for kigaz for further details

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EXPORT DEPARTMENT

Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29

e-mail : export@kimo.fr