Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Kimo Kigaz 150 Combustion Gas Analyzer

CE

KIGAZ 150
COMBUSTION GAS ANALYSER

Protection of sensors by pump stopping

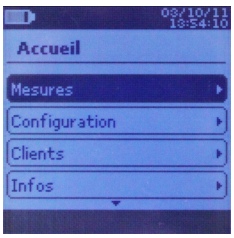
Interchangeable O_2 and CO-H_2 sensors

Supplied with magnetic protective cover

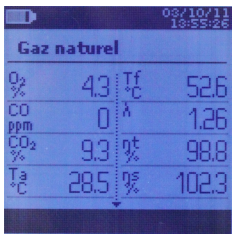
KEY POINTS

- **2 Go** memory (100 000 measurements)
- **Step-by-step** procedure (gas flow,...)
- **Autodiagnostic** menu
- External printer (optional)
- User management

MENUS / ACTIVE VIEW



Analyser menu



Example of analysis

INSTRUMENT FEATURES

GAS	Ambient CO max	Flue gas CO	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

[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%*

HOUSING

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

Weight (battery included)
680 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)
Infrared (printer)

Power supply
Li-Ion 3,6V 4400 mA battery

Battery life
10 h in continuous operation

Use and storage temperature
From -5 to +50°C and from -10 to +50°C

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

- **KIGAZ150 :** combustion analyser with 2 sensors (O_2 and CO-H_2)

OPTIONS

- **SCOT :** ambient CO probe
- **SCO2T :** ambient CO_2 probe
- **SPA 150SP :** ambient Pt100 probe
- **SKCT :** contact probe for pipes
- **SDFG :** gas leak detection probe (CH_4)
- **KEG :** gas network tightness kit
- **PMO :** opacity pump
- **Bluetooth® module :** data downloading and device configuration
- **SCI :** Measurement probe of ionisation current
- **KDIP :** External printer

External printer