

**KIGAZ 50  
COMBUSTION GAS ANALYSER**



O<sub>2</sub> and CO sensors



Autozero : 30 seconds

**KEY POINTS**

- Autozero : 30 seconds
- Autonomy : 10 h
- Backlight
- Automatic stop
- External printer (optional)



**INSTRUMENT FEATURES**

<b>GAS</b>	Ambient CO max	Flue gas CO	Sensors : O <sub>2</sub> and CO	Excess air Losses	Efficiency > 100%
<b>PRESSURE</b>	Differential pressure measurement	Draft measurement			
<b>TEMPERATURE</b>	Ambient temperature	Flue gas temperature	Delta Temperature		
<b>OTHERS FUNCTIONS</b>	9 programmed combustibles <sup>1</sup>	External water trap			

<sup>1</sup>Combustibles : Natural gas, Propane, Butane, Coke gas, Domestic fuel, Heavy fuel, Biofuel 5 %, Pellets 8 %, Wood 20%

**HOUSING**

**Dimensions**

Instrument : 240 x 110 x 80 mm  
Flue gas probe : 180 mm

**Weight (battery included)**

680 g

**Display**

Customized screen  
Active view dimension: 54 x 50 mm

**Keypad**

10 keys dome switch keypad

**Material**

Housing : ABS  
Probe cable : neoprene  
Probe : PA6.6 30 GF

**Communication**

Infrared (IrDA® technology) between the instrument and the printer

**Power supply**

Li-Ion 3.6V 5.2 Ah battery

**Battery life**

10 h in continuous operation

**Battery charging time**

10 h with charger and mini-USB cable

**Use and storage temperature**

From +5 to +50°C and from -20 to +50°C

## MEASURING RANGE

Parameter	Sensor	Measuring range	Resolution	Accuracy*	T <sub>90</sub> response time
O <sub>2</sub>	Electro-chemical	from 0% to 21%	0.1% vol.	±0.2% vol.	30 s
CO	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	30 s
CO <sub>2</sub>	Calculated**	from 0% to 99% vol.	0.1% vol.		
Flue gas temperature	K thermocouple	from -100 to +1250°C	0.1°C	±0.4%  measured value  or ±1.1°C	45 s
Ambient temperature	Internal NTC	From -20 to +120°C	0.1°C	±0.5°C	s
Differential pressure Draft	Semiconductor	From -20 000 to +20 000 Pa	1 Pa	From -20 000 to -751 Pa : ±(-0.5% of measured value +4.5 Pa) From 750 to -61 Pa : ±(-0.9% of measured value +1.5 Pa) From -60 to 60 Pa : ±2 Pa From 61 to 750 Pa : ±(0.9% of measured value +1.5 Pa) From 751 to 20 000 Pa : ±(0.5% of measured value + 4.5 Pa)	
Losses	Calculated**	From 0 to 100%	0.1%		
Excess air (λ)	Calculated**	From 1 to 9.99	0.01		
Lower efficiency (η <sub>s</sub> )	Calculated**	From 0 to 100%	0.1 %		
Higher efficiency (η <sub>t</sub> ) (condensing)	Calculated**	From 0 to 120%	0.1%		

\*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.

## SUPPLIED WITH

The analysers are supplied with the following items :

- Transport bag
- 180 mm flue gas probe and its water trap
- USB cable
- Mains adapter
- Adjustment certificate



Transport bag

## OPTIONS

- SKCLD 150 : thermocouple probe
- KPD-15 : differential pressure kit
- KEG : gas network tightness kit
- PMO : opacity pump
- CPAK : magnetic protective cover
- KDIP : External printer

External printer



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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](mailto:export@kimo.fr)