

Technical Data Sheet

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

Combustion gas analyser KIGAZ 110

KEY POINTS



O, long life sensor



CO-H₃ interchangeable sensor



Sensor protection by pump stopping

- 2 Go memory (100 000 measurements)
- Step by step procedure menu (gas flow, inspections)
- · Self-test menu
- · Built-in printer



HOUSING

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

Weight (battery and protective cover included)

1035 g

Display

LCD 120 x 160 pixels, 50 x 67 mm

Keypad

10-key dome switch

keypad

Material

Housing: ABS Contact duct: PA 6.6 reinforced 10 %

glass fiber

Probe cable: neoprene

Protection

IP40

Communication

Bluetooth® (option)

Power supply

Li-lon battery 3.6 V 4400 mA Voltage of power supply: 100-250 VAC, 50/60 Hz

Battery life

10 h in continuous operating

Battery charging time

10 h

Operating and storage temperature

From +5 to +50 °C and from -20 to +50 °C Altitude: from 0 to 2000 m

INSTRUMENT FEATURES

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

^{*}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*	T ₉₀ response time
0,	Electro-chemical	From 0 % to 21 %	0.1 % vol.	±0.2 % vol.	30 s
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 measured value From 2001 to 8000 ppm: ±10% of measured value	30 s
Flue gas temperature	K thermocouple	From -100 to +1250 °C	0.1 °C	±0.4% of measured value or ±1.1 °C	45 s
Ambient temperature	Internal NTC	From -20 to +120 °C	0.1 °C	±0.5 °C	-
Ambient temperature	Pt100 (external probe 1/3 DIN)	From -50 to +250 °C	0.1 °C	±0.3% of measured value or ±0.25 °C	30 s
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	±0.4% of measured value or ±1.1 °C	-
Differential pressure		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	
Draft	Semiconductor	From -10 to +10 Pa From -1000 to +1000 Pa	0.1 Pa 1 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 (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 analyser.

SOFTWARE



The analysers are supplied with the LIGAZ-2 software

It allows database creation (customers, boilers, inspections), inspections downloading and printing, synchronization instrument/PC and analyser configuration.





SUPPLIED WITH

The analysers are supplied with the following items:

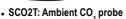
- · Transport bag
- 180 mm flue gas probe and its water trap
- · LIGAZ-2 software and its USB cable
- Power supply adapter and Li-ion battery
- Calibration certificate
- · Protective cover with magnets







ACCESSORIES*





. SDFG: Gas leak detection probe (CH₄)



• PMO: Opacity pump

Supplied with 50 filters and a reference table



Data download and instrument configuration by PC.

Connection to the KIGAZ MOBILE application:

- Graphic visualization
- Saving
- Exportation under CSV, XML, PDF format
- Reports sending by e-mail

*See the technical data sheet of accessories for KIGAZ for more details.

Distributed by:

• SCOT: Ambient CO probe





· SKCT: pipeline contact probe

· SCI: Ionisation current measurement probe





· KEG: gas network tightness kit

KIGAZ MOBILE application

for smartphones and tablets





www.kimo.fr



EXPORT DEPARTMENT

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