

Technical Data Sheet

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



Application

HOUSING

Dimensions Instrument: 240 x 100 x 80 mm Flue gas probe: 180 mm

Weight (battery and protective cover included) 660 g

Display Graphic screen Active view dimensions: 54 x 50 mm Keypad 10 keys Dome switch keypad

Material Housing: ABS Probe cable: neoprene Probe: PA 6.6 reinforced 10 % glass fiber

Protection IP40

PC communication Bluetooth[®] (optional) USB Infra-red IRDA[®] (printer)

Power supply Li-Ion battery 3.6 V 4400 mA **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

FEATURES OF THE INSTRUMENT

GAS	Ambient max CO	CO flue gas	Interchangeable sensors: $\rm O_2$ and CO compensated $\rm H_2$	Excess air Losses	Efficiency > 100%
PRESSURE	Draft measurement	Differential pressure measurement			
TEMPERATURE	Ambient temperature	Flue gas temperature	Delta Temperature	DHW temperature	Dew-point measurement
OTHER FUNCTIONS	15 programmed combustibles ¹	Adding 5 combustibles by the user	Opacity index	External water trap	

1Combustibles: 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 ₂	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	$\pm 0.4\%$ of measured value or $\pm 1.1~^\circ\text{C}$	45 s
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 measured value ±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 ± 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 (ŋs)	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, synchronisation instrument/PC and analyser configuration.

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SUPPLIED WITH

The analysers are supplied with the following items:

www.kimo.fr

- Transport bag
- 180 mm flue gas probe and its water trap
- LIGAZ-2 software and its USB cable

· Protective cover with magnets

- Power supply adapter and Li-ion battery
- Calibration certificate

OPTIONS

- SCOT: ambient CO probe
- SPA 150SP: Pt100 ambient probe SKCL 150: thermocouple probe
- SDEG: Gas leak detection prob
- SDFG: Gas leak detection probe (CH₄)
- PMO: Opacity pump
- Supplied with 50 filters and a reference table
- KDIP-2: Infra-red IRDA[®] printer



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

*See the technical datasheet of accessories for KIGAZ for more 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 SCO2T: ambient CO, probe

SCI: Ionisation current

M 🖏

KEG: Gas network tightness kit

KIGAZ MOBILE Application

For smartphones and tablets

App Store

Available on the

Google play

on the

measurement probe

