

Technical Data Sheet

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

Combustion gas analyser KIGAZ 110

KEY POINTS



Long-life O, sensor



Interchangeable CO-H₂ 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

CONFORMITY AND STANDARDS

Conformity

The analyser is in compliance with the following european directives:

- 2004/108/EC
- 2006/95/EC Low voltage
- 2011/65/EU RoHS II
- 2012/19/EU WEEE

Standards

The analyser is in compliance with the EN 50379-1 and EN 50379-2 standards.



KIGAZ MOBILE Application

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

Plasturgy of detachable probe: PA 6.6 reinforced

10% glass fiber Probe cable: neoprene Protection

IP40

Communication

USB Bluetooth® (option)

Power supply

Li-lon battery 6 V 1.5 A Voltage of power supply:

100-240 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 max CO	Flue gas CO	Interchangeable sensors: long-life	Excess air	Efficiency > 100%
			O ₂ and CO compensated H ₂	Losses	
PRESSURE	Draft measurement	Differential pressure measurement			
TEMPERATURE	Ambient	Flue gas temperature	Delta Temperature	DHW temperature	Dew point temperature
	temperature	ao gas temporataro	2014 Tomporataro	2 tomporataro	2011 point tomporaturo
OTHER FUNCTIONS	15 programmed	Adding 5 combustibles	Opacity index	External water	

MEASURING RANGE

Parameter	Sensor	Measuring range	Resolution	Accuracy*	T ₉₀ response time
Long-life O 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	±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 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	
Draft	Semiconductor	From -10 to +10 Pa From -1000 to +1000 Pa	0.1 Pa 1 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, synchronisation 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





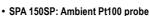


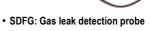
ACCESSORIES*

SCOT: Ambient CO probe



• SCO2T: Ambient CO₂ probe





(CH₄)



• PMO: Opacity pump Supplied with 50 filters and

a reference table

Bluetooth® module



KIGAZ MOBILE application for smartphones and tablets

· KEG: gas network tightness kit

· SKCT: pipeline contact probe

SCI: Ionisation current measurement probe

Allows connection to the KIGAZ MOBILE

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

Download on the App Store



*See the technical datasheet of accessories for KIGAZ for more details.

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