KIMO INSTRUMENTS

Technical Data Sheet

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

KIGAZ 50
COMBUSTION GAS ANALYSER



O_2 and CO sensors

Auto-zero: 30 seconds

KEY POINTS

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



INSTRUMENT FEATURES

GAS	Ambient CO max	Flue gas CO	Sensors: O_2 and CO	Excess air Losses	Efficiency > 100%
PRESSURE	Differential pressure measurement	Draft measurement			
TEMPERATURE	Ambient temperature	Flue gas temperature	Delta Temperature		
OTHERS FUNCTIONS	9 programmed combustibles [1]	External water trap			

[1] ***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: PA 6.6 reinforced 30% glass fibre

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
12 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_{90} response time
O_2	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 measured value From 2001 to 8000 ppm: ±10 % of measured value	30 s
CO_2	Calculated**	From 0 % to 99 % vol.	0.1 % vol.		
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	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 (ηs)	Calculated**	From 0 to 100 %	0.1 %		
Higher efficiency (ηt) (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 analyser.*

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

- **SKCL 150:** Thermocouple probe



- **PMO:** Opacity pump



- **KDIP-2:** External IrDA® infra-red printer



- **CPK-15:** Magnetic protective cover



- **KP-15:** Differential pressure kit
- **KEG:** Gas network tightness kit



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