KIMO INSTRUMENTS

Technical Data Sheet

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

KIGAZ 50
COMBUSTION GAS ANALYSER

O_2 and CO sensors

Autozero : 30 seconds

KEY POINTS

- Autozero : 30 seconds
- Autonomy : 10 h
- Backlight
- Automatic stop
- External 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 : 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_{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 the measured value From 2001 to 8000 ppm : ±10% of the 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% |measured value| or ±1.1°C	45 s
Ambient temperature	Internal NTC	From -20 to +120°C	0.1°C	±0.5°C	
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 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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