



HVAC Measuring Instruments

Export general catalogue 2015



Pressure / Temperature / Humidity / Air velocity / Airflow / Air quality / Gas analysis / Sound level



European Manufacturer
www.kimo.fr

Combustion

Gas Analyser



New 2015
KIGAZ 50
see page 5



SOLUTION

FOR ANY TYPE OF BOILER UP TO 400 KW

We have developed a new range of combustion gas analysers, which fulfil all the needs of heating professionals.

Our analysers are scalable and offer many solutions for any type of boiler up to 400 kW, to control pollutant emissions.



Operating software

LIGAZ

FREE Software

Record your customers, boilers and measurements records.
Download your datasets and the programme will automatically fill in the measurement report.

LOGAZ

Optional software

Easy reading of measurement reports. Customize, print and export your files. Organize your agenda, maintenance contracts, clients follow-up. Display and recording of measurements in real-time.

Class 300 & 200

Up to **4** interchangeable sensors

KIGAZ 300

O_2 / $CO-H_2$ / CH_4 / NO / NO_2 / SO_2 sensors in standard or option



Integrated Water trap

Any type of boiler



Vocal Help

Autozero in the flue



CO Dilution

Customized procedures
CO dilution
Simplified water discharge
Optional: probe up to 1000°C

O_2 , CO (H_2 compensation), Flue gas temperature, Ambient temperature, Dew point temperature, Draft, Differential pressure, Losses, Flue gas velocity, Excess air, Efficiency (condensation), Dilution, CH_4



Up to **3** interchangeable sensors

KIGAZ 200

Interchangeable O_2 / $CO-H_2$ / NO / CH_4 sensors



Autozero in the flue

Integrated printer



Reports printing

Interchangeable probe
Customized procedure
Up to 12 measurements displayed simultaneously

O_2 & CO (H_2 compensation)
Flue gas temperature & velocity
Ambient temperature
Differential pressure
Losses, Excess air, Efficiency (condensation)





KIGAZ 100

2
interchangeable
sensors

- $O_2 / CO-H_2$
sensors




Protection of sensors by **pump stopping**
- Integrated
printer




Protective cover
with magnet

Step by step procedure
Self-test menu

O_2 flue gas, CO flue gas, CO_2 flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure & Pressure draft
Losses & Excess air

KIGAZ 150

2
interchangeable
sensors

- $O_2 / CO-H_2$
sensors




Protection of sensors by **pump stopping with treshold**
- External
printer (option)




Protective cover
with magnet



Step by step procedure
Self-test menu

O_2 flue gas, CO flue gas, CO_2 flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure & Pressure draft
Losses & Excess air / Efficiency up to 120%

*External printer
(option for KIGAZ 50 and 150)*



*Protective cover with magnet
(supplied with KIGAZ 150, and
option for KIGAZ 50)*



NEW

KIGAZ 50

2 sensors

O₂ flue gas, CO flue gas,
CO₂ flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure
Pressure draft
Losses & Excess air



**O₂ / CO
Sensors**



**External
printer (option)**



**Autozero
30 seconds**

Additional measurements



Gas detection

FG 110

Gas leak detector
Detection of gas such as methane (CH₄), LPG (isopropanol and isobutane) and other combustible gases (hydrocarbons)



Gas network

MP 130

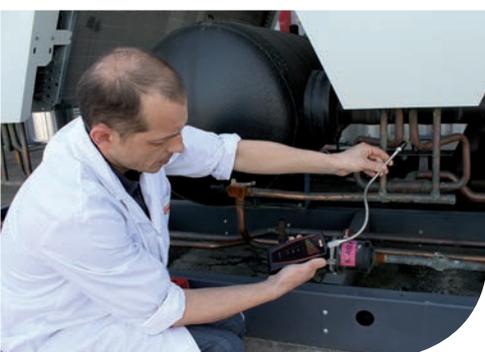
Gas tightness special manometer for gas network
±500 mbar



Ambient CO

CO 50/110

CO and CO max measurement
From 0 to 500 ppm
From -20 to +80°C



Refrigerant gases

DF 110

Detector of refrigerant gases and hydrogen (HFC, HCFC, Nidron 5...) Visual and audible alarm
Manual and automatic self-calibration

NEW RANGE

HVAC

Portable instruments

New features

- Designed for the field
- Ease of use
- Nonstop measurements
- Scalable instruments
- Interchangeable probes



Class 310
multifunction

IP54 ABS housing
Integrated protection



Class 210
multi-probes



Class 50 & 110
monofunction

The of class 210 & 310



Designed for the field

An overmoulding made of elastomere protects the instrument, guarantees shockproofing



Nonstop measurements

This new generation of instruments has an interchangeable and rechargeable Li-ion battery.



Expandable memory (AMI 310)

Internal memory of 1,000 datasets of 20,000 measuring points. Built-in location for a micro-SD memory card



Interchangeable probes

The new probes utilise a mini-Din connecting cable which is compatible with all probes



Modules

1. Climatic conditions
2. Thermocouple (4 channels)
3. Pressure
4. U Coefficient



Air Quality

CO 50/110 - AQ 110 - HQ 210

CO : 0 to 500 ppm
 CO₂ : 0 to 5,000 ppm
 -200 to +600°C
 3 to 98 %RH
 0 to 5 m/s



Manometers

MP 50/51/55/110/111
 112/115/120/130/210

Differential pressure
 From ±500 Pa to ±2,000 mbar
 Air velocity with Pitot tube
 From 2 to 100 m/s
 Atmospheric pressure
 From 800 to 1,100 hPa



Anemometers

LV 50/110/111/117/130
 VT 50/110/115/210

Hotwire and telescopic hotwire
 0.15 to 30 m/s
 Vane probes : Ø14, 70, 100 mm
 0.3 to 35 m/s
 Airflow: 0 to 99,999 m³/h



Hygrometers

HD 50/110 - HQ 210

3 to 98 %RH
-200 to +600°C
-50 to +80°C_{td}



Tachometers

CT 50/110

Optical : 60 to 60,000 rpm
Contact : 30 to 20,000 rpm



Accessories



1. Software
2. Protective housing
3. ABS transport case
4. Saturated salt solutions
5. Measuring cones
6. Debimo blades
7. Gas network pack
8. Pitot tubes



AMI

Multifonction

AMI 310 is a multi-probe instrument which can measure up to 6 parameters simultaneously.



Wireless
Probes



Data processing
Software



Interchangeable
Probes & Modules



Micro-SD
Card



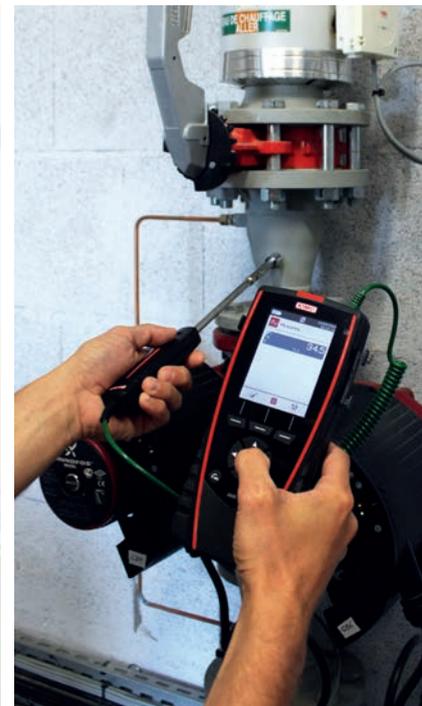
Graphical
Display



Colour
Wide screen

Measuring ranges

- ± 500 Pa / $\pm 2,500$ Pa / $\pm 10,000$ Pa
- ± 500 mbar / $\pm 2,000$ mbar
- Thermocouple: -200 to $+1760^\circ\text{C}$
- Pt 100: -200 to $+600^\circ\text{C}$
- Humidity: 3 to 98 %RH
- CO: 0 to 500 ppm
- CO₂: 0 to 5,000 ppm
- Air velocity: -5 to 35 m/s
- Airflow: 0 to 99,999 m³/h
- Gas leak detection: 0 to 10,000 ppm
- Tachometry: 30 to 60,000 rpm



NEW

Portable Thermometers



Class 210 - TM 210

- -200 to +1,760°C
- 2 Pt 100 channels
- 4 thermocouple inputs
- 1000 datasets



Thermocouple module
4 channels



Class 50

TK 50/52 - TR 50/52

1 or 2 channels
for Pt 100 probes,
Thermocouple K, J, T, S
-200 to +1,760°C



Class 100

TK 110/112 - TR 110/112

Configurable alarms
Hold/Min/Max functions

1 or 2 channels for Pt 100 probes,
Thermocouple K, J, T, S
-200 to +1,760°C



INFRARED

Thermometers

KIRAY 100/200/300

Diagnose, inspect and check any
temperature, with the advantage
of using "no-contact" technology.
-50 to +1,850°C



DBM 610

Airflow / Air velocity



**Interchangeable
Hoods**



**Pa Micromanometer
Function**



A solution for airflow commissioning and balancing

DBM 610 can be used on any supply or exhaust, air distributors: rectilinear, helical and toric.

- Quick and simple hood changes
- Measuring range from 40 to 3,500 m³/h or 24 to 2060 cfm
- Simultaneous display of airflow and temperature
- Automatic airflow direction (extraction or air blast)
- Supplied with 610x610 mm hood
- 4 others hoods are available as options

720 x 720 mm
720 x 1,320 mm
420 x 1,520 mm
1,020 x 1,020 mm



Micromanometer function with Pitot tube



Remote velocity grid

NEW

Designed for air velocity measurements on any type of large ceiling vent or diffuser.

The grid is similar to the DBM610 grid. It calculates the average air velocity from 24 points to guarantee a reliable measurement. The grid is attached to a telescopic (maximum length is 2.05 m) and articulated pole (0 to 90°). Struts of 3 different lengths allow for correct positioning of the grid on the ceiling surface.

A backpack allows easy carriage of the grid and its accessories (telescopic pole, articulation, 2 x 2.5m of silicone tube, positioning strut and electronic housing).



Sound Level Meters



DB 100/200/300

Class 1 and 2 sound level meters as per international standards

20 to 137 dB

Frequency weighting A, C, Z*

Real time analyser by octave bands: 31.5 Hz to 8 kHz (class 2),
16 Hz to 16 kHz (class 1, DB 300 only)



Data processing software

In option for DB 200 and 300, LDB 300 software is specific for industry and work environment.

It allows for elaborated data processing and reports printing as per NF S31-010 standard.

Environmental Diagnosis

Solarimeters

CR 110 - SL 100/200

Portable or fixed installation
To control photovoltaic
and thermal installations
1 to 1,500 W/m²



Noise dosimeters

DS 200/300

For the measurement of noise exposure
at workstation

Detection and peak counting:
135 dB - 137 dB - 140 dB
Daily sound exposure level: Lex,d
Data processing software



Applicative standard
ISO 9612 : 2009



2003/10/CE
Directive



Luxmeters

LX 50/100/200

Light measurement

0.1 to 200,000 lux
0.01 to 18,585 fc
Data processing software



Pin moisture meter

HM 50

Compatible with 4 types of materials:
wood, plaster, brick and concrete

Supplied with 2 extra pin sets and a
protective cap



As per following standards
EN 12464-1 / EN 12464-2
EN 12193

Sensors

Transmitters



Configurable
outputs



RCR
relay



IP65
Waterproof
ABS housing



1 or 2 analogue
outputs

Industry, service, food industry

- For air processing
- Dip switch, keypad and software configuration
- Power supply: 24 V / 115 V / 230 V
- Outputs: 4-20 mA/0-20 mA or 0-10 V/0-5 V



Class 210



Class 110



INNOVATION

Simplified calibration

Electronic board and measuring element connected to the front side of the sensor, which allows to configure and calibrate your device without causing any damage.

Monostats

PST/HST/TST/COST/CO2ST

1 RCR relay

From ± 100 Pa to $\pm 2,000$ mbar
 From 5 to 95 %RH
 From -100 to +400°C
 CO: 0 to 500 ppm
 CO₂: 0 to 5,000 ppm



Class 110 - Monofunction

CP / HM / TH / TM / CTV / CR / LR / CO

1 or 2 analogue outputs

From ± 100 Pa to $\pm 2,000$ mbar
 Atmospheric pressure: 800 to 1,100 hPa
 From 5 to 95 %RH
 From -100 to +400°C

From 0 to 30 m/s
 From 0 to 1,500 W/m²
 From 0 to 10,000 lux
 CO: 0 to 500 ppm
 CO₂: 0 to 5,000 ppm



NEW

CO/CO₂ sensors

KIMO designed CO/CO₂ transmitters in order to meet with requirements of new norms and decrees on air quality.



Multifunction

Class 210

CP / TH / TM / CTV / COT

2 analogue outputs

Calculation functions
 Automatic autozero

From ± 100 Pa to $\pm 2,000$ mbar
 From 5 to 95 %RH
 From -100 to +400°C
 From 0 to 30 m/s
 CO: 0 to 500 ppm
 CO₂: 0 to 5,000 ppm



SQR/3 option

Connected to DEBIMO measuring blades, CP 210 can calculate air velocity and airflow in a duct, from differential pressure.

Class 310 Multifunction

Pressure / Humidity / Temperature / Air Velocity / Airflow / CO / CO₂
NEW GENERATION

Multifunction sensor

C 310

- Display and measure 4 parameters simultaneously
- 3 Inputs for interchangeable probes
- RS485 Modbus
- 4 RCR relays
- Up to 4 analogue outputs
- 4 visual and audible alarms



Ethernet
Communication



Multifunction sensor

CA 310



Ethernet
Communication

- Large display
- 2 Inputs for interchangeable probes
- RS485 Modbus
- 3 RCR relays and 3 analogue outputs



Interchangeable Probes

C 310 / CPE 310-S / CA 310

- Pressure..... From 0-10 Pa to 10,000 Pa
- Humidity 0 to 100 %RH
- Temperature -50 to +180°C
- Air Velocity..... 0 to 35 m/s
- Airflow..... 0 to 99,999 m³/h
- CO 0 to 500 ppm
- CO₂ 0 to 5,000 ppm
- Current/Voltage..... 4-20 mA / 0-10 V

Easy Clip



SPECIAL FOR CLEAN ROOM

Flush-mount

Multifunction pressure sensor

CPE 310-S

- 1 Input for interchangeable probes
- Front calibration
- 3 analogue outputs
- RS485 Modbus
- Range : ± 100 Pa
- 3 visual and audible alarms



Front connection for configuration and calibration



Multi-channel Display

Flush-mount ATE 300

Display 3 parameters alternatively.
RS485 Modbus

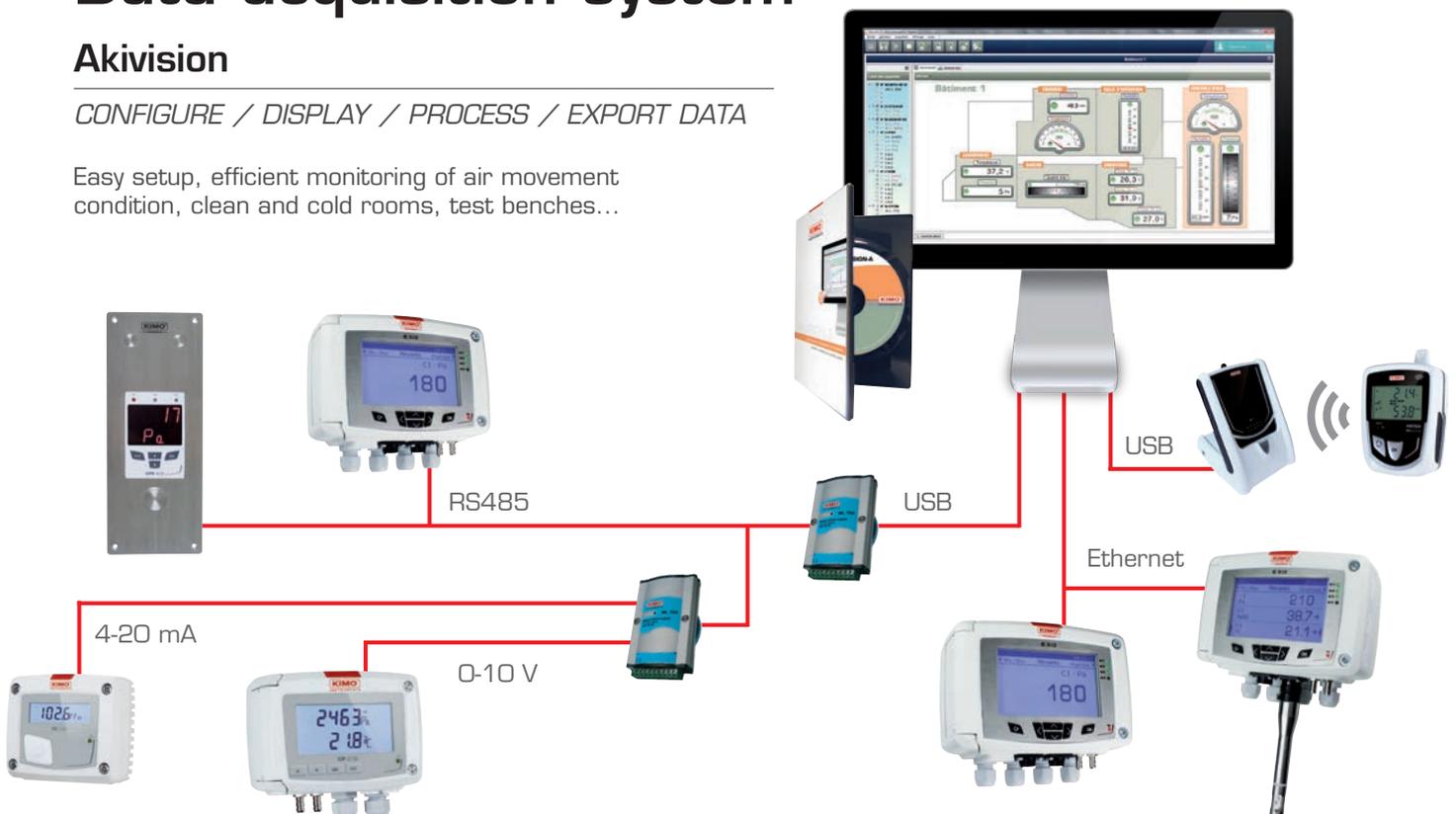


Data acquisition system

Akivision

CONFIGURE / DISPLAY / PROCESS / EXPORT DATA

Easy setup, efficient monitoring of air movement condition, clean and cold rooms, test benches...



Temperature Probes

Standard or custom-made probes

- Thermocouple, NTC, Pt 100, Pt 1000
- Probes with connection head
- Probes with cable
- Probes with ABS head



Wire probes

PVC/Silicone/Teflon®/ Glass silk cable

Stainless steel hose
Wire mounting : 2, 3, 4 wires
(single pair or multipair)



Connection head

Alu/Noryl/Stainless steel head

Stainless steel, heat resisting steel
or mineral insulated sheath, Alard
coating...
Single pair or multipair

Duct mount, remote or ambient probe

Pt 100, 0-10 V, 4-20 mA



+ Accessories

- Converters/transmitters
- Thermowell
- Thermocouple connectors
- Brackets and support wall fixing

- Adjustable ring
- PVC, silicone, Teflon® cable
- Stainless steel hose
(with or without shielding)



Calibration Benches

NEW

Pressure generator

GP 500

The pressure generator allows to adjust and calibrate measurement instruments in laboratory or on-site.

-2,500 to +2,500 Pa
-10,000 to +10,000 Pa

- 20 programs with adjustable generations
- Solid transport case
- Aluminium housing with adjustable carrying handle



NEW

Humidity generator

GH 500

Calibration of several instruments simultaneously
Multi-probe ventilated measuring chamber
Interchangeable regulating probe

From 10 to 85%RH



Dataloggers



1 or 2-line display
or without display



KISTOCK

- Measuring, recording and data processing
- Measurement of 1 to 5 parameters simultaneously
- Storage of up to 100,000 measurement points
- User-friendly configuration with KILOG software
- With or without 1 or 2-line display



HVAC



Food Industry



Clean Room



KILOG LITE
Free Software

NEW

Compact dataloggers

KH 50

**Temperature
Humidity**
-20 to +70°C
5 to 95 %RH
PDF Reports

KT 50



**Special food
industry
Temperature**
-40 to +70°C
PDF Reports



Data processing software

KILOG / KILOG 21CFR

Configuration, data download and
data processing





HVAC

*KH 110/210 - KT 110/210
KTT 310*

Up to 4 inputs for external probes
NTC or K, J, T thermocouple
-200 to +1,000°C
5 to 95 %RH
0 to 10,000 lux

Laboratory

KTH 350 - KTR 350

Up to 2 inputs for external probes
Pt 100 external probes
-100 to +400°C
0 to 100 %RH



Waterproof Probes

Food industry

KT 150/250 - KH 250

Up to 4 inputs for external probes
-40 to +120°C
5 to 95 %RH
0 to 10,000 lux

KT 20 G, L, T
-40 to +125°C
Memory: 8,192 points



+ Accessories

1. Large choice of temperature and hygrometry probes
2. Data collector for mobile data transfer
3. Anti-theft System
4. Kilog software



Wireless Datalogger

KISTOCK RF

- Measuring, recording and data processing
- Remote configuration
- Storage of up to 20,000 measurement points
- Up to 100 dataloggers in network



Communication base



Alarm box



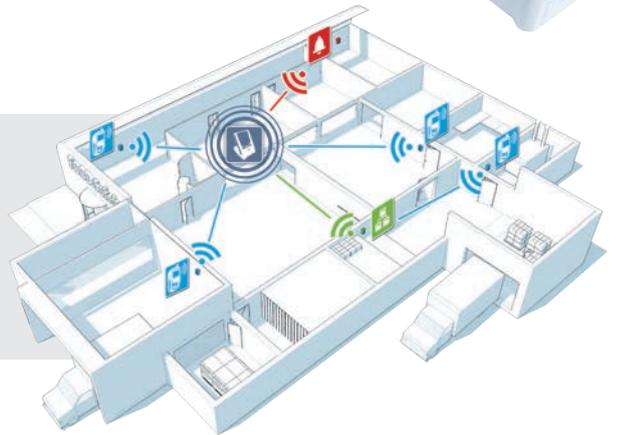
Wireless datalogger



Network extender

KIMO exclusivity

Pressure datalogger
 KP 110-RF / KP 111-RF
 -1,000 to +1,000 Pa
 -10,000 to +10,000 Pa



Class 100

KT 110-RF / KT 150-RF / KP 110-RF

Up to 1 input for external probe
 -40 to +70°C
 0 to 20 mA / 0 to 10 V
 -1,000 Pa to +1,000 Pa
 -10,000 Pa to +10,000 Pa



Class 200

KH 210-RF / KTU 210-RF

Up to 2 inputs for external probes
 Standard or remote probe
 -40 to +180°C / 0 to 100 %RH
 0 to 20 mA / 0 to 10 V
 0 to 20 A / 0 to 600 A



Class 300

KTR 310-RF / KTT 310-RF

Up to 2 inputs for external probes
 Pt 100 remote probe or
 Thermocouple K, J, T, S
 -200 to +1,760°C
 0 to 20 mA / 0 to 10 V

Liquid column Manometers

Liquid column manometers

- Inclined or vertical
- Measure slight variations in differential pressure of air or neutral gases
- Air treatment industry, clean rooms...



Vertical

0-100 mmH₂O to 0-2.6 bar
Units : mbar, Pa, DaPa...

Inclined

0-5 to 0-80 mmH₂O
Units : Pa, DaPa...



ECM

0-10 to 300 mmH₂O
Manual adjustable setpoints

+ Accessories

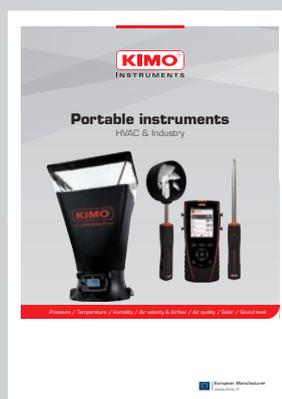
To fit any installation with proper connections :

- Liquid for manometer
- Tubes, junctions
- Pressure connections, wall-crossing connection...



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on www.kimo.fr



Portables instruments



Sensors transmitters



Flue gas analysers



Dataloggers

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