



HVAC Measuring Instruments

Export general catalogue 2016



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



European Manufacturer
www.kimo.fr

Combustion

Gas Analyser



SOLUTION

FOR ANY TYPE OF BOILER UP TO 400 KW

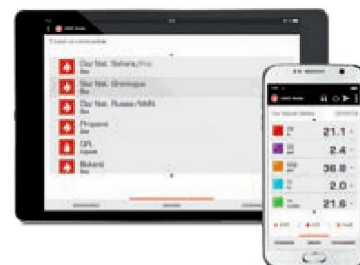
We have developed a new range of combustion gas analysers, which fulfills all the needs of heating professionals.

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

NEW APP

KIGAZ mobile

Mobile application compatible with all KIGAZ range (except KIGAZ 50).



Operating software

LIGAZ-2

FREE Software

Record your customers, boilers and measurements.

Download your datasets and the programme will automatically fill in the measurement report.
Synchronisation of PC/instrument database.

LOGAZ-2

Optional software

Easy reading of measurement reports.
Customize, print and export your files.
Organize your timetable, maintenance contracts, customers follow-up.
Display and recording of measurements in real-time.
Synchronisation of PC/instrument database.

Class 310 & 210

3



Up to **4**
interchangeable
sensors

KIGAZ 310

**O₂ LV / CO-H₂ / NO
NO₂ / SO₂ / CH₄**
sensors in standard or option



Any type
of boiler



Autozero
in the flue



**Built-in
water trap**



**Max level
alarm**



**CO
dilution**

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

O₂, CO (H₂ compensation), Losses, Excess air, Efficiency (condensation), Flue gas temperature, Ambient temperature, Dew point temperature, Draft, Differential pressure, Flue gas velocity, Dilution, CH₄

KIGAZ 210

Up to **3**
interchangeable
sensors

Interchangeable sensors
O₂ LV / CO-H₂ / NO / CH₄



Autozero
in the flue

Built-in
printer



Reports
printing



*Interchangeable probe
Customized procedure
Up to 10 measurements displayed simultaneously*

O₂ & CO (H₂ compensation)
Losses, Excess air, Efficiency (condensation)
Flue gas temperature & velocity
Ambient temperature
Differential pressure



KIGAZ 110

2
interchangeable
sensors

O₂ LV / CO-H₂
sensors



Protection of sensors by
pump stopping

Built-in
printer



Protective cover
with magnet

Step by step procedure
Self-test menu

O₂ flue gas, CO flue gas, CO₂ flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure & Pressure draft
Losses & Excess air
Efficiency up to 120%

KIGAZ 80

2
interchangeable
sensors

O₂ / CO-H₂
sensors



Protection of sensors by pump
stopping with threshold

External
printer (option)



Protective cover
with magnet



Step by step procedure
Self-test menu

O₂ flue gas, CO flue gas, CO₂ 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 80)*



*Protective cover with magnet
(supplied with KIGAZ 80,
option for KIGAZ 50)*



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 $\pm 2,000$ 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 : $\varnothing 14$, 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

Multifunction

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**



**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



Noise at
Workstation



NR comfort
Criteria



As per standards
EN **61672-1** / EN **60651**
EN **60804**

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



Class 210

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 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

3 INPUTS
for probes



Ethernet
Communication



Multifunction sensor

CA 310



2 INPUTS
for probe

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



Ethernet
Communication



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



Precise
Resolution



Front connection
for configuration
and calibration



Multi-channel Display

Flush-mount ATE 300

Display 3 parameters
alternatively.
RS485 Modbus

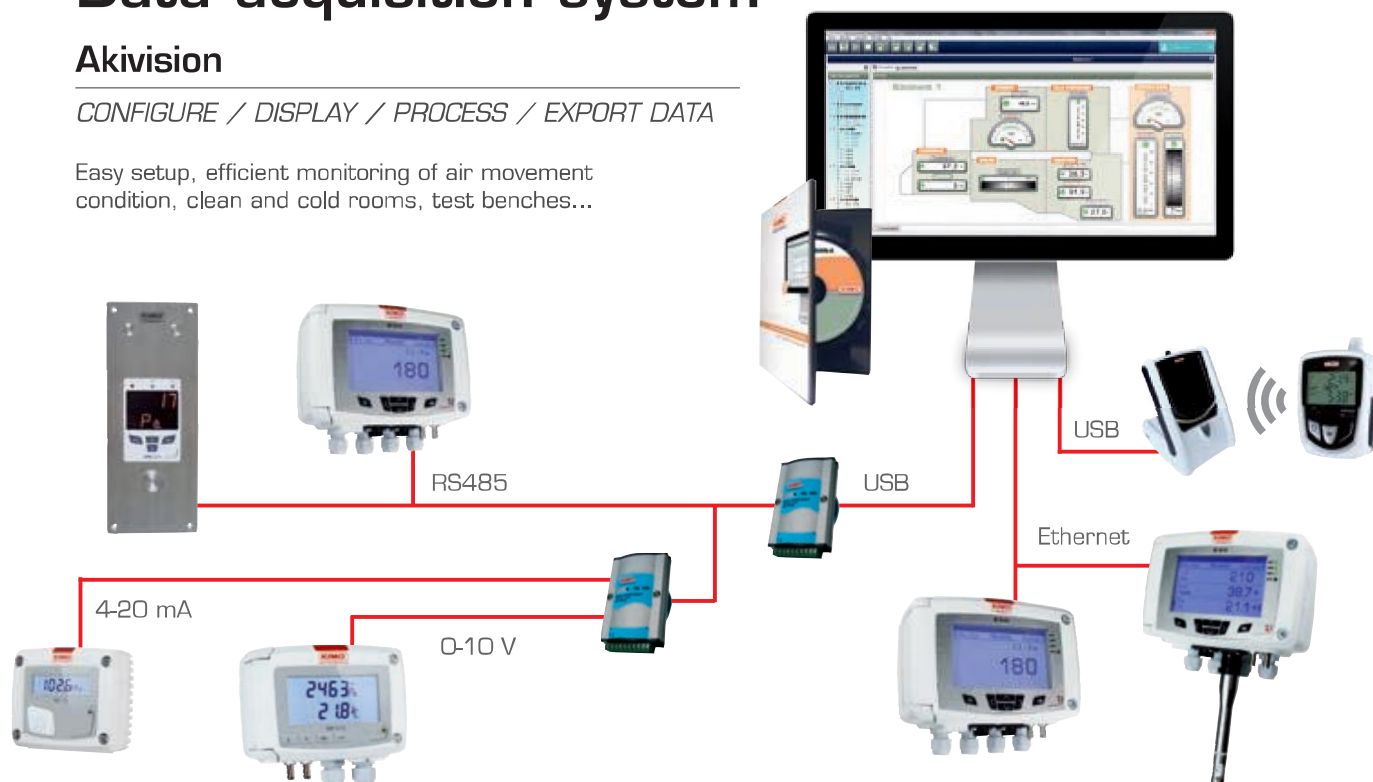


Data acquisition system

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



NEW

Dataloggers



Anti-theft
system



Multi
application

KISTOCK

- Measuring, recording and data processing
- Measurement of 1 to 5 parameters simultaneously
- Storage of up to 2,000,000 measurement points
- User-friendly configuration with KILOG software and Kistock Mobile



HVAC



Food Industry



Clean Room

KISTOCK mobile

Configuration, data visualisation and download (only available for class 320)



Class 50

KH 50 / KT 50

Temperature - Humidity
-40 to +70°C
5 to 95 %RH



Class 120

KH 120 / KT 120

Temperature - Humidity
-40 to +70°C
5 to 95 %RH
PDF Reports



Embedded
software



Class 220

KH 220 - KT 220 - KTT 220

Up to 2 inputs for external probes
 NTC or K, J, T, N, S thermocouple
 Humidity
 Water pressure
 -200 to +1,760°C
 5 to 95 %RH
 0 to 10,000 lux
 0 to 10 bar
 0 to 20 mA / 0 to 600 A
 0 to 10 V



Interchangeable
probes



With or without
display



Class 320

*KT 320 - KTT 320 - KP 320
 KPA 320 - KCC 320*

Up to 4 inputs for external probes
 Pt 100 or K, J, T, N, S thermocouple,
 CO₂, differential pressure, humidity,
 current
 -200 to +1,760°C
 5 to 95 %RH
 0 to 5000 ppm
 800 to 1100 hPa
 ±10,000 Pa
 0 to 20 mA
 0 to 600 A
 0 to 10 V



Mobile
application



Bluetooth
communication

Accessories



Large choice of temperature and
hygrometry probes



Data collector for
mobile data transfer
(20,000,000 pts)



Anti-theft System
(class 220 and
320)



Kilog software (option) and
Kilog lite software (free)

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



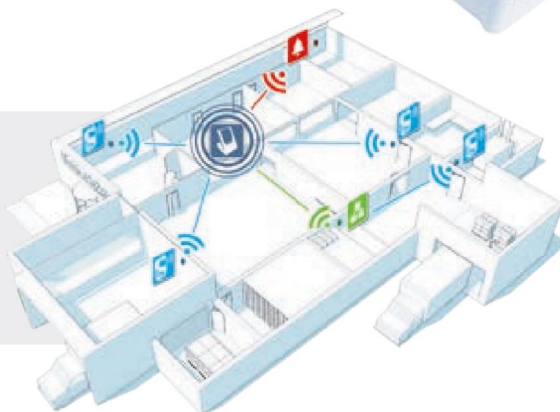
Wireless
datalogger



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...



Accessories



ECM

0-10 to 300 mmH₂O
Manual adjustable setpoints

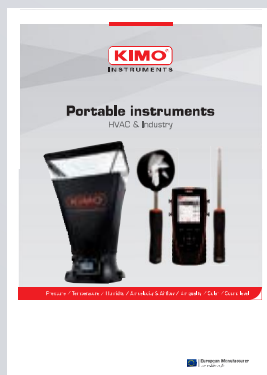
To fit any installation with proper connections :

- 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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Doc Générale 2016 - V1 - Anglais- 01/16

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