KIMO®
INSTRUMENTS

MEASURING INSTRUMENTS

Export General Catalogue

www.kimo-instruments.com

A member of sauermann®

Company profile

www.kimo-instruments.com

Key numbers

- Buildings: 10,000 m²
- Laboratories: 1,500 m²
- Production area: 5,000 m²
- 10 sales agencies in France
- Calibration and maintenance

Kimo, a French manufacturer, designs and markets air measurement and control devices.

Thanks to a wide range of portable and stationary devices, Kimo operates in all sectors of activity where it is necessary to control the indoor air quality and the good functioning of the ventilation, heating and cooling installations.

French Manufacturer
www.kimo.fr

sauermann®

KIMO® INSTRUMENTS

The French family-owned company Kimo, the French market leader in measuring instruments, has joined the Sauermann Group, a world leader in the design, manufacture and marketing of condensate removal pumps.

The two complementary companies offer a wide range of HVACR systems for professionals worldwide.

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04

Combustion gas analysers

08

HVAC portable instruments

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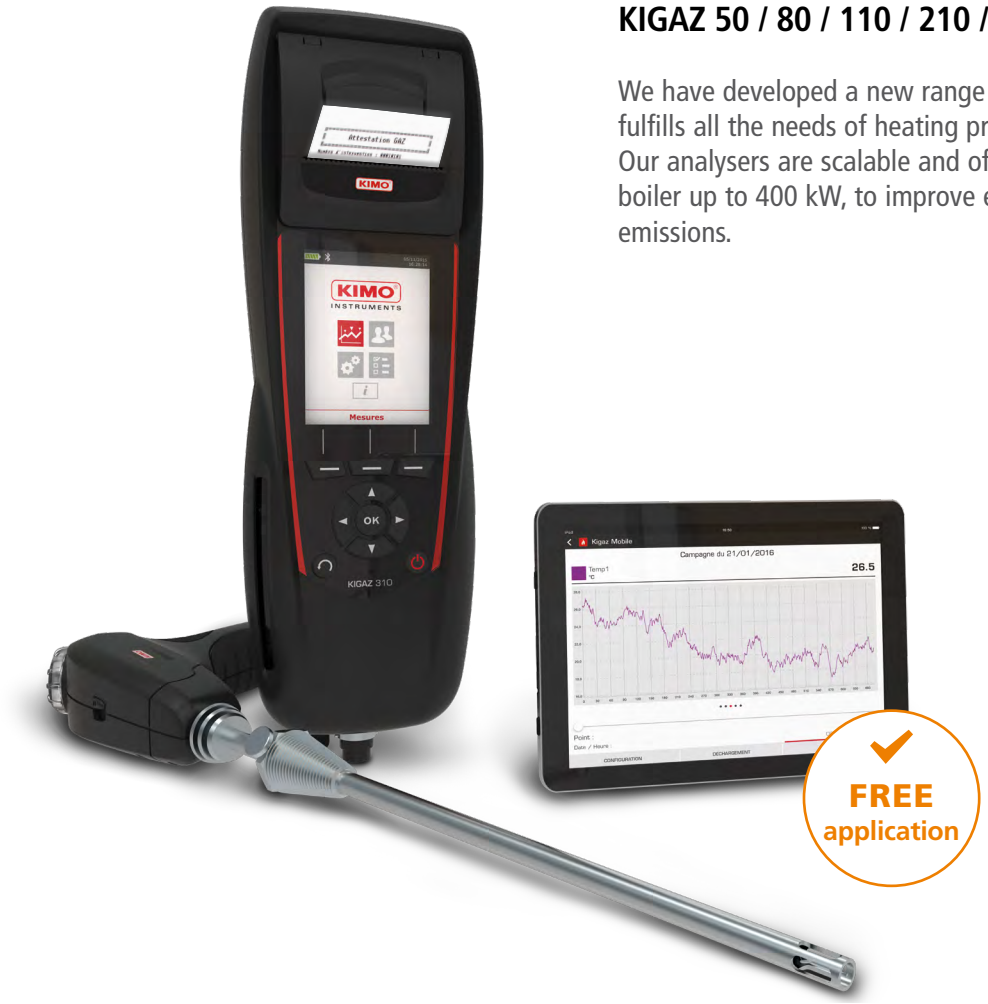
Data loggers

CONTROL OF BOILERS

Combustion gas analysers

Kigaz

Gas analysis / Temperature / Pressure



KIGAZ 50 / 80 / 110 / 210 / 310

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.

Up to 4 interchangeable sensors

Elastomere protective cover

Data processing software

Any type of boiler

SOFTWARE

Ligaz-2

- Record your customers, boilers and measurements
- Automatic report filling
- Synchronisation of PC/instrument database

Logaz-2

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

KIGAZ mobile

Application iOS and Android

- Real-time measurement display
- Graphical display
- Data recording
- CSV, XML and PDF export

DISPONIBLE SUR Google play

Télécharger dans l'App Store

Interchangeable sensors

The sensor electronics contain calibration data, which means that the operator can replace them without returning the unit to the factory.

Kimo equips its KIGAZ (excluding KIGAZ 80 and 50) units with a lead-free O_2 sensor with a lifetime of 5 years.

Lead-free O_2 sensor

Connected instruments

Available as an option, the low consumption Bluetooth® module is compatible with all KIGAZ units (excluding the class 50) and provides significant time gains by wirelessly connecting analysers with LIGAZ-2 or LOGAZ-2 software or the mobile KIGAZ application.

Bluetooth® connection

Expert
KIGAZ 310

- Up to 4 interchangeable sensors
- Changeable probe lenght
- Wide color screen
- Customized procedures
- Built-in water trap
- 3 pressure sensors
- Supplied with Ligaz-2 software, protective cover and transport case

Auto-zero in the flue

O_2LL / CO-H_2 / NO / NO_2 / SO_2 / CH_4 sensors, standard or option

CO dilution

Mobile application

Long Life O_2 sensor

Bluetooth® connection

ECS network 2 TcK inputs

Built-in printer

Flexible
KIGAZ 210

- Up to 3 interchangeable sensors
- CO sensor protection by solenoid valve
- Auto-zero in the flue
- Reports printing
- Supplied with Ligaz-2 software, protective cover and transport bag

O_2LL / CO-H_2 / NO / CH_4 interchangeable sensors

Mobile application

Long Life O_2 sensor

Built-in printer

Essential
KIGAZ 110

- 2 interchangeable sensors
- Sensor protection by pump shutdown
- Reports printing
- Supplied with Ligaz-2 software, protective cover and transport bag

O_2LL / CO-H_2 interchangeable sensors

Mobile application

Long Life O_2 sensor

Built-in printer

Compact
KIGAZ 80

- 2 interchangeable sensors
- Sensor protection by pump shutdown
- Supplied with Ligaz-2 software, protective cover and transport bag

O_2 / CO-H_2 interchangeable sensors

Mobile application

External printer (option)

Economical
KIGAZ 50

- 2 fixed sensors
- 10h battery life
- Backlight
- Automatic shutdown
- Supplied with transport bag

External printer
(option)

O_2 / CO sensors

DHW network 1 TcK input

Auto-zero in 30 seconds

Additional measurements

Gas detection
FG 110

- Detection of gas such as methane (CH_4), LPG (isopropanol and isobutane) and other combustible gases (hydrocarbons)
- Flexible hose

Gas network
MP 110

Gas tightness special manometer for gas network

- 0 to ±500 mbar

Refrigerant gases
DF 110

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

Ambient CO
CO 50/110

CO and CO max measurement

- 0 to 500 ppm
- -20 to +80°C

INDOOR AIR QUALITY

HVAC Portable

Instruments

Temperature / Humidity / Pressure / Air velocity / Airflow
Air quality / Gas detection / Light / Tachometry

Class 50, 110, 210 & 310

The range of portable devices is ideal for technicians responsible for maintaining heating, ventilation, and cooling installations.

- Wireless and Smart+ probes
- Graphical wide screen
- Data recording
- Ergonomic design

Graphical display

Magnetic protective cover

IP54 housing

Interchangeable probes & modules

Datalogger

Configure / Measure / Data processing

- Configuration of instruments
- Instrumentsm anagement
- Reports creation
- Customized channels
- Insert commands
- Insert legends and statistics
- Add mathematical functions

The + of class 210 & 310

Designed for the field
An overmoulding made of elastomere protects the instrument, guarantees shockproofing.

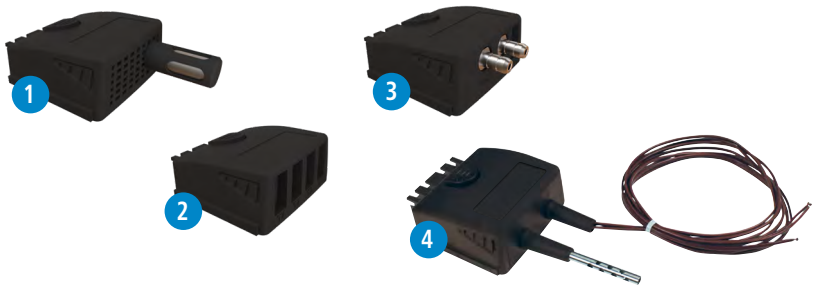
Nonstop measurements
This new generation of instruments has an interchangeable and rechargeable Li-ion battery.

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.

Interchangeable 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
- CO_2: 0 to 5,000 ppm
- -40 to +180°C
- 3 to 98 %RH
- 0 to 5 m/s

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

- Differential pressure
- ±500 Pa to ±2,000 mbar
- Air velocity with Pitot tube
- 2 to 100 m/s
- Atmospheric pressure
- 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 m^3/h

Class 50, 110 & 210

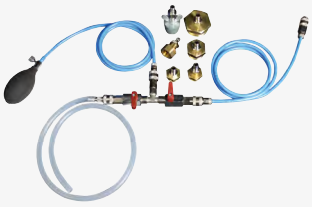
Hygrometers
HD 50/110 HQ 210

- 3 to 98 %RH
- -40 to +180°C
- -50 to +80°Ctd
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm

Tachometers
CT 50/110

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

Accessories



Gas network pack

ABS transport case

Saturated salt solutions

Measuring cones

Debimo blades

Protective housing

Adjustable wedge for telescopic vane and hotwire probes

Pitot tubes

Multi-function

Class 310

AMI 310

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

- ±500 Pa / ±2,500 Pa / ±10,000 Pa
- ±500 mbar / ±2,000 mbar
- Thermocouple: -200 to +1,760°C
- Pt 100: -200 to +600°C
- Humidity: 3 to 98 %HR
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm
- Air velocity: -5 to 35 m/s
- Airflow: 0 to 99,999 m^3/h
- Gas detection: 0 to 10,000 ppm
- Tachometry: 30 to 60,000 rpm

Wireless probes

Data processing software

Graphical display

Interchangeable probes & modules

Micro-SD card

Colour wide screen

Thermometers

Portable instruments

Temperature

Class 210

TM 210

- -200 to +1,760°C
- 2 Pt 100 channels
- 4 thermocouple inputs
- 1,000 datasets

Thermocouple module
4 inputs

Wireless probes

Elastomere overmoulding

NEW

TR 61/62

- 1 or 2 inputs
- Pt 100
- -100 to +400°C

NEW

TK 61/62

- 1 or 2 inputs
- Thermocouple K, J, T, S
- -200 to +1,760°C

Hold/min/max functions

Infrared

KIRAY 100/200/300

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

Airflow meter

Airflow / Air velocity / Pressure

Calculation functions and autonomous micro-manometer

Airflow meter

DBM 610

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:
  720x720 mm
  720x1320 mm
  420x1520 mm
  1020x1020 mm

Pa **Micromanometer function**

NEW

Remote velocity grid

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

- Average air velocity from 24 points
- Telescopic and articulated pole: maximum length 2.05 m, 0 to 90°, positioning strut
- Backpack

PROCESS CONTROL

Data loggers

Kistock

Temperature / Humidity / Pressure / Air quality / Light
Current / Voltage / Pulse / Water pressure

Up to 7 YEARS battery life

Multi Application

2 programmable alarm tresholds

Up to 2,000,000 measuring points

Kilog software (option)

Anti-theft system

With the new range of Kistock stand-alone data loggers and Kilog software, you can collect and analyse all the metrics of industrial climate control engineering processes, monitor the climatic environment of a chamber and respond to the traceability requirements of agri-food and pharmaceutical industries during transport.

ACCESSORIES

Probes

Large choice in option

KNT 320

Data collector 20,000,000 pts

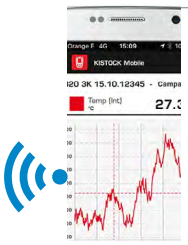
Kilog and Kilog-Lite

Configuration and exploitation software

Anti-theft kit

For class 220 and 320

Key benefits



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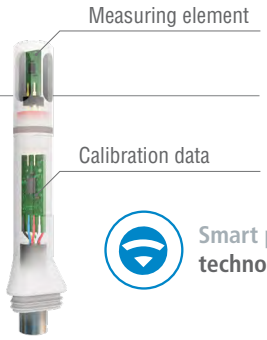
Télécharger dans l'App Store



Smart plug **technology**

Mobile application

- Bluetooth® connection
- Data visualisation
- Free download

Smart and interchangeable

probes (class 320)

- Advanced technology
- Integrated calibration data

Mini

KH 50 / KT 50

Temperature, humidity

- -40 to +70°C
- 5 to 95 %RH
- USB connection

IP65 **Waterproof housing**

USB

KH 120 / KT 120

Temperature, humidity

- -40 to +70°C
- 5 to 95 %RH
- Integrated software
- USB connector

KT 50 / KT 120 EN-12830

Multi-function

KH 220 / KT 220 / KTT 220

Temperature, humidity, water pressure, light, current, voltage, pulse

- -200 to +1,760°C
- 5 to 95 %RH
- 0 to 10,000 lux
- 0 to 20 bar
- 0 to 20 mA, 0 to 600 A
- 0 to 10 V

Interchangeable probes

Connected

KT 320 / KTT 320 / KCC 320
KPA 320 / KP 320-321

Temperature, humidity, pressure, atmospheric pressure, air quality, curent, voltage, pulse

- -200 to +1,760°C
- 5 to 95 %RH
- 0 to 5,000 ppm
- 800 to 1,100 hPa
- -10,000 to +10,000 Pa
- 0 to 20 mA, 0 to 600 A
- 0 to 10 V

Mobile application

Bluetooth® communication

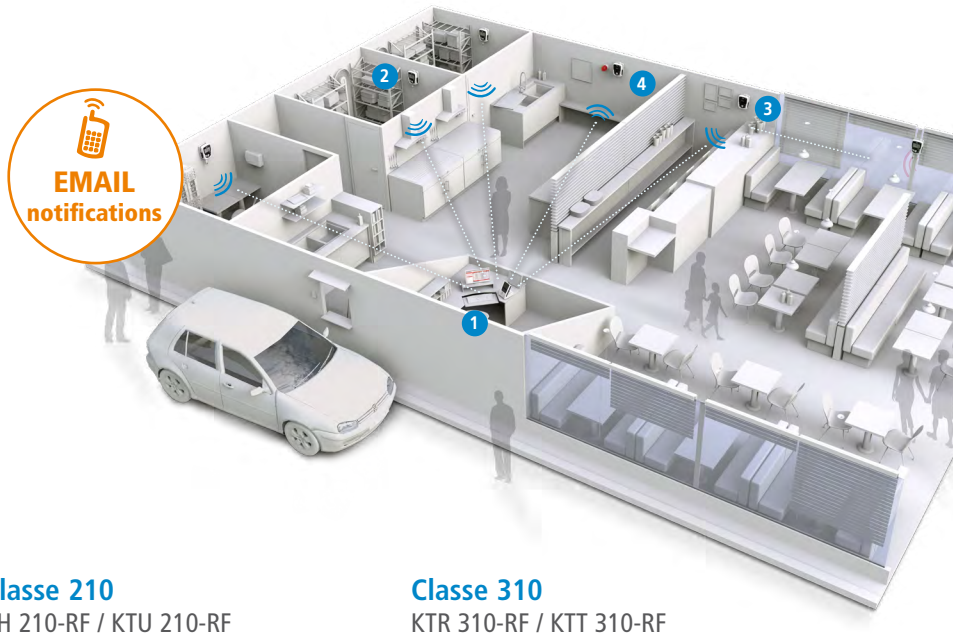
WIRELESS

Data loggers

Kistock RF

Temperature / Humidity / Pressure / Current / Voltage / Pulse

- **Up to 100 devices in network**
- **Remote configuration**
- **Up to 3 years battery life**
- **Up to 20,000 measurement points**



Example of application in a restaurant

1. Communication base
2. Temperature data logger
3. Network extender
4. Alarm box

Classe 110
KT 110-RF / KT 150-RF

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

Classe 210
KH 210-RF / KTU 210-RF

Up to 2 inputs for external probes
- -40 to +180°C
- 0 to 100 %RH
- 0 to 20 mA, 0 to 10 V

Classe 310
KTR 310-RF / KTT 310-RF

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

Calibration benches

Pressure / Humidity / Temperature

Calibration in laboratory or on-site
High accuracy
Automatic auto-zero

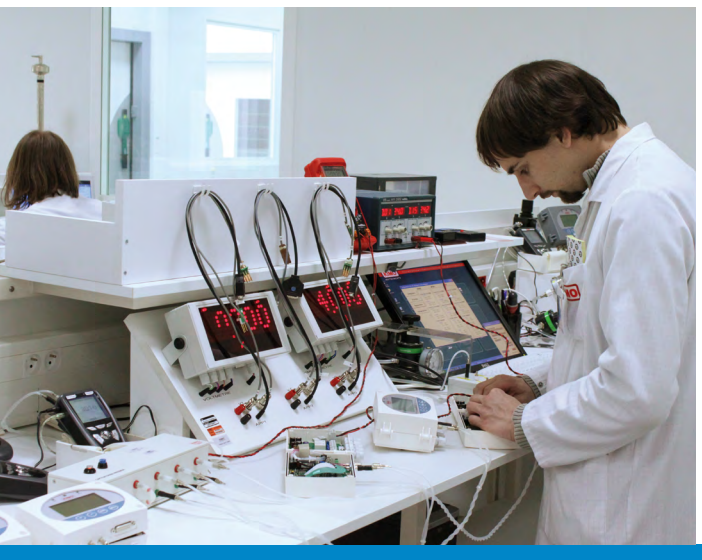
Pressure generator
GP 500

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

Saturated salt solutions
KSH11 / KSH44 / KSH85

Saturated salt solutions are dedicated to test and control transmitters (fixed installation) and portable instruments.



Hygrometry generator
GH 500

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

- 10 to 85 %RH

Sensors

Transmitters

Pressure / Humidity / Temperature / Air velocity
Airflow / Air quality / Solar / Light

Industry, clean room, 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

Configurable outputs

RCR relay

Waterproof ABS housing

1 or 2 analogue outputs

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

- ±100 Pa to ±2,000 mbar
- De 0 to 100 %RH
- De -100 to +400°C
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm

Class 110

CP / HM / TH / TM / CTV / CR / LR / CO
1 or 2 analogue outputs

- ±100 Pa to ±2,000 mbar
- 800 to 1,100 hPa
- 0 to 100 %RH
- -100 to +400°C
- 0 to 30 m/s
- 0 to 1,500 W/m²
- 0 to 10,000 lux
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm

CO/CO_2 sensors

KIMO designed CO/CO_2 transmitters in order to meet with requirements of new norms and decrees on air quality.

Multi-function

Class 210

CP / TH / TM / CTV / COT

2 analogue outputs
2 RCR relays
Calculation functions
Automatic autozero

- ±100 Pa to ±2,000 mbar
- 0 to 100 %RH
- -100 to +400°C
- 0 to 30 m/s
- CO: 0 to 500 ppm
- CO_2: 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.

Multi-function

Class 310

Multi-function sensor
C 310

Display and measure 4 parameters simultaneously
1 SPI-2 card input
4 RCR relays (option)
2 analogue outputs (+2 in option):
0-5/10 V or 0/4-20 mA

Ethernet communication

MODBUS RS485

IP65
Waterproof ABS housing

4 visual and audible alarms

Large display multi-function sensor
CA 310

1 SPI-2 or MVA card input
3 RCR relays
3 analogue outputs:
0-5/10 V or 0/4-20 mA
3 visual and audible alarms

Interchangeable probes
C 310, CPE 310-S and CA 310
Temperature / Humidity / Air velocity / CO / CO_2, ...

- -10,000 to +10,000 Pa
- 0 to 100 %RH
- -50 to +180°C
- 0 to 35 m/s
- 0 to 99,999 m³/h
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm
- 800 to 1,100 hPa
- 0 to 10 V
- 0 to 20 mA

1 INPUT
for probe

Front connection
for configuration
and calibration

Flush-mount multi-function sensor

CPE 310-S

Special for clean room
Front calibration
3 analogue outputs:
0-5/10 V or 0/4-20 mA

- ±100 Pa

MODBUS RS485

4 visual and audible alarms

Precise resolution

Multi-channel display

ATE 310

Flush-mount
Display 3 parameters alternatively
RS485 MODBUS

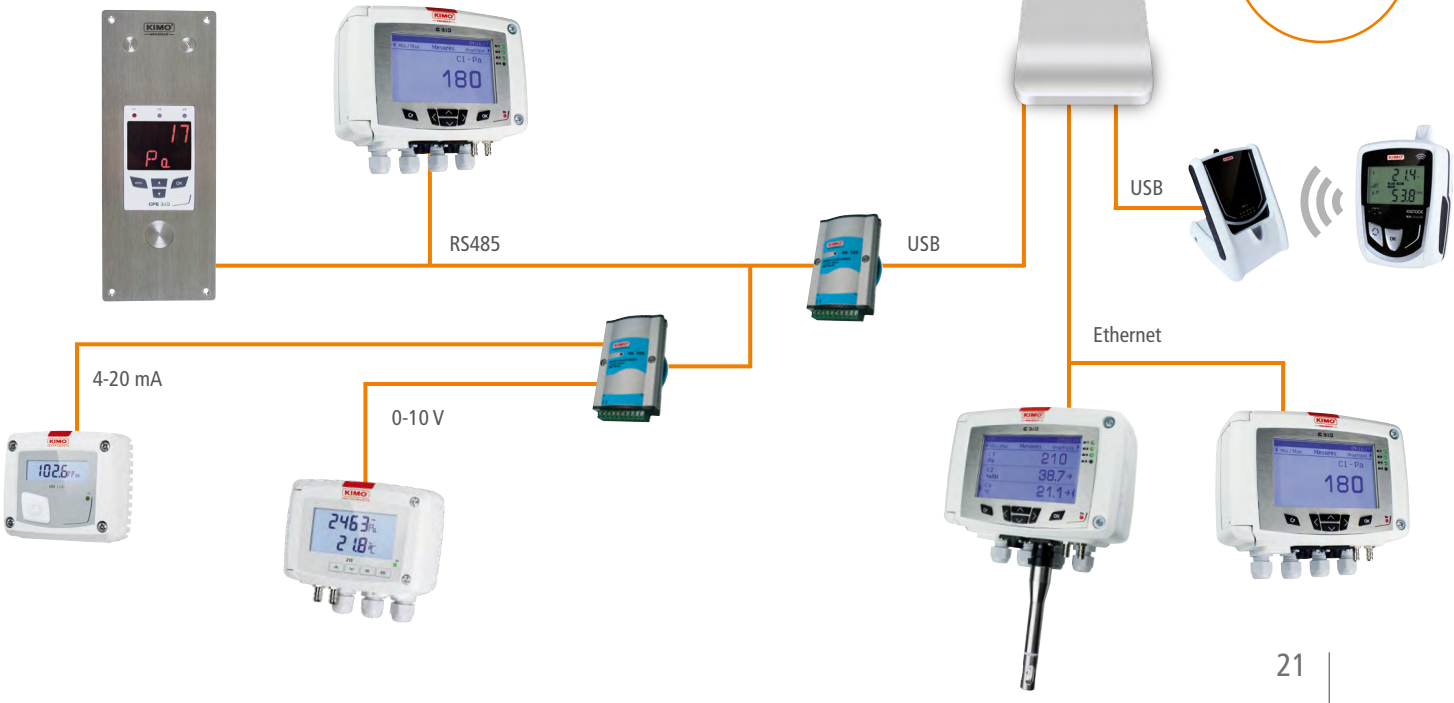
Data acquisition system

Akivision

Configure / Display / Process / Export data

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

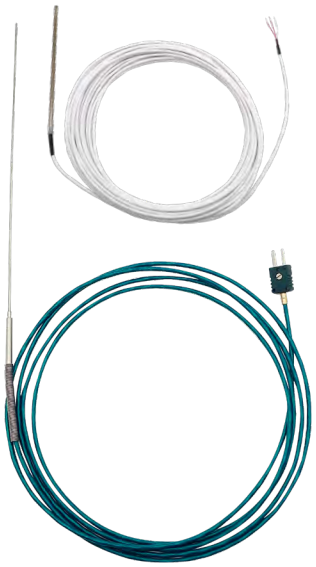
ERGONOMIC graphical INTERFACE



Temperature

Probes

Thermocouple / Pt100
Head / Cable / ABS Probes



NORME
IEC 751

Wire probes

ABS head

Connection head

Measuring range
-200 to +1,150 °C

NTC
Probes

Calibration
-200 to +1,500 °C

Thermocouple
probes

Liquid column manometers

Differential pressure

Measure slight variations in differential pressure of air or neutral gases

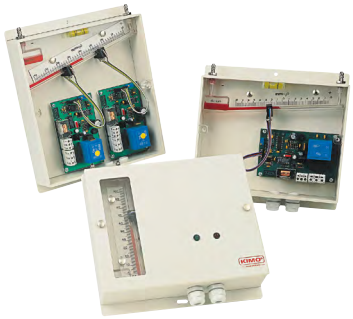
Air treatment industry, clean rooms, ...

Inclined

- 0-5 to 0-80 mmH_2O
- Units: Pa, daPa...

Vertical

- 0-100 mmH_2O to 0-2,6 bar
- Units: mbar, Pa, daPa...



ECM

- 0-10 to 300 mmH_2O
- Manual adjustable setpoints

ACCESSORIES

To fit any installation with proper connections

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

Metrology & Laboratories

Verification / Adjustment / Calibration

Metrology

- 100% reliable measurements

Calibration checks the measurements accuracy of the instrument, compared to COFRAC certified standard reference instruments.

Calibration certificates show the details of Kimo standard reference instruments and their connection to National Standards such as COFRAC in France.

Kimo can perform COFRAC calibrations to your specification.

Calibration and adjustment

1,500 m² of laboratories

- Temperature
- Hygrometry
- Air velocity
- Airflow
- Pressure
- Gas analysis
- Weighting
- Solar power
- Tachometry
- Illuminance
- Electricity

cofrac ETALONNAGE ACCREDITATION N°2-1885 PORTÉE DISPONIBLE SUR WWW.COFRAC.FR

Accredited temperature laboratory as per ISO 17025 standard

KIMO can perform COFRAC calibrations on any type of thermometer: measuring chain, PT100, Thermocouple) within a range from -70 to +200°C, in sterilizer or in baths.

cofrac ETALONNAGE ACCREDITATION N°2-5553 PORTÉE DISPONIBLE SUR WWW.COFRAC.FR

Accredited hygrometry laboratory as per ISO 17025 standard

KIMO can perform COFRAC calibrations on any type of hygrometer within a range from 5 to 95 %RH for a dry temperature from +10 to +50°C.

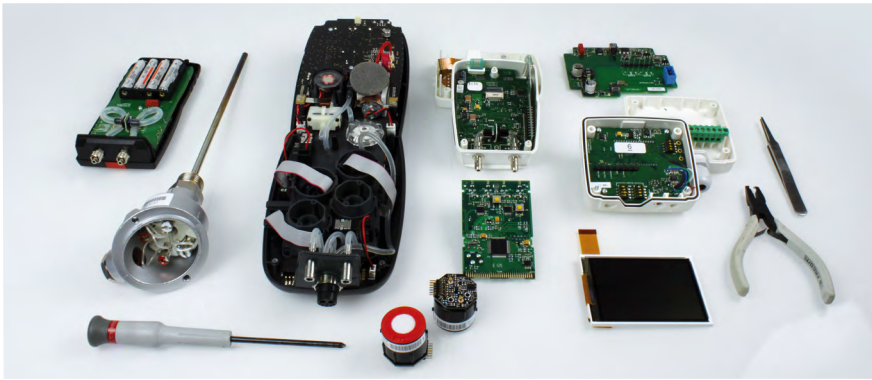
Services & Maintenance

Control / Repair

Customer support

On receipt of your instrument, our technicians take care of it in accordance with our quality procedures. A complete check is performed and a quotation is issued.

The instrument is cleaned and repaired.
A complete test is done prior to return shipment.



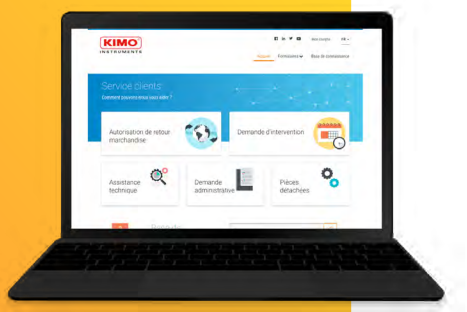
Free inspection and quotation

Manufacturer of innovative solutions for the measurement and control of indoor air quality.

Customer service portal

Use our customer service portal to contact us.

http://kimo-en.custhelp.com



cofrac ETALONNAGE SCOPE N°2-1885 AVAILABLE ON WWW.COFRAC.FR

Accredited temperature laboratory as per ISO 17025 standard

KIMO can perform COFRAC calibrations on any type of thermometer (measuring chain, Pt100, thermocouple, etc.) within a range from -70 to +200°C (in sterilizer or in baths).

cofrac ETALONNAGE SCOPE N°2-5553 AVAILABLE ON WWW.COFRAC.FR

Accredited hygrometry laboratory as per ISO 17025 standard

KIMO can perform COFRAC calibrations on any type of hygrometer within a range from 10 to 95 %RH, for a dry temperature from +10 to +50°C.

More information
www.kimo-instruments.com

afaq ISO 9001 Qualité AFNOR CERTIFICATION

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