KIMO
INSTRUMENTS

MEASURING INSTRUMENTS
Export General Catalogue

A member of **sauermann**

www.kimo-instruments.com

sauermann®

KIMO® INSTRUMENTS

E INSTRUMENTS

For over 40 years, the Sauermann Group has designed, manufactured and sold products and services dedicated to industrial and HVACR markets. The Group specifically focuses on the detection, measurement and control of indoor air quality (IAQ).

We operate three main brands: Sauermann for condensate removal pumps (including accessories and solution kits) and instruments for improving indoor air quality, as well as Kimo and E Instruments for instruments aimed at measuring and monitoring air parameters.

The Group has a worldwide presence, is located on three continents (Europe, Asia and North America), has 21 sites (including four production plants).

Content

Services & Maintenance
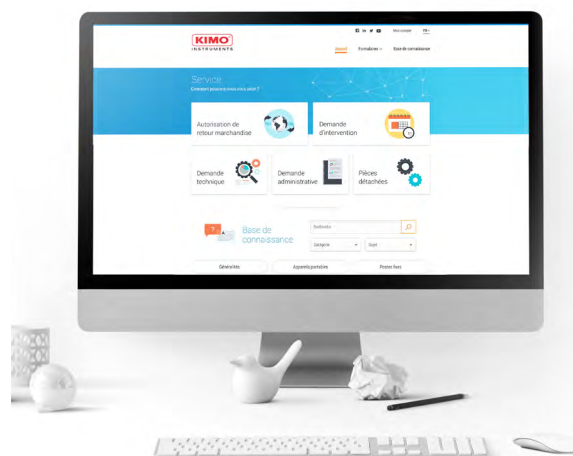
Control / Repair

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.

Customer service portail

Use our new services portal to contact us.

http://kimo-fr.custhelp.com

 Field services

 Help line

 Calibration and settings

1,500 m² of laboratories

- Air flow
- Air velocity
- Combustion
- Temperature

- Humidity
- Pressure
- Electrical current
- Tachometry

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.

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.

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

FREE application

Any type of boiler

SOFTWARE

Ligaz-2

- Record your customers, boilers and measurements

Logaz-2

- Easy reading of measurement reports. Customize, print and export your files
- Organize your timetable, maintenance contracts, follow-ups

- Automatic report filling
- Synchronisation of PC/instrument database

- 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

Supplied with CALIBRATION certificate

Auto-zero in the flue

CO dilution (5%)

Long Life O_2 sensor

DHW network 2 TcK inputs

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

Mobile application

Bluetooth® connection

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

Supplied with CALIBRATION certificate

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

Supplied with CALIBRATION certificate

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)

Supplied with CALIBRATION certificate

Economical
KIGAZ 50

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

Supplied with ADJUSTMENT certificate

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

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
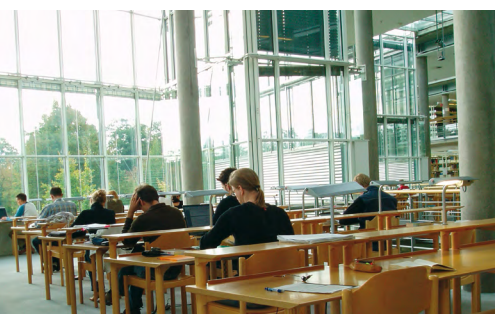
Graphical display

Magnetic protective cover

IP54 housing

Interchangeable probes & modules

Datalogger

Configure / Measure / Data processing

- Configuration of instruments
- Instruments management
- 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
- 3 to 85 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

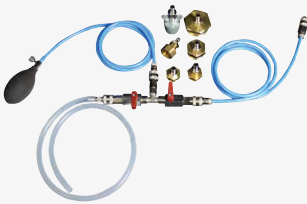## Class 50, 110 & 210

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
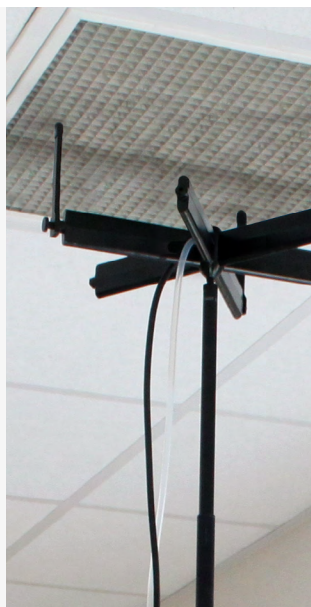 1020x1020 mm

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
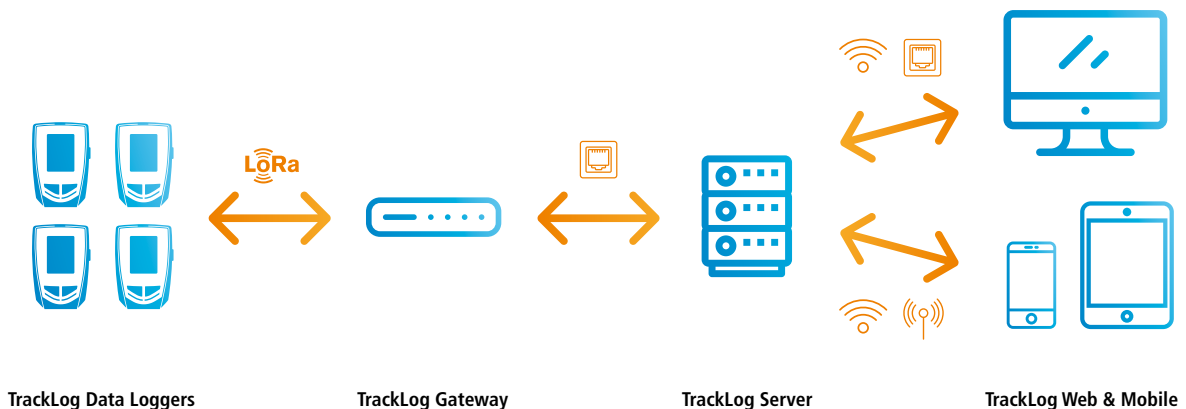- Backpack

TrackLog

LoRa® Powered Data Loggers

Temperature / Humidity / Pressure / Air Quality / Atmospheric Pressure

Sauermann has released a new TrackLog line of Data Loggers featuring LoRa® wireless technology that allows customers to monitor multiple parameters over long distances, using an interference resistant connectivity and a high strength signal.

LoRa® is a Low Power Wide Area Network. It offers a mix of long range, low power consumption and secure data transmission that is making our world a Smart Planet.

| TrackLog Data Loggers | TrackLog Gateway | TrackLog Server | TrackLog Web & Mobile |

Product overview

TrackLog Data Loggers

LoRa

Calibration

Interchangeable probes

Hotline

Gateway

Data Loggers

TrackLog server

TrackLog app

LoRa® is a Low Power Wide Area Network or LPWAN technology developed by the chip manufacturer, Semtech. LoRaWAN™ is a communication protocol specification built on top of the LoRa® technology.

Measure multiple parameters

Temperature, humidity, CO_2, atmospheric pressure, differential pressure

Long-distance connectivity

LoRaWAN™ provides extended range

Long battery life

LoRaWAN™ provides extended battery life

Lower overall cost of ownership

A single receiver covers your entire site in most cases

Easy to set up, use and maintain

A single receiver covers your entire site in most cases with simple configuration

Data integrity

Accuracy and consistency ensured over the entire life-cycle

2-line LCD display

High accuracy 0.01 resolution

Interchangeable probes

TrackLog App
Web/mobile software

- Continuous monitoring
- For multi-site use and distance monitoring
- Easy installation
- Configurable alarms and alerts via PC, e-mail and SMS
- Secured, accessible and exportable data to facilitate audit report

LoRa   LoRa   LoRa

KT TrackLog   **KTT TrackLog**   **KP TrackLog**   **KCC TrackLog**
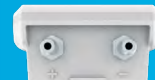
Technical information

TrackLog Data Loggers

	KT TrackLog	KTT TrackLog	KP TrackLog	KCC TrackLog
Memory capacity	20,000 points	20,000 points	20,000 points	20,000 points
Recording frequency	From 1 minute to 24 hours	From 1 minute to 24 hours	From 1 minute to 24 hours	From 1 minute to 24 hours
Parameters	Relative humidity Temperature	Thermocouple temperature	Differential pressure	Temperature Relative humidity Atmospheric pressure CO_2
Internal sensors	1	-	1	4
External probes	Up to 2	Up to 4	-	-
Temperature range	Internal NTC -40 to +70°C External: see probes data sheet	-	-	-40 to +60°C
Relative humidity range	0 to 100 %RH	-	-	0 to 100 %RH
Thermocouple range	-	K -200 to +1,300°C J -100 to +750°C T 200 to +400°C N -200 to 1,300°C S 0 to +1,760°C	-	-
Differential pressure	-	-	-1,000 to +1,000 Pa	-
Atmospheric pressure	-	-	-	800 to 1,100 hPa
CO_2	-	-	-	0 to 5,000 ppm
Protection	IP65	IP54	IP65	IP40
Battery life	3 years*	3 years*	3 years*	1 year*
Safety lock	🔒	🔒	🔒	🔒
LoRa® frequency	868 Mhz (Europe)	868 Mhz (Europe)	868 Mhz (Europe)	868 Mhz (Europe)
Additional benefits	High relative humidity/ temperature accuracy**	NA	NA	High relative humidity/ temperature accuracy***

* On the basis of 1 measurement each 15 minutes at 25°C
** Refer to TrackLog probes data sheet for more information
*** Refer to KCC TrackLog data sheet for more information

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
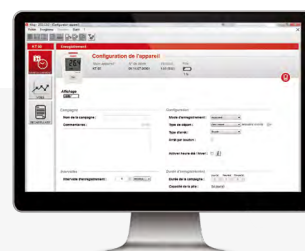
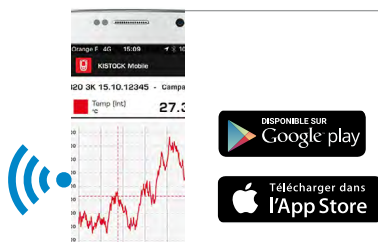**Kilog and Kilog-Lite**

Configuration and
exploitation software

Anti-theft kit

For class 220 and
320

Key benefits

Measuring element

Calibration data

Smart plug technology
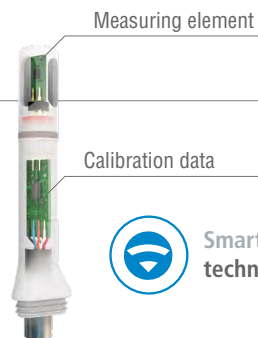
Mobile application

- 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

Data loggers

Kistock RF

Temperature / Humidity / Pressure / Current / Voltage / Pulse

Up to 100 devices in network

Remote configuration
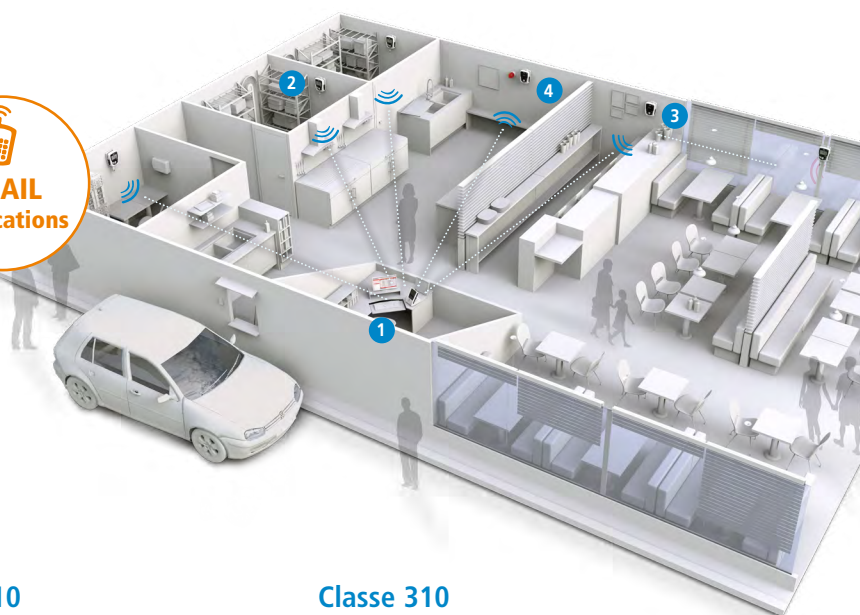
Up to 3 years battery life

Up to 20,000 measurement points

EMAIL notifications

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

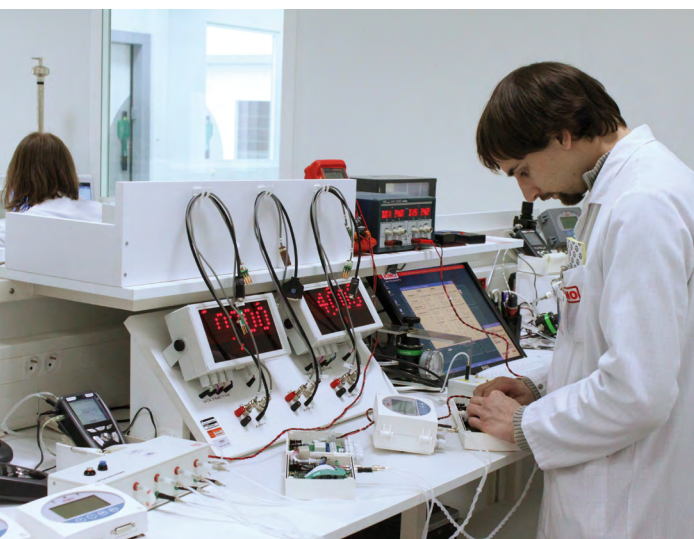Saturated salt solutions are dedicated to test and control transmitters (fixed installation) and portable instruments.

Hygrometry generator
GH 500

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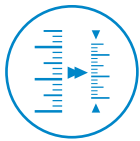Interchangeable regulating probe.

- 10 to 85 %RH

✔
EN 61010-1
STANDARD

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
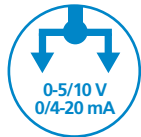- Outputs: 4-20 mA/0-20 mA or 0-10 V/0-5 V

**Configurable
outputs**

**RCR
relay**

3 A
230 Vac

IP65

**Waterproof
ABS housing**

**1 or 2 analogue
outputs**

0-5/10 V
0/4-20 mA

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/m^2
- 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-R
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
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm
- 3 to 85 m/s (with Pitot tube) (CP210)
- 0 to 30 m/s (with hotwire) (CTV210)

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

2 INPUTS for probes

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

1 INPUT for probe

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
- 3 to 85 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

Flush-mount multi-function sensor
CPE 310-S / CPE 311-S

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

- ±100 Pa
- ± 1,000 Pa

MODBUS RS485

4 visual and audible alarms

Precise resolution

Front connection for configuration and calibration

Alternative display

Multi-channel display
ATE 310

Flush-mount
Display 3 parameters alternatively
RS485 MODBUS

Data acquisition system

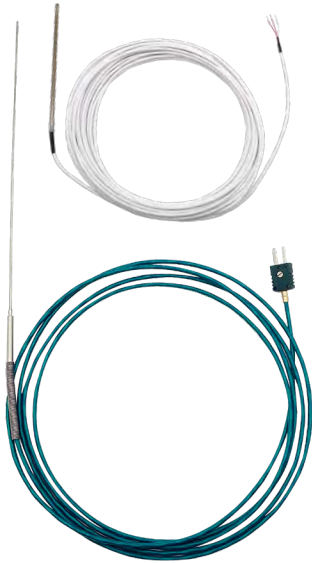### Akivision
Configure / Display / Process / Export data

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

ERGONOMIC graphical INTERFACE

USB

RS485

USB

4-20 mA

0-10 V

Ethernet
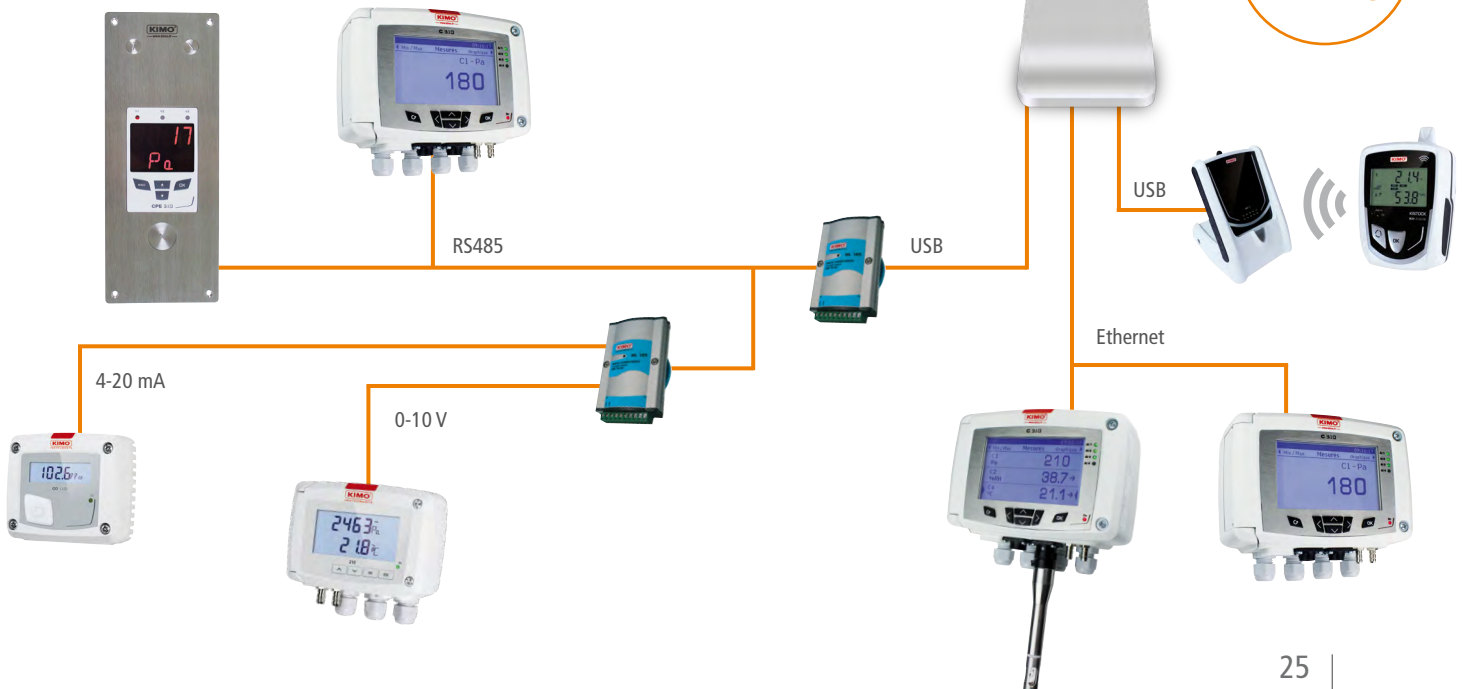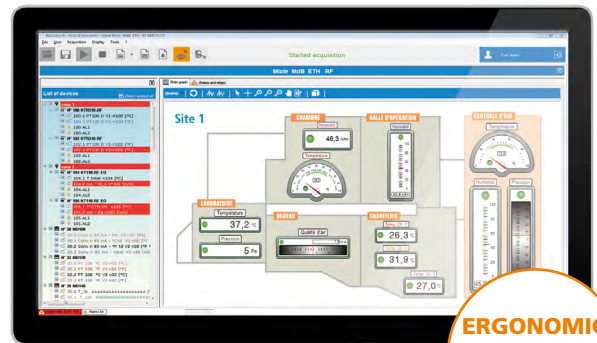
Temperature
Probes

Thermocouple / Pt100
Head / Cable / ABS Probes

NORME IEC 751

Wire probes   **ABS head**   **Connection head**

Measuring range
-200 to +1,150 °C

Pt 100 probes
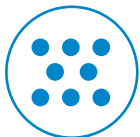
Calibration
-200 to +1,500 °C

Thermocouple probes

Liquid column manometers

Differential pressure

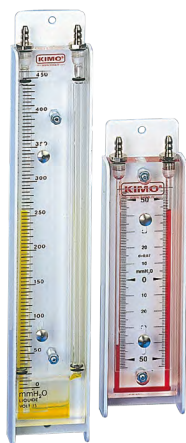## Measure slight variations in differential pressure of air or neutral gases

Air treatment industry, clean rooms, ...

Inclined

- 0-5 to 0-80 mmH$_2$O
- Units: Pa, daPa...

Vertical

- 0-100 mmH$_2$O to 0-2,6 bar
- Units: mbar, Pa, daPa...

ECM

- 0-10 to 300 mmH$_2$O
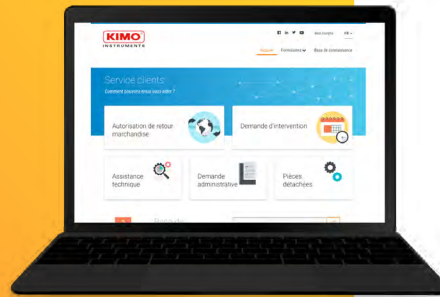- Manual adjustable setpoints

ACCESSORIES

To fit any installation with proper connections

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

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

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).

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.

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