

SENSORS TRANSMITTERS

Process monitoring



COMPLETE RANGE

Sensors

Transmitters

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

Designed and manufactured in France, KIMO range of transmitters is perfectly suitable for any industry, process, building services, indoor climate, OEM...

KIMO offers many models: from the simplest to the most complete, suitable for any application, with easy configuration and calculation functions. Innovating range: the interchangeable measuring elements enable easy maintenance and on-site calibration.



Refrigeration - Air conditioning

- Mono-function



1 relay
relays

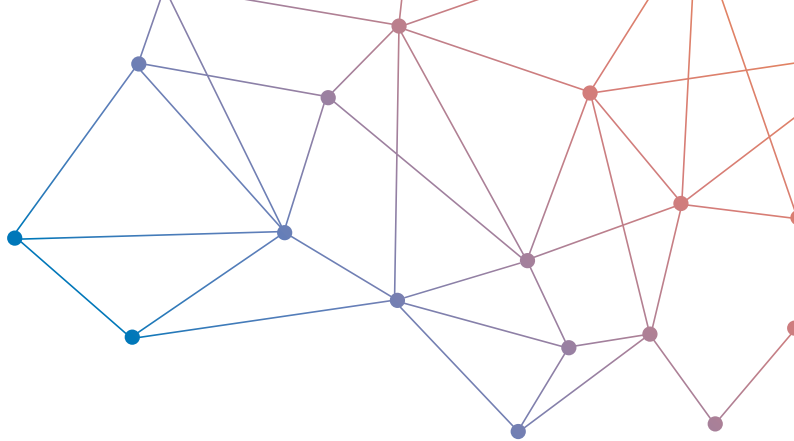


HVAC - Industry - OEM

- Mono-function



1 or 2 analogue
outputs



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Multi-function
Class 210-R



Expert
Class 310

Industry - Laboratories

- Multi-function



2 RCR
relays

3 A
230 Vac

Laboratories - Industry - Clean room

- Multi-function
- 2 or 4 analogue outputs
- Up to 4 RCR relays



Ethernet
communication



MODBUS
RS485

CONFORT

Monostats

Refrigeration - Air conditioning

Temperature / Humidity / Pressure / Air quality

Quick installation and easy to set up, monostats enable to trigger a relay when you reach the predefined threshold and to send this information via the relay on the regulation system or an automaton for example.



Visual and audible alarm



Waterproof ABS housing



RCR relays
3 A
230 Vac



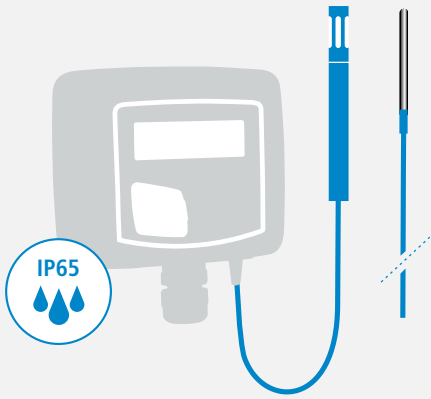
Power supply
24 Vdc/Vac



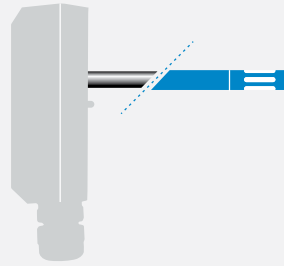
Simplified calibration

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.

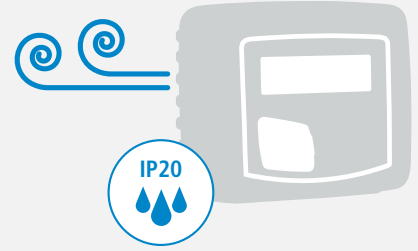
Monostats / Class 110



- Remote probe
ABS or stainless steel



- Duct probe
ABS or stainless steel



- Integrated ambient probe
Perforated housing



Thermostats TST Temperature

- From -100 to +400°C



Hygrostats HST Humidity

- From 5 to 95 %RH
- From -20 to +80°C



CO₂stats CO2ST Air quality

- From 0 to 5,000 ppm



COstats COST CO rate

- From 0 to 500 ppm



Manostats PST Pressure

- From ±100 Pa to ±2,000 mbar

ESSENTIAL

Class 110

Refrigeration - Air conditioning - Industry - OEM

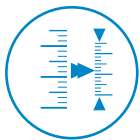
Temperature / Air quality / Light / Solar / Pressure
Atmospheric pressure / Humidity / Air velocity

Covering the whole measuring parameters, this communicating range releases a current or voltage signal.

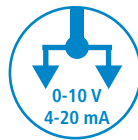
To meet the needs of any type of application, sensitive elements are available as ambient, remote or duct. Analogue outputs are automatically adapted to the configured measuring scale via dip switches on the devices or via LCC-S software.



*CP 111 only



Configurable outputs



1 or 2 analogue outputs



Power supply 24 Vdc/Vac





TH 110
Temperature / Humidity

- From 5 to 95 %RH
- From -20 to +80°C



HM 110
Humidity

- From 5 to 95 %RH
- Remote and ductIP65
- AmbientIP20



CTV 110
Air velocity

- From 0 to 30 m/s
- From 0 to +50°C



Atmospheric pressure (CP 116)

The CP 116 transmitter sensor is characterized by its reliability, high precision and very good long-term stability. It is suitable for the following applications: ventilation and air conditioning systems, systems of piloting dependent on atmospheric pressure, meteorological stations and climatic monitoring.



CP 110
Pressure

- CP 111 : from -100 to +100 Pa with solenoid valve
- CP 112 : from -1,000 to +1,000 Pa
- CP 113 : from -10,000 to +10,000 Pa
- CP 114 : from -500 to +500 mbar
- CP 115 : from -2,000 to +2,000 mbar
- CP 116 : from 800 to 1,100 hPa





TM 50
Temperature

- From -20 to +80°C



TM 110
Temperature

- From -100 to +400°C



CO 110 / CO 112
Air quality

- CO : from 0 to 500 ppm
- CO₂ : from 0 to 5,000 ppm



LR 110
Light

- From 0 to 10,000 lux



Control of photovoltaic
and thermal installations

CR 110
Solar

- From 0 to 1,500 W/m²



LCC-S

OPTION

Configuration software for transmitters

You can select your units, ranges, relays, alarms, time-delays, outputs, channels, setpoints...



 Configure

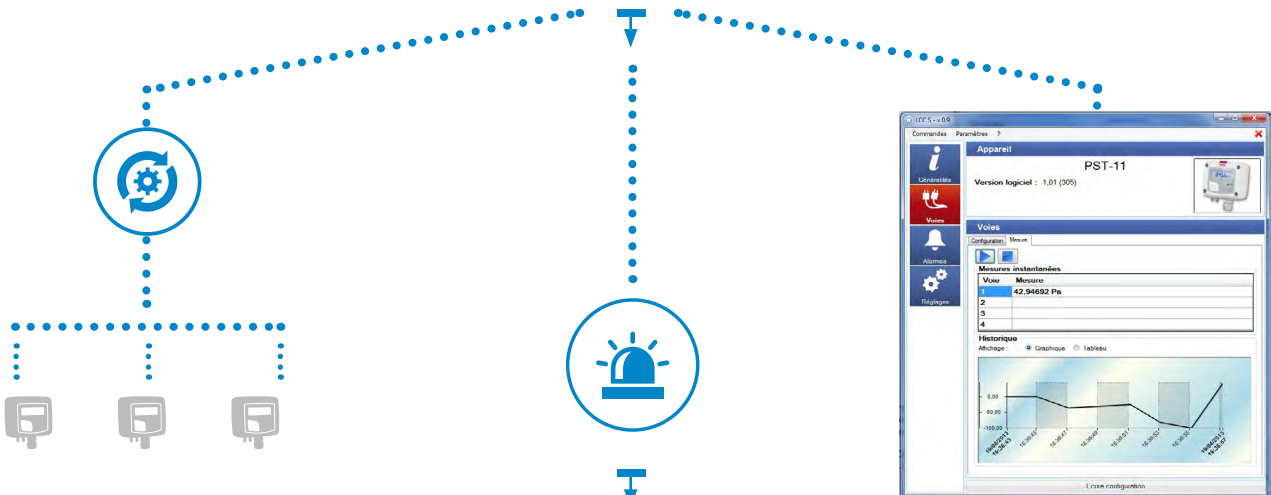
 Record

 Visualise

 Protect

 Alarms

 Duplicate



Load a configuration
Save a configuration and load it into multiple transmitters

Alarm thresholds
Configure inputs and outputs

Real time
Visualisation of measurements

INNOVATION

Front PC connection

This new range has a front side input to allow you to configure the sensor via a PC equipped with the LCC-S software.



Monostats / Class 110 / CPE 310-S

MULTI-FUNCTION

Class 210-R

Industry - Laboratories

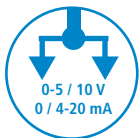
Temperature / Humidity / Pressure
Air quality / Air velocity / Airflow



Supplied with
ADJUSTMENT
certificate

A number of sectors such as medical technology, agrifoods, nuclear, manufacturing, etc. require measuring instruments that measure up to two parameters including combinations of humidity, temperature, CO₂, differential pressure, and air velocity.

Kimo's new 210 series of transmitters now include two relays that allow the instruments to send up to two direct actions to the automatic systems.



2 analogue
outputs



Calculation
functions



Waterproof
ABS housing



2 RCR relays



Power supply
24 Vdc/Vac



Configurable
outputs



CP 210-R
Pressure / Temperature

- From ± 100 Pa to $\pm 10,000$ Pa
- From -100 to $+400^{\circ}\text{C}$
- From 3 to 85 m/s



Control and measurement of air quality

- Minimal global airflow of fresh air
- Respects of the limits
- Atmosphere monitoring
- Ventilation and cleaning up control
- ...

COT 212-R CO₂ / Temperature

- CO₂ : from 0 to 5,000 ppm
- From 0 to +50°C



CTV 210-R Air velocity / Airflow

- From 0 to 30 m/s
- From 0 to +50°C
- From 0 to 99,999 m³/h



TH 210-R Humidity / Temperature

- From 0 to 100 %RH
- From -40 to +180°C



TM 210-R Temperature

- From -100 to +400°C

EXPERT

Class 310

Industry - Laboratories

Pressure / Humidity / Temperature / Air velocity / Airflow
Air quality / Atmospheric pressure



Equipped with a rugged and waterproof ABS housing, the C 310 features a backlit display and a keyboard for configuration in the front face. Multi-parameter and equipped with advanced calculations functions, this multi-function transmitter offers a global reading and delivers precise information on the aerualic and thermal conditions from your process.

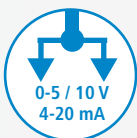
C 310 Multi-function

4 RCR relays input card (option)

1 SPI-2 card input

- From -10,000 to +10,000 Pa
- From 0 to 100 %RH
- From -50 to +180°C
- From -5 to 35 m/s (with vane)
- From 3 to 85 m/s (with Pitot tube)
- From 0 to 99,999 m³/h
- CO : From 0 to 500 ppm
- CO₂ : From 0 to 5,000 ppm
(20,000 ppm on demand)
- From 800 to 1,100 hPa

- SPI2-100 : ±100 Pa
- SPI2-500 : ±500 Pa
- SPI2-1000 : ±1,000 Pa
- SPI2-10000 : ±10,000 Pa
- SPI-ATMO : 800 to 1,100 hPa



2 analogue
outputs

0-5 / 10 V
4-20 mA



4 RCR relays
card (option)



4 visual and
audible alarms



Waterproof
ABS housing



MODBUS
communication



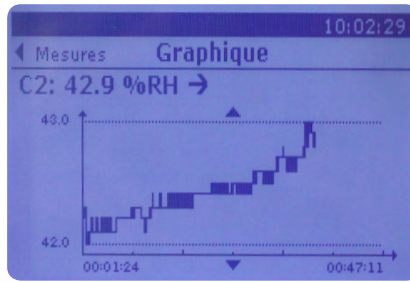
Ethernet
communication

Our range of transmitters can be managed within a Modbus network (RS 485 system).

You can also integrate our transmitters to your existing network.



- UP TO 4 PARAMETERS simultaneously



- HISTORICAL graphics display



Graphical display



Unclip
Clip
Measure



Interchangeable probes

Easy and quick change of measurement element with automatic recognition.

- Temperature
- Humidity
- Vane probe
- Air quality
- Hotwire ...

FLUSH-MOUNT

Class 310

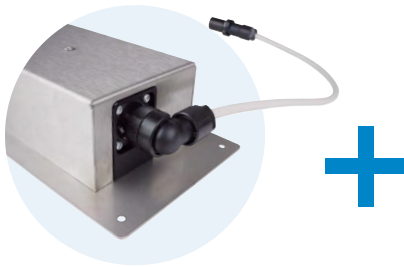
Special clean room

Pa | °C | RH

Alternate display



Supplied with
ADJUSTMENT
certificate



Adapter for probe



CPE 310 S Flush-mounted transmitter

- CPE 310-S: from -100 to +100 Pa
- CPE 311-S: from -1000 to +1000 Pa
- 1 probe input



**Waterproof
stainless steel
housing**



**3 visual and
audible alarms**



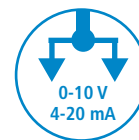
**MODBUS
communication**



**Tenth
Resolution**



**Output
diagnostic**



**3 analogue
outputs**

LARGE DISPLAY

Class 310

Multi-function



CA 310 Large display

- From -10,000 to +10,000 Pa
- From 0 to 100 %RH
- From -50 to +180°C
- From -5 to 35 m/s (with vane)
- From 3 to 85 m/s (with Pitot tube)
- From 0 to 99,999 m³/h
- CO : From 0 to 500 ppm
- CO₂ : From 0 to 5,000 ppm
- From 800 to 1,100 hPa
- From 0 to 10 V
- From 0 to 20 mA

Supplied with
ADJUSTMENT
certificate

1 probe input

1 input for SPI-2 or MVA card
3 RCR relays



Ethernet
communication



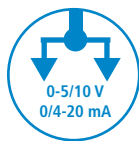
MODBUS
communication



Tenth
resolution

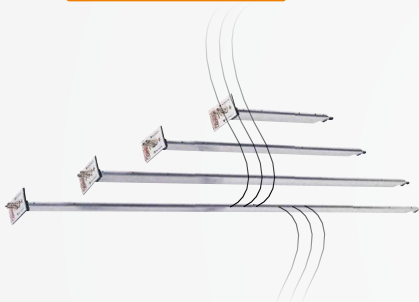


3 visual and
audible alarms

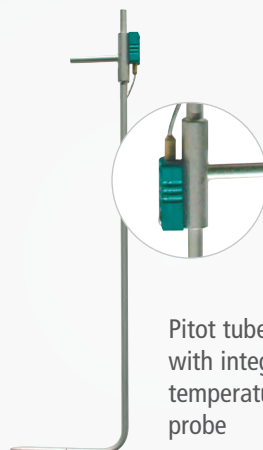


3 analogue
outputs

ACCESSORIES



DEBIMO measuring blades



Pitot tube
with integrated
temperature
probe



SQR3 function
Calculation of air velocity and airflow
from the differential pressure

AKIVISION

Data acquisition system

Refrigeration / Air conditioning / Industry / Tertiary / Laboratories



New synoptic view for a comprehensive real-time of your installation

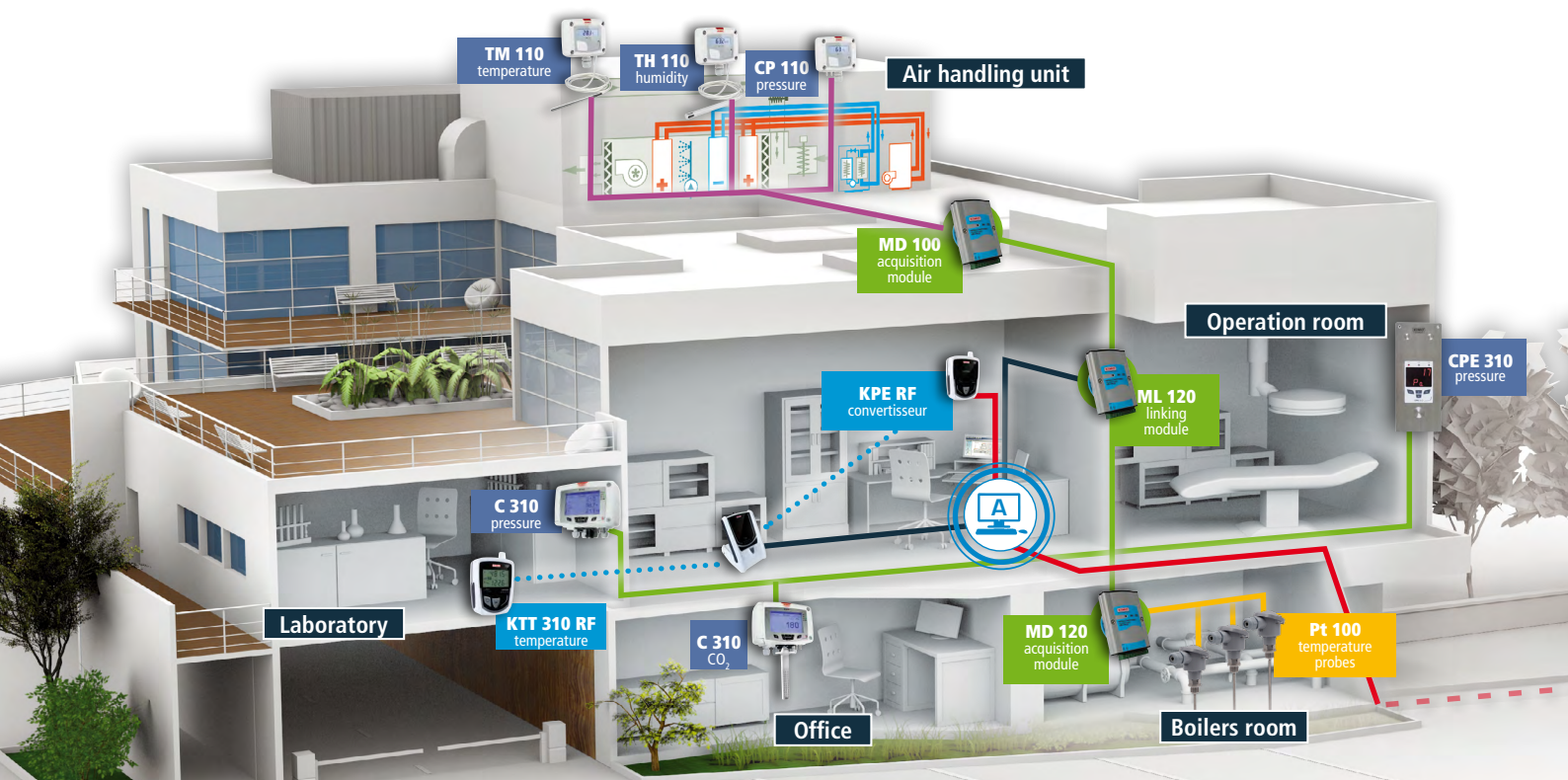
Intuitive interface

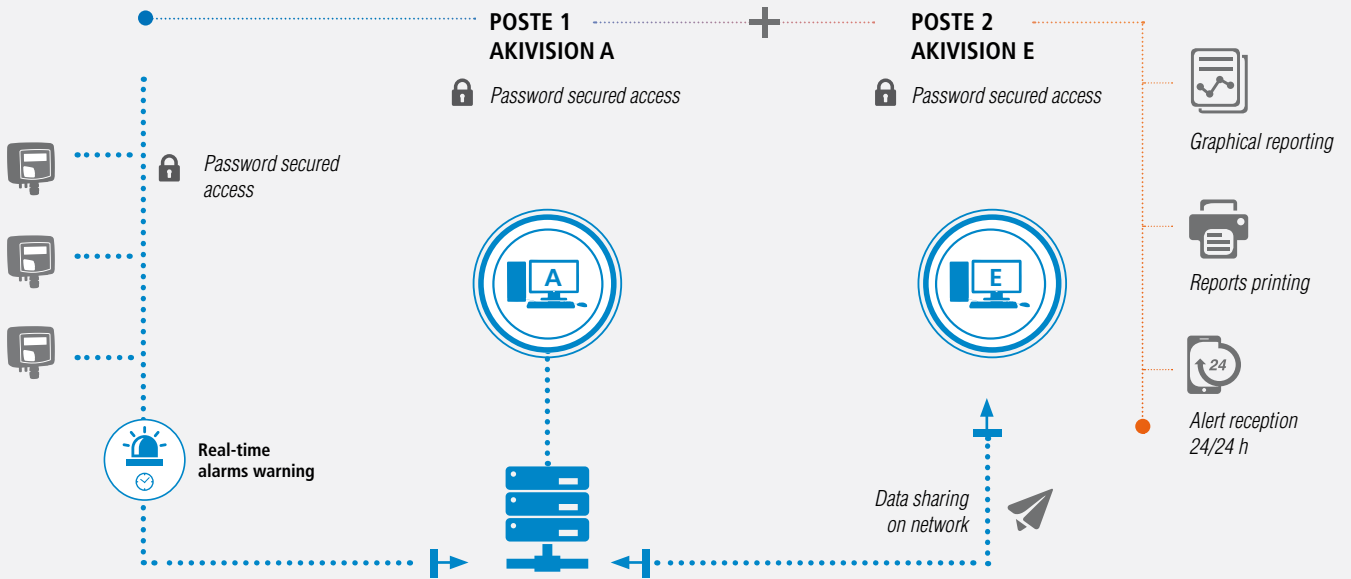


Graphic display from the datasets

New AKIVISION data acquisition system comes to complete current Kimo range of transmitters and was specially developed to monitor air movement conditions in many applications such as service sector, clean rooms...

It is perfectly suitable for process monitoring and control of air.





**MODBUS
RS 485**



**Ethernet
communication**



**Up to
255 devices
over network**

Software A

Acquisition / Visualisation / Data processing

Software E

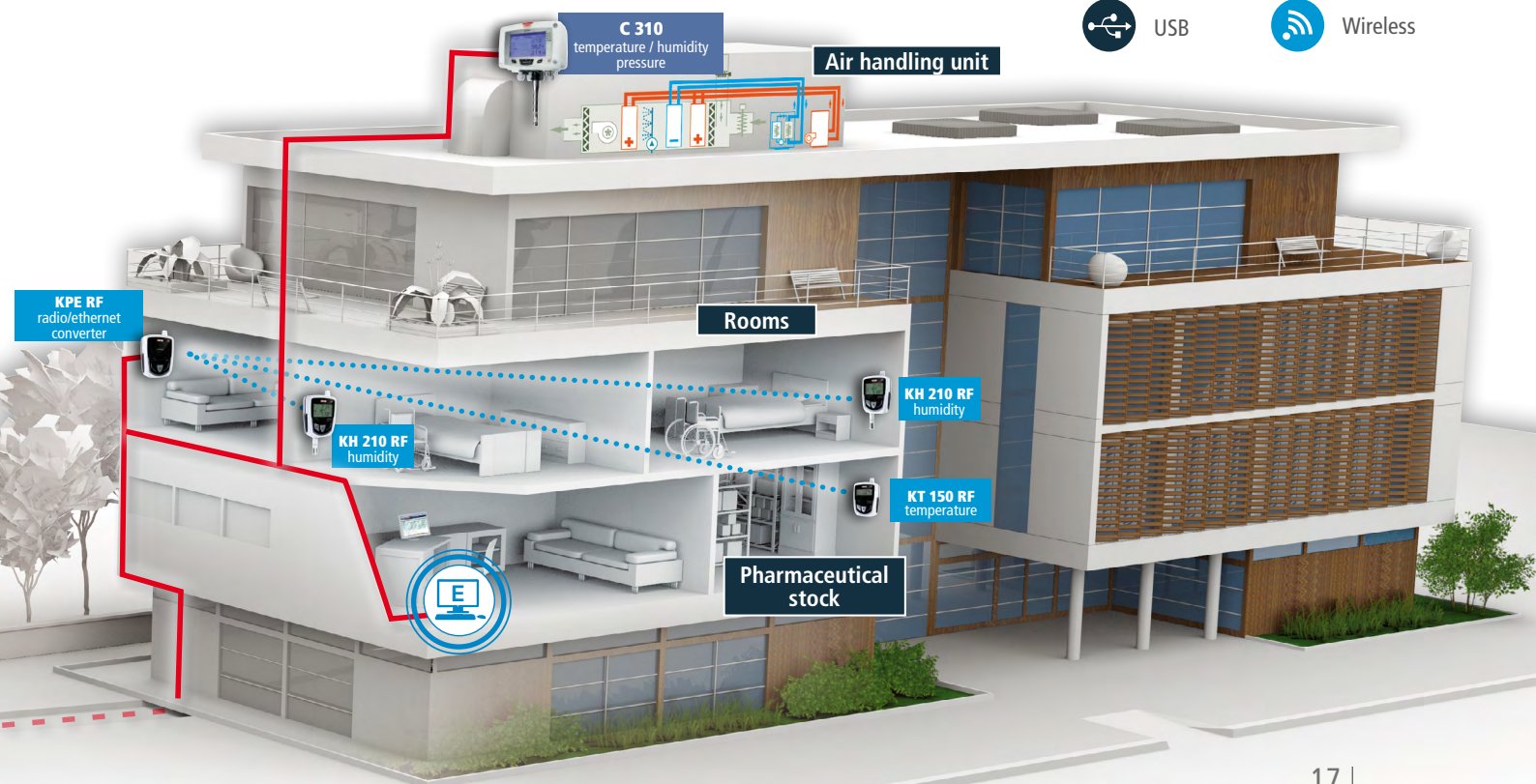
Data processing / Remote lookup

The A software allows you to configure all the sensors and modules from your installation, to record and view all the measurements in real time.

Akivision A and E softwares allow you to view, analyze, operate, print and export all measured values.

Example hospital application

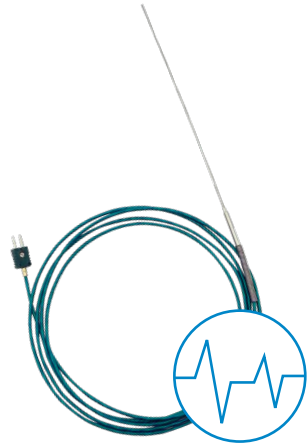
- MODBUS
- Ethernet
- USB
- 4-20 mA
- Pt100
- Wireless



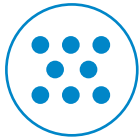
Temperature

probes

Thermocouples / Pt100
Head / Cable / ABS Probes



Measuring range
-200 to +1,150°C



Calibration
-200 to +1,150°C



Wire probes

PVC / PTFE
Glass silk cable

- Stainless steel or Inconel® 600 hose

ABS head

Duct mount / Remote
Ambient probe

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

Connection head

Alu / Noryl / Stainless steel head

- Stainless steel hose

ACCESSORIES



Thermocouple connectors
Thermowell



Mounting brackets
Wire clamp brackets
PVC, silicone, PFA cable
Stainless steel hose (with or without shielding)

COMPARISON



CONFORT

MONOSTATS



ESSENTIAL

CLASS 110



MULTI-FUNCTION

CLASS 210-R



EXPERT

CLASS 310

DEVICES /
SPECIFICATIONS

| | | | | | | |
|-------------------------------|--|--|-----------------|---|--|---|
| Temperature | TST | TM 50 - TM 110 | TM 210-R | C 310 Multi-function Pa %RH °C m/s m³/h ppm hPa | CPE 310-S CPE 311-S Multi-function Pa %RH °C alternate display | CA 310 Multi-function Pa %RH °C m/s m³/h ppm hPa V mA |
| Humidity | HST | HM110 | - | | | |
| Temperature - Humidity | - | TH 110 | TH 210-R | | | |
| Air velocity | - | CTV 110 | - | | | |
| Pressure | PST | CP 111 CP 112 CP 113 CP 114 CP 115 | CP 210-R | | | |
| Atmospheric pressure | - | CP 116 | - | | | |
| Co rate | COST | - | - | | | |
| Air quality | CO2ST | CO 110 - CO 112 | - | | | |
| CO ₂ - Temperature | - | - | COT 212-R | | | |
| Air velocity and airflow | - | - | CTV 210-R | | | |
| Light | - | LR 110 | - | | | |
| Solar | - | CR 110 | - | | | |
| Analogue outputs | - | 1 or 2 | 2 | | | |
| RCR relays | 1 | - | 2 | 4 RCR card (option) | 3 | 3 |
| Visual and audible alarms | 1 | - | - | 4 | 3 | 3 |
| Probe type | Fixed | Fixed | Interchangeable | | | |
| Housing | ABS | ABS | ABS | ABS | Stainless steel | ABS |
| Protection | IP20 - IP65 | IP20 - IP65 | IP65 | IP65 | IP65 | IP63 |
| Software (option) | LCC-S / AKIVISION (A and E) | | | | | |
| Fixation (option) | "1/4 turn" system mounting with wall-mount plate | | | | Flush-mount | Bracket |
| Security | 🔒 Locking system with access code, to secure the installation. | | | | | |
| Standards | The Kimo transmitters comply with the EMC norm. | | | | | |



Ambient probe



Duct probe



Remote probe

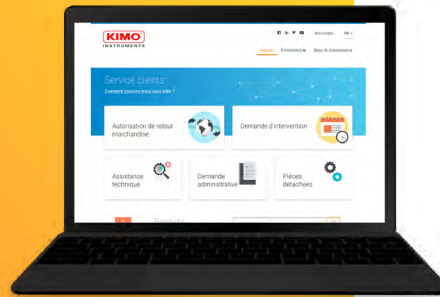


• Wall-mount plates

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>



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).



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
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A member of **sauer mann**