KIMO®
INSTRUMENTS

Sensors
Transmitters

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

European Manufacturer
www.kimo.fr

Sensors
Transmitters

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

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.

All our datasheets
available on www.kimo.fr/sensors

New products

Monostats / Class 110 / Class 210 / Class 310

Simplified calibration
Monostats/Class 110

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.

Front PC connection
Monostats/Class 110

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

Keypad configuration
Class 210

The new class 210 has a keyboard on the front side which allows configuration without modifying the sensor installation.

Perforated housing for **ambient sensors**

Automatic **autozero**

Power supply **LED**

CO/CO_2 sensors

LUX W/m² **Light/solar** transmitters

Atmospheric pressure

Software
LCC-S

LCC-S software allows the configuration of new sensors monostats, class 110, class 210 and class 310.
You can select your units, ranges, relays, alarms, time-delays, outputs, channels, setpoints…

Summary

New products
Monostats p. 04

New products
Class 110 p. 06

New products
Class 210 p. 10

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New products

Monostats

Applications: **Refrigeration - Air conditioning**

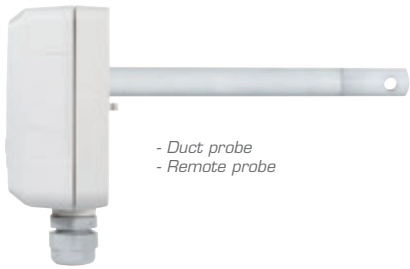
Quick installation and easy to set up, monostats enable to trigger a relay when you reach the predifined treshold and to send this information via the relay on the regulation system or an automaton for example.

RCR
Relay

Waterproof
ABS housing

Power supply
24 Vdc/Vac

Alarm
visual and sound



- Duct probe
- Remote probe

Thermostats TST

TEMPERATURE

Measuring range
From -100 to +400°C

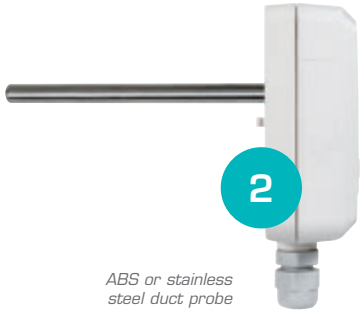
Hygrostats HST

HUMIDITY

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

1

Sensor with remote probe



2

ABS or stainless steel duct probe

3

Perforated housing for integrated ambient probe IP20

Manostats PST

PRESSURE

Measuring range
From ±100 Pa to ±2000 mbar

COstats COST

CO RATE

Measuring range
From 0 to 500 ppm

CO_2stats CO2ST

AIR QUALITY

Measuring range
From 0 to 5000 ppm

New products

Class 110

Applications: **Refrigeration - Air conditioning - Industries - OEM**

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.

1 or 2 analogue outputs

Waterproof ABS housing

Power supply 24 Vdc/Vac

Configurable outputs

AUTOZERO

Differential pressure transmitters

Pressure
CP110
111
112
113
114
115

Atmospheric pressure
CP116

TH 110

TEMPERATURE HUMIDITY

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

HM 110

HUMIDITY

Measuring range
From 5 to 95 %RH

HVAC

CTV 110

AIR VELOCITY

Measuring range
From 0 to 30 m/s
From 0 to +50°C

CP 110

PRESSURE

Measuring range
From ±100 Pa to ±2000 mbar

CP 116

ATMOSPHERIC PRESSURE

Measuring range
From 800 to 1100 hPa

TM 50

TEMPERATURE

Measuring range
From -100 to +400°C

TM 110

TEMPERATURE

Measuring range
From -100 to +400°C

CO 110/CO 112

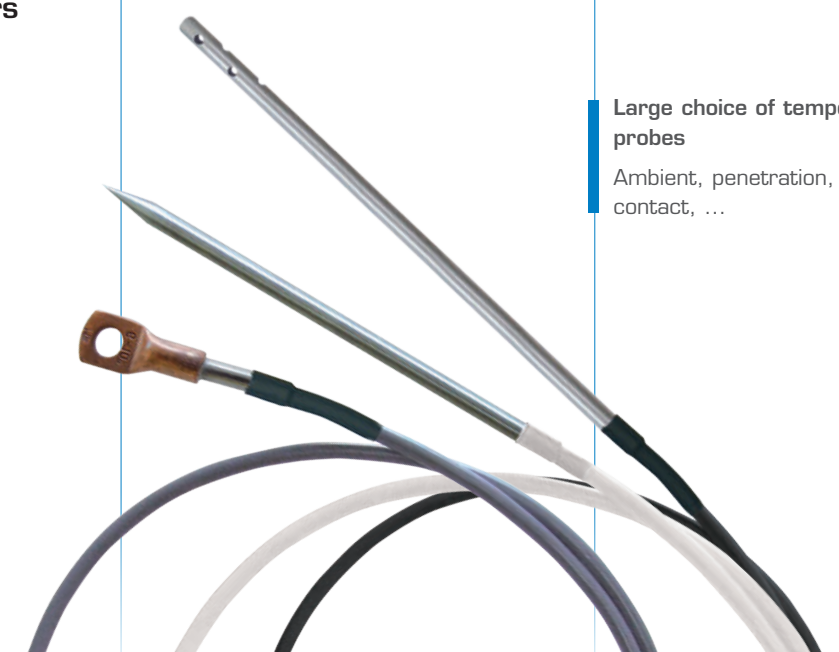
AIR QUALITY

Measuring range
CO: From 0 to 500 ppm
CO_2: From 0 to 5000 ppm

Perforated housing for **ambient sensors**

Duct probe

Remote probe



Large choice of temperature probes

Ambient, penetration, bent, contact, …

ARTIFICIAL ENVIRONMENT

LR 110

LIGHT

Lightning and electrical products manufacturers

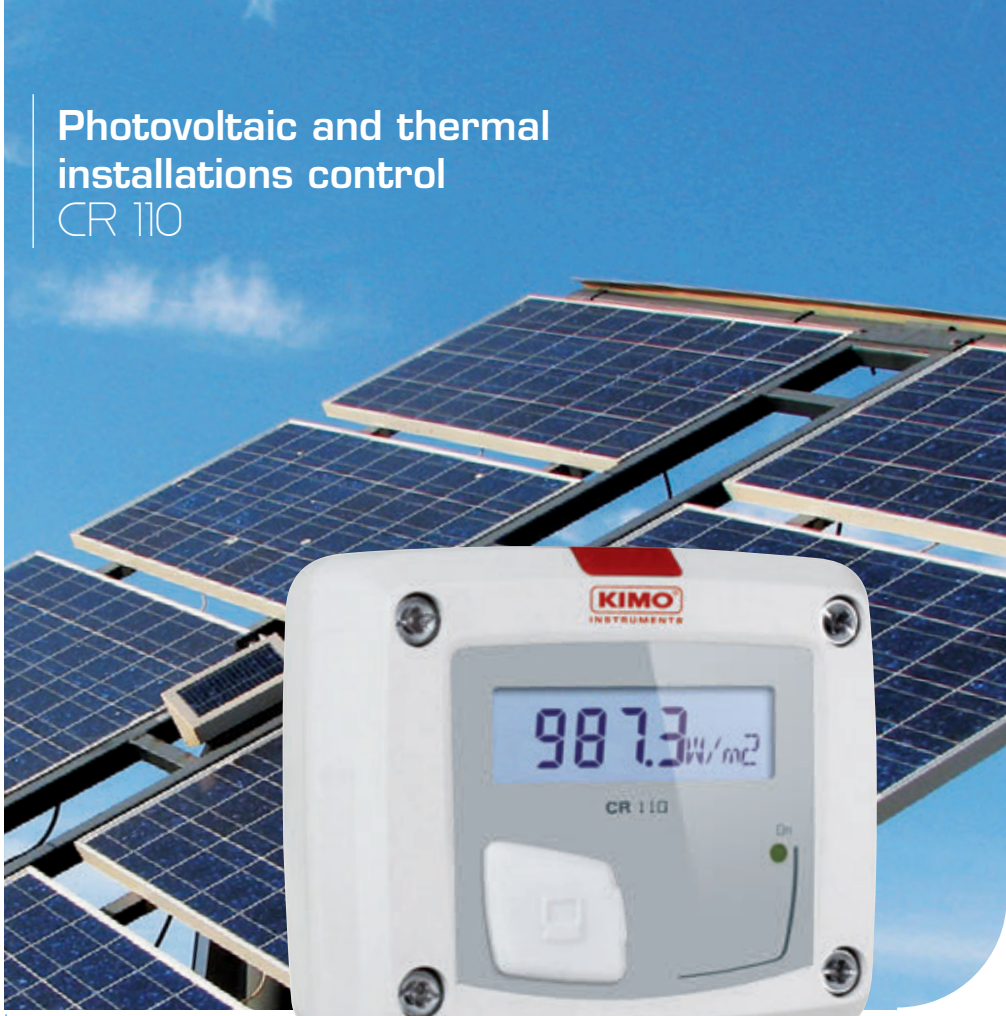
Architecture (office, administration, shop...)

Control, maintenance and visual confort

Food industry and sylviculture

Measuring range
From 0 to 10 000 lux

Photovoltaic and thermal installations control
CR 110



IP65 **Waterproof**
ABS housing

NATURAL ENVIRONMENT

CR 110

SOLAR

Measuring range
From 0 to 1500 W/m²

CR 110 allows to:

- Proceed to sunshine surveys
- Determine the correct power supply which must be used (photovoltaic or thermal)
- Check the installation conformity
- Estimate the energetic power produced

New products

Class 210

Applications: **Industries - Laboratories**

2 analogue outputs

Waterproof ABS housing

Power supply 24 Vdc/Vac - 115/230 Vac

Equipped with airtight and strong ABS housing, these sensors have a large 2-line backlit LCD display, and a keyboard on front face for configuration.
Multi-parameter and provided wtih advanced calculation functions, this range offers a global reading and delivers accurate information on the conditions of your air / thermal process.

Control and measurement of air quality

Minimal global airflow of fresh air

Respects of the limits

Atmosphere monitoring

Ventilation and cleaning up control

...

COT 210/212

CO/CO_2 TEMPERATURE

Measuring range
CO: From 0 to 500 ppm
CO_2: From 0 to 5000 ppm
From -20 to +80°C

CP 210

PRESSURE TEMPERATURE AIR VELOCITY & AIRFLOW

Measuring range
From ±100 Pa
to ±2000 mbar
From -100 to +400°C
From 0 to 100 m/s

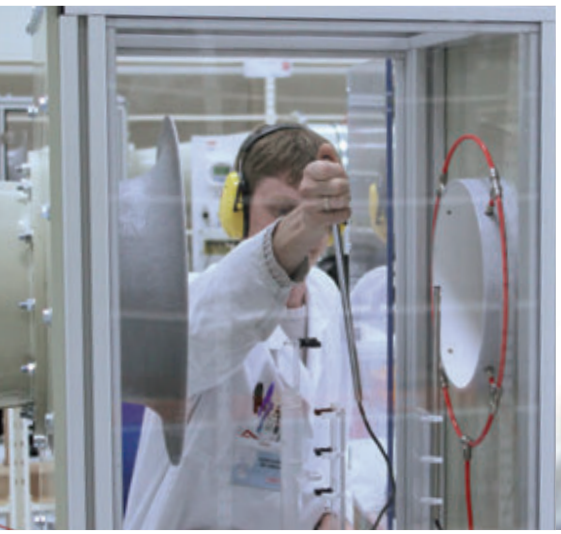
Configurable outputs

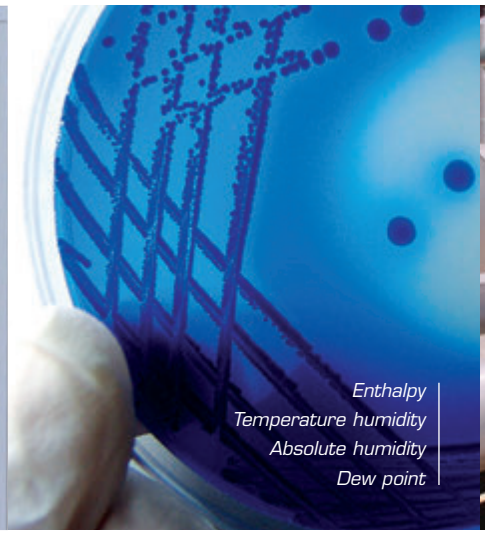
Calculation functions

Password locking

Ambient probe

Remote probes





Enthalpy
Temperature humidity
Absolute humidity
Dew point

CTV 210

AIR VELOCITY & AIRFLOW

Measuring range
From 0 to 30 m/s
From 0 to +50°C

TH 210

HUMIDITY TEMPERATURE

Measuring range
From 5 to 95 %RH
From -40 to +180°C

TM 210

TEMPERATURE

Measuring range
From -100 to +400°C

NEW GENERATION

Class 310 Multifunction

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

4 visual and audible alarms

Graphic display

Software or keypad configuration

With or without display

Easy and quick installation

Waterproof
ABS housing

2 Analogue
Outputs

4 RCR relays
card (option)

Ethernet
Communication

MODBUS
RS 485

ADJUSTMENT
certificate

2 INPUTS
for probes

Measure up to
4 parameters

Interchangeable
Probes

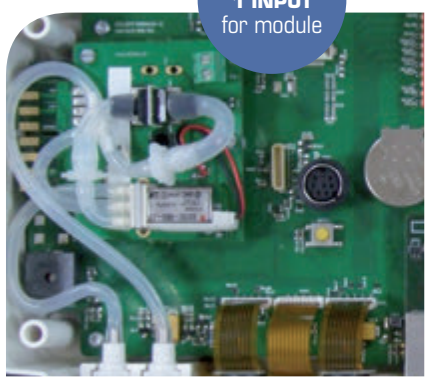
C 310

MULTIFUNCTION

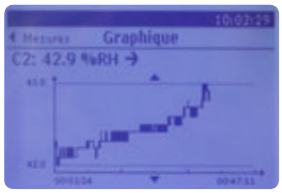
Interchangeable pressure modules SPI-2

SPI2-100 : ±100 Pa
SPI2-500 : ±500 Pa
SPI2-1000 : ±1,000 Pa
SPI2-10000 : ±10,000 Pa
SPI-ATM0 : 800 to 1,100 hPa

1 INPUT
for module



C310 Graphic Display

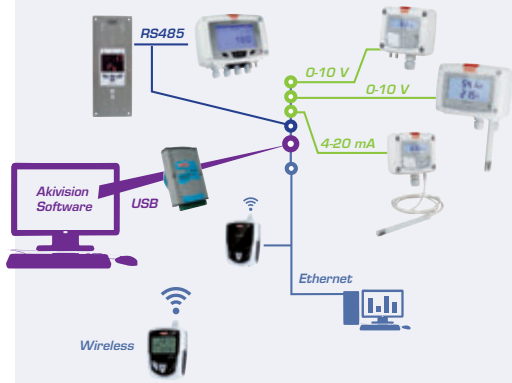


HISTORICAL graphics display

TREND MARKUP

UP TO 4 PARAMETERS simultaneously

Our range of transmitters can be managed within a Modbus network (RS 485 system). You can also integrate our transmitters to your existing network.



MODBUS Network (option)

Ethernet Communication (option)

Configurable analogue outputs

Learn More
See page 16.

Interchangeable Probes

C 310 / CPE 310-S / CA 310

Easy Clip

Unclip - Clip - Measure !

Easy and quick change of measurement element.
Automatic recognition.

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 m^3/h
CO	0 to 500 ppm
	0 to 20.000 on demand
CO_2	0 to 5,000 ppm
Current/Voltage	4-20 mA / 0-10 V

Flush-mount

Multifunction pressure sensor

MODBUS
RS 485

3 audible/visual
alarms

Output
Diagnostic

Tenth
Resolution

3 Analogue
Outputs
0-10 V
4-20 mA

Interface for configuration software and front calibration

CPE 310 S

MULTIFUNCTION

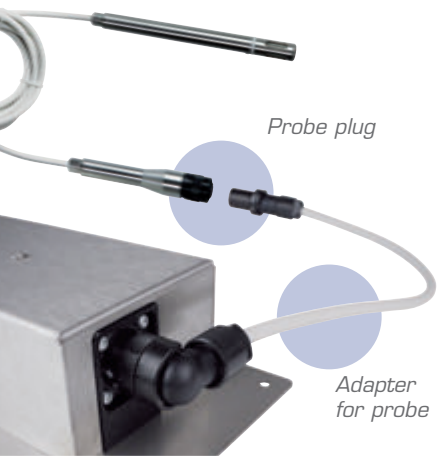
Multifunction flush mount transmitter

Measuring range
-100 to +100 Pa

1 Input for interchangeable probes (see probes page 13)

LCC-S
Configuration software (option)

LCC-S software allows the configuration of new class 310 sensors.
You can select your units, ranges, relays, alarms, time-delays, outputs, channels, set points...



Multifunction sensor

Large display transmitter

CA 310

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

1 Input for interchangeable probes
(see probes page 13)

MULTIFUNCTION

Tenth
Resolution

Ethernet
Communication

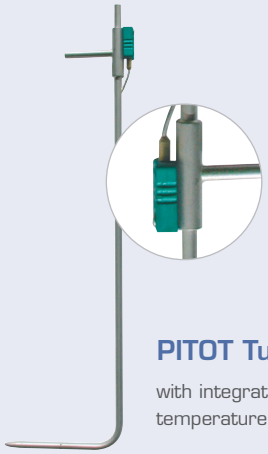
MODBUS
RS 485

ATE 300

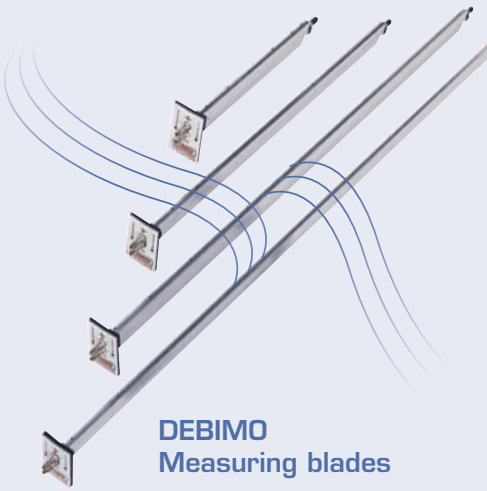
MULTI-CHANNEL DISPLAY

Flush-mount
Display 3 parameters alternatively.
RS485 Modbus

Airflow
accessories



PITOT Tube
with integrated
temperature probe



DEBIMO
Measuring blades

SQR3 function

Calculation of air velocity and airflow from the differential pressure.

Data acquisition System

Applications: **Refrigeration - Air conditioning - Industries - Offices**

***New AKIVISION** data acquisition system comes to complete current KIMO range of transmitters and was specially developped to monitor air movement conditions in many applications such as service sector, cleanrooms... It is perfectly suitable for process monitoring and control of air.*

NEW SOFTWARE

INTUITIVE Synoptic DISPLAY

- Up to **255 devices over network**
- **Real-time** Alarm
- **Ethernet** Communication
- **Wireless datalogger** Kistock RF compliant
- **MODBUS** RS 485

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

Graphic display from the datasets

All our ranges of sensors, dataloggers and temperature sensors are compatible.

AKIVISION SOFTWARE

CONFIGURATION & ACQUISITION

Configure all transmitters and modules of your installation, record and display measurements in real time.

Configuration of instruments and modules

User access management

Configuration and display of acquisition

VISUALIZATION & OPERATION

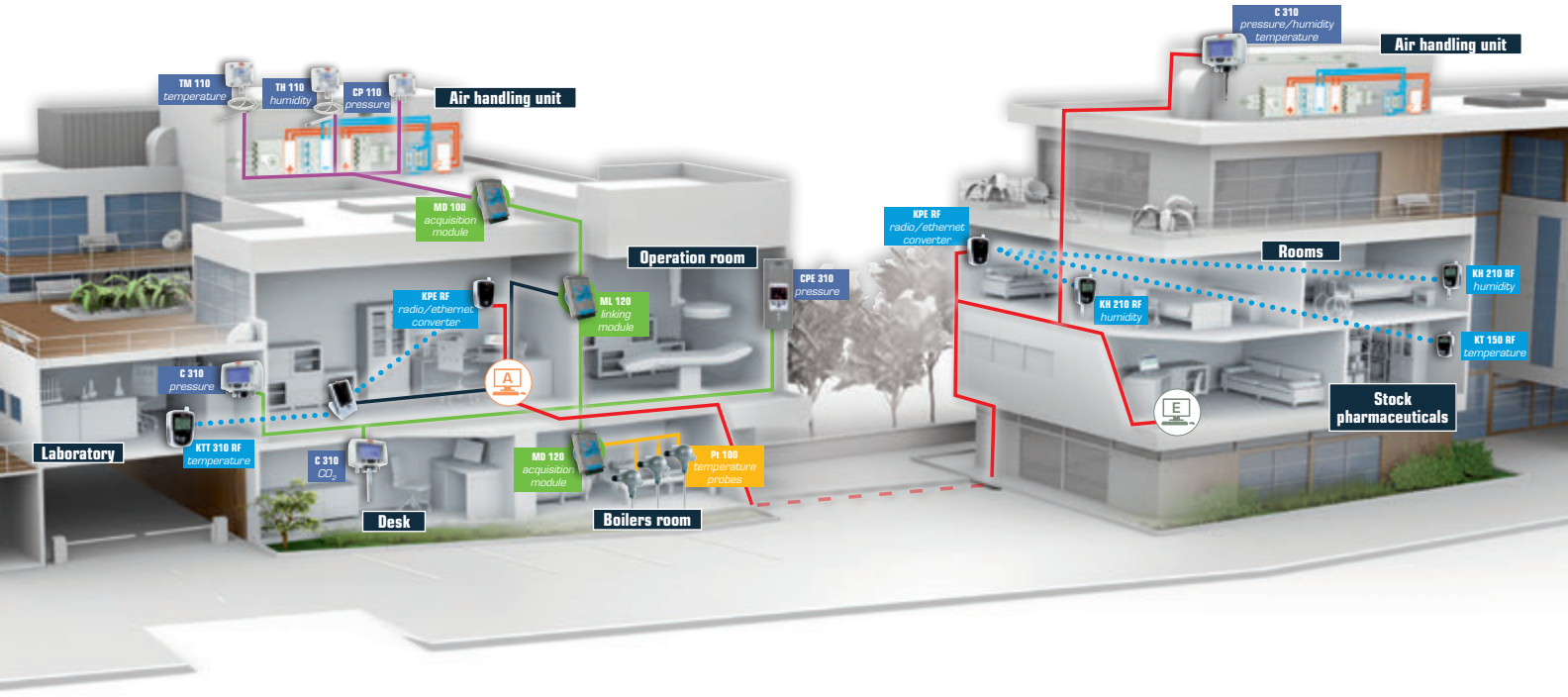
Process, consult, analyze and print all measured data.

Data processing and exportation

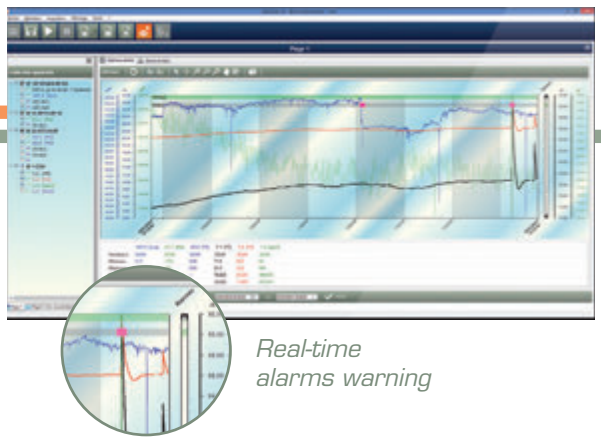
Alarms log

Remote lookup and display of your records

SETUP EXAMPLE
hospital application

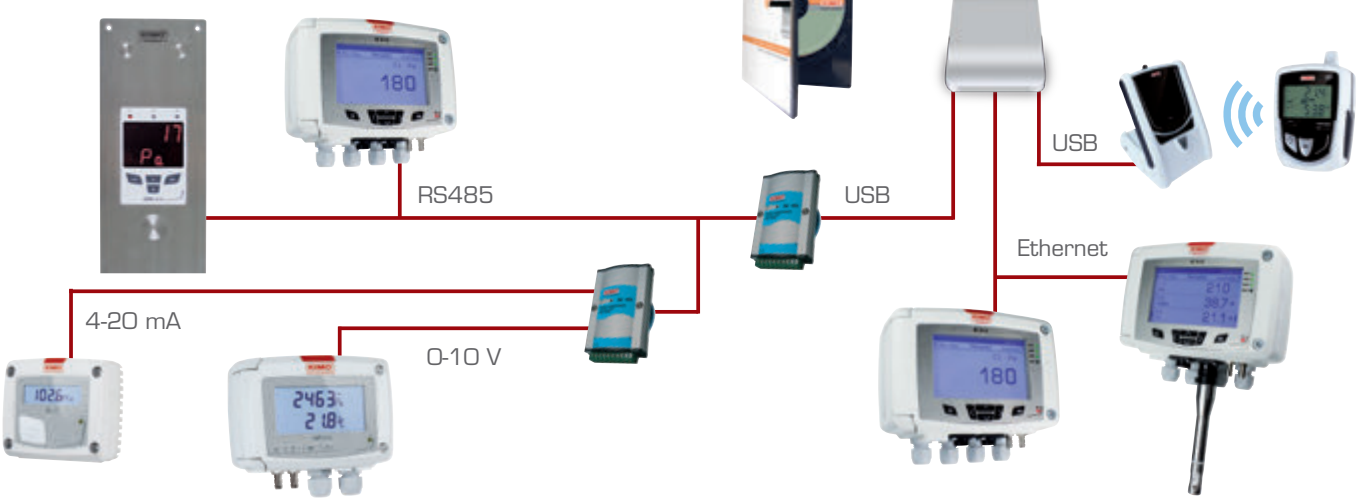


4-20 mA | Wireless | Pt100 | USB | MODBUS | Ethernet



Real-time alarms warning

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



Temperature probes

Applications: **Air conditioning - Industries - Food industry**

Thermocouple K, J, T, N probes

Pt 100 / Pt 1000 probes

NTC probes

Your need, your probe

Your application is specific, we manufacture your customized probe.
CONTACT US !

Connection **head**

Alu / Noryl® / Stainless steel head

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

Single pair or multipair

Pipe contact
Interchangeable probe system
Aggressive application
Heat-resisting steel protector

Wire **probes**

Output DIN connector
With fixing fitting
With cable

STANDARD or CUSTOM-MADE

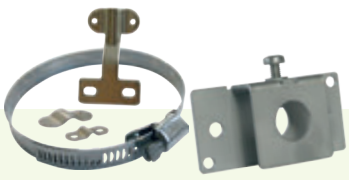
PVC / Silicon / Teflon® / Glass silk cable

Stainless steel hose

Wire mounting: 2, 3, 4, 6 wires

Single pair or multipair

OPTIONS



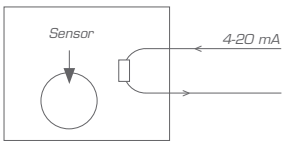
Accessories

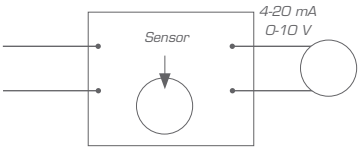
- Thermocouple connectors (K, J, T, N...)
- Snap-on connectors for thermocouple
- Connector panel for snap-on connectors
- Converters
- Mounting brackets
- Stainless steel thermowells
- Watertight connections

Useful information

Range **Sensors - Transmitters**

Power supply





Transmitters with Passive loop

Principle: the transmitter is supplied with a continuous voltage => we measure the current used by the transmitter. This current varies between 4 and 20 mA, proportionally to the measured parameter (pressure, temperature, relative humidity...).

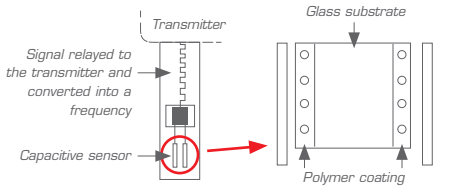
Active transmitter

Principle: the transmitter provides a current (4-20 mA) or a voltage (0-10 V) loop. It can work in either direct (DC) or alternative current (AC).The power supply connected to the transmitter enables it to generate a current of 4-20 mA or a voltage of 0-10 V proportional to the measured parameter.

Humidity transmitters

Capacitive humidity sensor

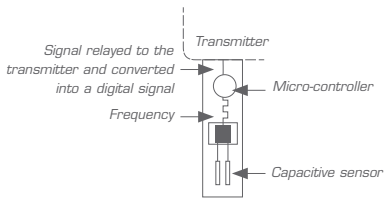
Principle: the dielectric constant of the humidity sensor varies according to the ambient humidity. This information is then relayed to the transmitter and converted into a digital value. The measuring signal is not affected by the ambient pressure.



Digital humidity sensor (class 300)

Principle: the dielectric constant of the humidity sensor varies according to the ambient humidity. This information is then relayed by the micro-controller to the transmitter and converted into a digital value.

Smart-Pro System



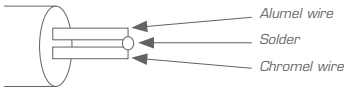
Temperature transmitters

Pt100

Principle: a Pt100 sensor is a resistance, with positive temperature coefficient, which varies according to the temperature. The value of the resistance varies according to the increase of the temperature.
For 0°C ≈ 100 Ω
For 100°C ≈ 138,5 Ω

Thermocouple

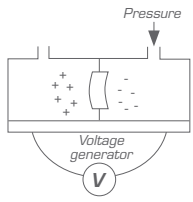
Principle: a thermocouple works thanks to voltage drop across dissimilar metals which are placed in contact. This voltage is proportional to the measured temperature.



Pressure transmitters

Principle

A pressure transmitter (piezoresistive type) makes a voltage proportional to the pressure applied on the transmitter.



Security

Secured installation

Locking system with access code, to secure the installation.

Electromagnetical

The KIMO transmitters comply with the EMC norm.

CE

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on www.kimo.fr

General Catalogue

Combustion gas Analysers

Dataloggers

HVAC Portable Instruments

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KIMO represented worldwide

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