

KIMO[®]

INSTRUMENTS



Sensors Transmitters

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



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



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/CO₂
sensors



LUX
W/m² Light/solar
transmitters



Atmospheric
pressure

Software LCC-S

LCC-S software allows the configuration of new sensors monostats, class 110 and class 210.

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



Summary

New products

Monostats

p. 04

New products

Class 110

p. 06

New products

Class 210

p. 10

Class 300

p. 12

Display

p. 16

Akivision

p. 17

Probes

p. 18

Useful info

p. 19

New products

Monostats

Applications: **Refrigeration - Air conditioning**

Quick installation and easy to set up, monostats enable to trigger a relay when you reach the predefined 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



Thermostats TST

TEMPERATURE

Measuring range
From -100 to +400°C



- Duct probe
- Remote probe

Hygrostats HST

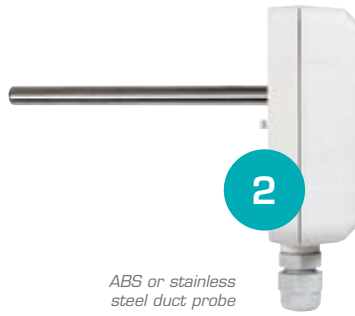
HUMIDITY

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



CO₂stats 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



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
CO₂: From 0 to 5000 ppm



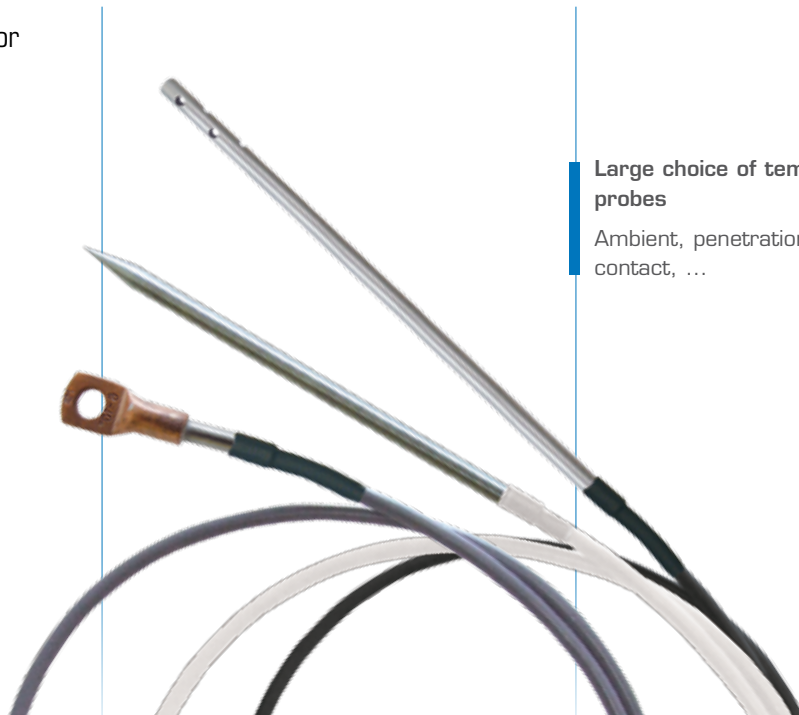
Perforated housing for
ambient sensors



Duct
probe



Remote
probe



Large choice of temperature
probes

Ambient, penetration, bent,
contact, ...



✓
**ARTIFICIAL
ENVIRONMENT**



LR 110

LIGHT

- Lighting and electrical products manufacturers
- Architecture (office, administration, shop...)
- Control, maintenance and visual confort
- Food industry and silviculture

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**

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 with advanced calculation functions, this range offers a global reading and delivers accurate information on the conditions of your air / thermal process.



2 analogue outputs



Waterproof ABS housing



Power supply
24 Vdc/Vac - 115/230 Vac



Control and measure of air quality

Minimal global airflow of fresh air

Respects of the limits

Atmosphere monitoring

Ventilation and cleaning up control

...



COT 210/212

CO/CO₂ TEMPERATURE

Measuring range

CO: From 0 to 500 ppm

CO₂: From 0 to 5000 ppm

From -20 to +80°C



CP 210

PRESSURE TEMPERATURE

Measuring range

From ±100 Pa to ±2000 mbar

From -100 to +400°C



Configurable
outputs



Calculation
functions

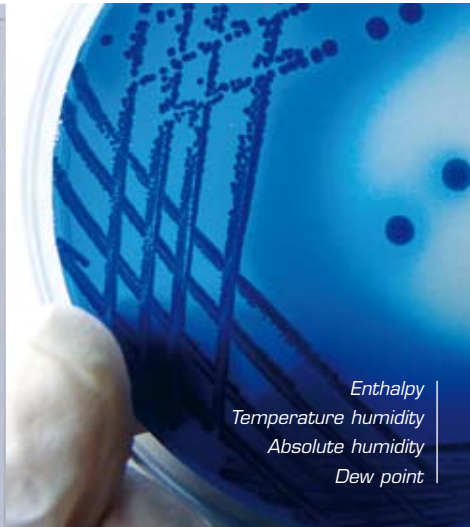
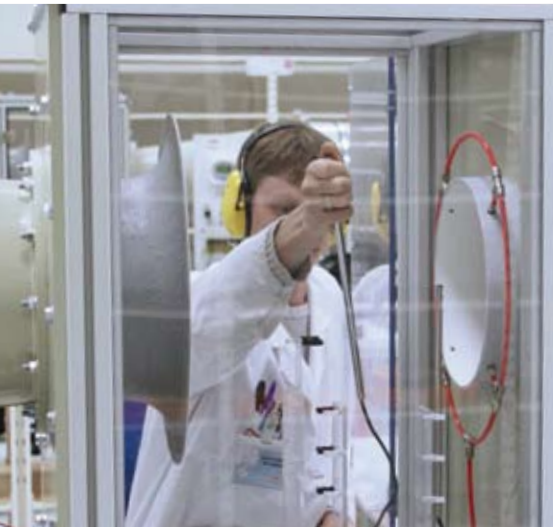


Password
locking



1 Ambient probe

2 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

Class 300

Applications: **Industries - Laboratories**

Visual alarm LED

Digital display

Software or keypad configuration

Easy and fast installation

With or without display



2 RCR
relays



2 analogue
outputs



Waterproof
ABS or Alu housing



Power supply
24 Vdc/Vac - 115/230 Vac



Calculation
functions



CTV 310

AIR VELOCITY & AIRFLOW

Measuring range

From 0 to 30 m/s

From 0 to +50°C



Highly sensitive environment



THA300
Large display

TH 300 / THA 300

TEMPERATURE HUMIDITY

Measuring range

From 0 to 100 %RH
From -40 to +180°C

Temperature - Wet bulb temperature - Enthalpy - Relative humidity - Absolute humidity - Dew point calculation

Smart-Pro



System

Interchangeable probes
stainless steel or PC

Unclip - Clip - Measure!

Easy and fast change of measurement element.
Automatic recognition



- PTFE sintered tip
- Protective plastic head
- Stainless steel perforated head
- Stainless steel sintered tip



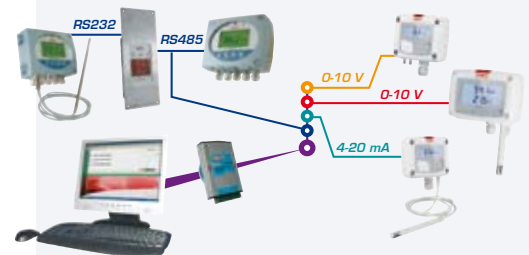
Advantages of class 300

MODBUS network

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

[Learn more](#)

P17

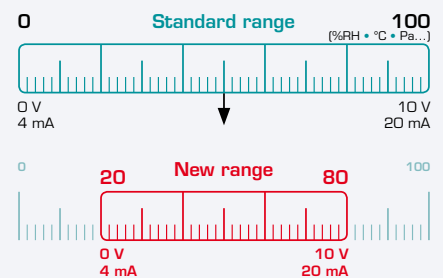


RS232 communication

Via the RS232 connection, our transmitters can display 1 or 2 parameters that are measured by other KIMO Class 300 transmitters.

Configurable analogue outputs

Pre-configured or configured by yourself: the outputs are automatically adjusted to the new range.





Alternative display

Via the RS 232 connection, the CPE 300 can display alternatively, in addition to the pressure, other parameters such as temperature and humidity for a TH 300 for example.



CP 300



Brushed or white lacquered stainless steel housing

CPE 300

PRESSURE

Measuring range
±10 000 Pa

Measuring range
±1000 Pa



Front calibration

Enables you to adjust and calibrate your transmitters directly on site or in laboratories.



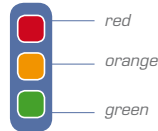


✓
**90dB
ALARM**

Display: 50 x 190 mm

CPA 300

**REINFORCED
VISUAL
SIGNING**



IP63
☔

Display: 75 x 190 mm

CPA ZC

PRESSURE

Measuring range
±10 000 Pa

Measuring range
From -100 to +100 Pa
From -1000 to +1000 mmH₂O



LCC300

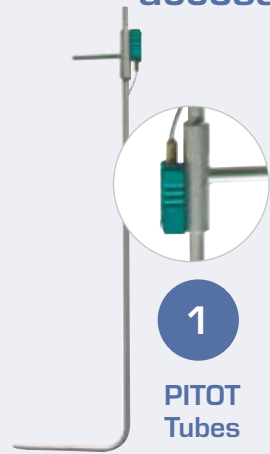
Configuration software
with RS 232 cable
(option)



REMOTE CONTROLLER

for configuration (option)

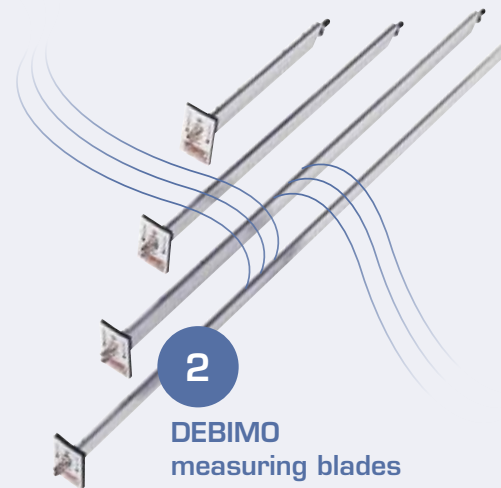
Airflow
accessories



1

**PITOT
Tubes**

with integrated
temperature probe



2

**DEBIMO
measuring blades**



3

**SQR2 function
CP 300**

Calculation of air velocity and airflow from
the differential pressure.

Display

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

Easy and fast installation

Configuration by infrared remote control

Digital communication

MODBUS system

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

Pre-programmed measuring units:

- Pressure
- Airflow
- Air velocity
- Temperature
- Humidity
- ...



Analogue
inputs



Waterproof
ABS housing



Power supply
24 Vdc/Vac - 230 Vac



Digital
communication



MODBUS
RS485



ATT 300

LARGE DISPLAY

Display

From -9 999 to +99 999

Display of the reading:
5 matrix digits

Display of units:
4 digits / 14 segments

Compatibility of current/voltage inputs

Can work with any current or voltage input of any transmitter: pressure, humidity, temperature, airflow, air velocity...



ATE 300

MULTI-CHANNEL FLUSH-MOUNT

Display

From -999 to +9 999

Display of the reading:
4 digits / 7 segments

Display of units:
4 digits / 14 segments

Alternative display

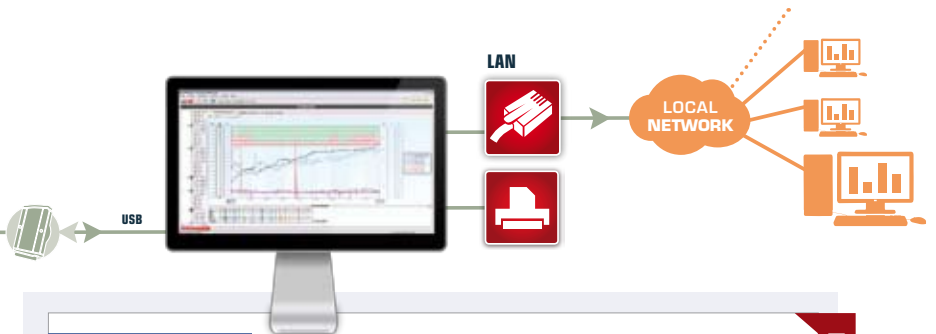
Alternating display of 1 to 3 parameters (humidity, temperature and pressure).

Data acquisition system

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



AKIVISION data acquisition system was specially developed to monitor air movement conditions. AKIVISION data acquisition system also meets with requirements of many fields such as food-processing industry, service and industry.



Akivision CFR

AKIVISION CFR is the key software for all users who require traceability, as per «21 CFR part 11» norm. Security and integrity of data are guaranteed; no possibility to modify or tamper with data.

NEW



**SENSORS
TRANSMITTERS**
pressure - temperature
humidity - air velocity & airflow
air quality - solar - light



TEMPERATURE PROBES
Pt 100 - Pt 1000
Thermocouple K, J, T, N - NTC



DISPLAYS
multi-parameters



MODULES

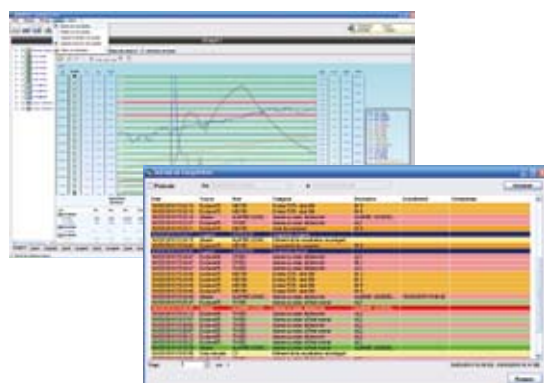
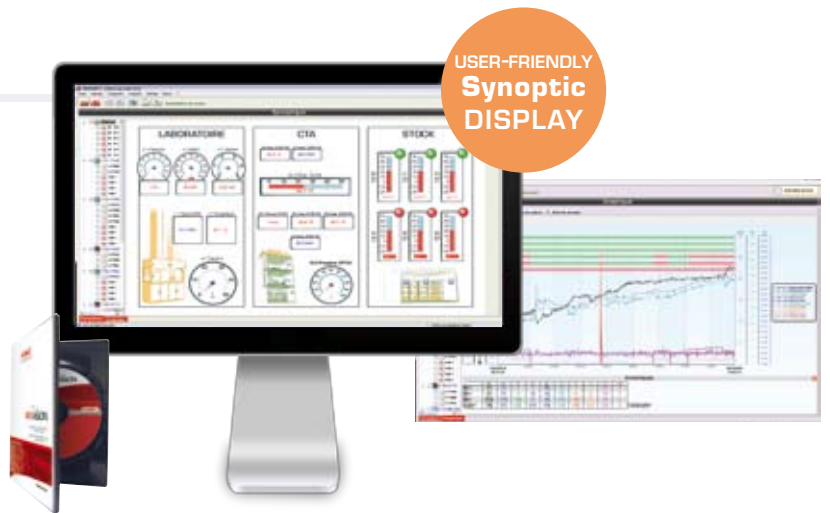
Akivision A

Version A AKIVISION software enables to configure all transmitters and modules of your installation, and to record and display measurements in real time.

Configuration of instruments and modules

User access management

Configuration and display of acquisition



Akivision E

Version E AKIVISION software easily enables to process, consult, analyze and print all measured data.

Data processing and exportation

Alarms log

Remote lookup and display of your records

Temperature probes

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

Thermocouple K, J, T, N probes

Pt 100 / Pt 1000 probes

NTC probes



Connection head

Alu / Noryl® / Stainless steel head

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

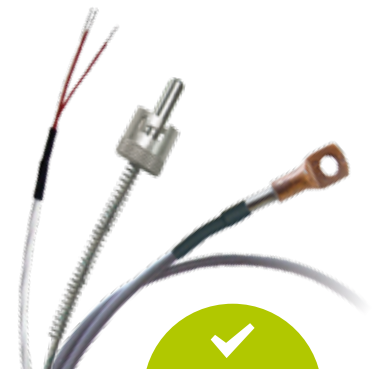
Single pair or multipair

Pipe contact

Interchangeable probe system

Aggressive application

Heat-resisting steel protector



Output DIN connector
With fixing fitting
With cable

Wire probes

PVC / Silicon / Teflon® / Glass silk cable

Stainless steel hose

Wire mounting: 2, 3, 4, 6 wires

Single pair or multipair

Your need, your probe

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

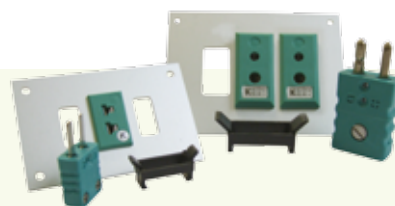


Accessories

- 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

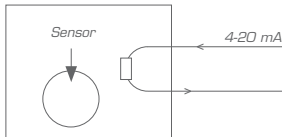


OPTIONS

Useful information

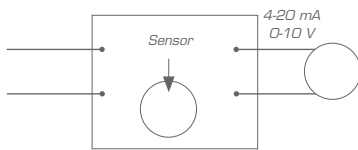
Range **Sensors - Transmitters**

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...).



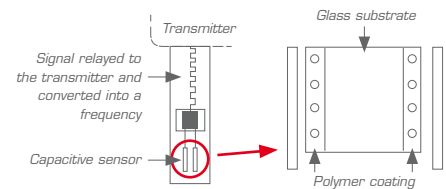
Active transmitter

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.



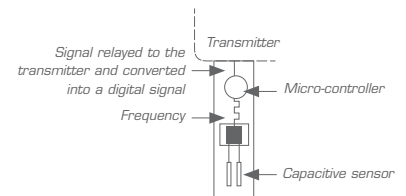
Digital humidity sensor (class 300)

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

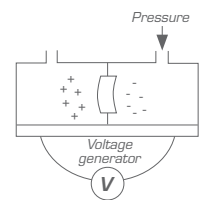
For 100°C ≈ 138,5 Ω



Pressure transmitters

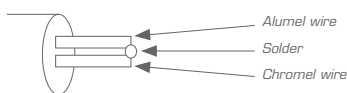
Principle

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



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.



Security

Secured installation

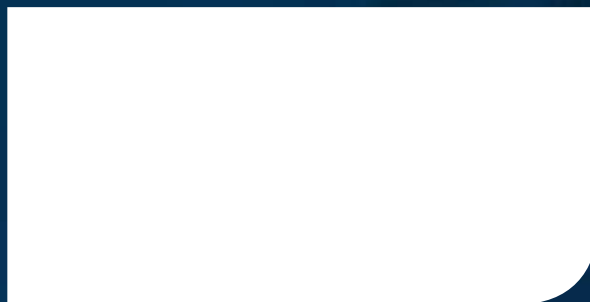
Locking system with access code, to secure the installation.

Electromagnetical

The KIMO transmitters comply with the EMC norm.



Distributed by:



www.kimo.fr



KIMO - Export Department
Boulevard de Beaubourg - BP 48
Emerainville - F-77312 MARNE LA VALLEE Cedex 2 - France
Tel.: +33 1 60 06 69 25 - Fax: +33 1 60 06 69 29
Email: export@kimo.fr