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

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
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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.

### 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
**Manostats PST**

**PRESSURE**

Measuring range

From ±100 Pa to ±2000 mbar

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**COstats COST**

**CO RATE**

Measuring range

From 0 to 500 ppm

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**CO₂stats CO2ST**

**AIR QUALITY**

Measuring range

From 0 to 5000 ppm
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.

Applications: Refrigeration - Air conditioning - Industries - OEM

- 1 or 2 analogue outputs
- IP65 ABS housing
- Power supply 24 Vdc/Vac
- Configurable outputs
**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

**CP 110**
**PRESSURE**
Measuring range
From ±100 Pa to ±2000 mbar

**CP 116**
**ATMOSPHERIC PRESSURE**
Measuring range
From 800 to 1100 hPa

**CTV 110**
**AIR VELOCITY**
Measuring range
From 0 to 30 m/s
From 0 to +50°C
** 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, …
LR 110
LIGHT

Lightning and electrical products manufacturers
Architecture (office, administration, shop...)
Control, maintenance and visual comfort
Food industry and silviculture

Measuring range
From 0 to 10 000 lux

CR 110
SOLAR

Photovoltaic and thermal installations control
CR 110

Waterproof
ABS housing

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
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.

**Class 210**

Applications: Industries - Laboratories

**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
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

CTV 310

AIR VELOCITY & AIRFLOW

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

- Waterproof ABS or Alu housing
- Power supply 24 Vdc/Vac - 115/230 Vac
- Calculation functions
- 2 RCR relays
- 2 analogue outputs
- 0-10 V / 4-20 mA

CTV 310

Measuring range
- Indoor, CTV 310
- Outdoor, CTV 310-W

Measuring system
- K type
- Platinum resistance

CTV 310-W

IP65

CTV 310

CTV 310-W

Measuring system
- K type
- Platinum resistance

CTV 310-W

Measuring range
- Indoor, CTV 310-W
- Outdoor, CTV 310-W

Measuring system
- K type
- Platinum resistance

Highly sensitive environment
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.

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

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
CPE 300

Measuring range
±10 000 Pa

CPE 300

Measuring range
±1000 Pa

Brushed or white lacquered stainless steel housing

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.

Front calibration
Enables you to adjust and calibrate your transmitters directly on site or in laboratories.
Calculation of air velocity and airflow from the differential pressure.

**CPA 300**

**Measuring range**

±10 000 Pa

**Display:** 50 x 190 mm

**Remote Controller**

LCC300

Configuration software with RS 232 cable (option)

**CPA ZC**

**Measuring range**

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

**Display:** 75 x 190 mm

**IP63**

**PITOT Tubes**

with integrated temperature probe

**REINFORCED VISUAL SIGNING**

red
orange
green

**DEBIMO measuring blades**

**Alarms**

- 90dB
- Red
- Orange
- Green

**SQR2 function**

CP 300

Calculation of air velocity and airflow from the differential pressure.
Our range of transmitters can be managed within a Modbus network (RS485 system). You can also integrate our transmitters to your existing network.

**MODBUS system**

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

**Easy and fast installation**

**Configuration by infrared remote control**

**Digital communication**

**Pre-programmed measuring units:**

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

**ATT 300**

**Display**

- From -999 to +9999
- 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**

**Display**

- From -999 to +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).
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.

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**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

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**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

Wire probes

PVC / Silicon / Teflon® / Glass silk cable
Stainless steel hose
Wire mounting: 2, 3, 4, 6 wires
Single pair or multipair

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

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

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.