HVAC Measuring Instruments

General catalogue
Export 2012 - 2013

Pressure / Temperature / Humidity / Air velocity / Airflow / Air quality / Gas analysis / Sound level
New product

Combustion
Gas Analysers

KIGAZ 100/150

Interchangeable sensors
$O_2 / CO-H_2$

Sensors protection
with pump auto-stop

Data measurement
print out

Protective cover for all models
Class 100, 150, 200 & 300

KIGAZ 200

- Interchangeable sensors: $O_2$, $CO-H_2$, $NO$, $CH_4$
- CO sensor protection via solenoid valve
- Data measurement print out
- Autozero directly in the gas flue

Check of DHW (domestic hot water) 2 thermocouple channels

KIGAZ 300

- Interchangeable sensors: $O_2$, $CO-H_2$, $NO$, $CH_4$, $NO_2$, $SO_2$
- Vocal help
- CO dilution
- Autozero directly in the gas flue
- Integrated water trap

High accuracy draft measurement
Airflow measurement of aspiration pump
Portable Instruments

New generation of portable instruments

- Interchangeable modules
- Wireless and Smart+ probes
- Joystick and metal coated keypad
- Data storage and wireless PC interface
- Ergonomic and user-friendly

Class 100 monofunction
Class 200 multiprobe
Class 300 multifunction

Pressure - Humidity - Temperature - Air velocity - Airflow - Tachometry

www.kimo.fr
Class 100 & 200

The + of class 200

- **Wireless probes**
  - Wireless connection

- **Smart+ probes**
  - Automatically recognized by the instrument when connected

- **Interchangeable modules**
  - Several measuring ranges with one instrument

- **8,000 measurement points**
  - PC interface

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**Modules**

1. Climatic conditions
2. Thermocouple
3. Pressure
4. Current/Voltage

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**Air quality**

**AQ 100/200**

- CO : 0 to 500 ppm
- CO₂ : 0 to 5,000 ppm
- -20 to +80°C
- 5 to 95 %RH
- 800 to 1,100 hPa

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**Manometers**

**MP 100/115/130/200**

- -10,000 to +10,000 Pa
- -2,000 to +2,000 mbar
- -1,000 to +1,000 mmH₂O
- CO : 0 to 500 ppm
- Special gas network sealing and atmospheric pressure

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**Anemometers**

**LV 100/130 - VT 100/200**

- Ø14, Ø70, Ø100 mm vane probes
- 0.15 to 30 m/s
- -20 to +80°C
- 0 to 99,999 m³/h
- Hotwire probe
# Hygrometers

<table>
<thead>
<tr>
<th>HD 100/200</th>
<th>HD 150</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 to 98 %RH</td>
<td>Special food industry</td>
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<tr>
<td>-40 to +180°C</td>
<td>Waterproof cover</td>
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<tr>
<td>-50 to +80°C&lt;sub&gt;td&lt;/sub&gt;</td>
<td>5 to 95 %RH</td>
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<tr>
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<td>-20 to +70°C</td>
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## Accessories

1. Data processing software
2. Protective cover
3. Aluminium transport case
4. Salt solutions
5. Soft transport case
6. Special gas network kit

## Tachometer

<table>
<thead>
<tr>
<th>CT 100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optical: 60 to 60,000 rpm</td>
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<tr>
<td>Contact: 30 to 20,000 rpm</td>
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</tbody>
</table>

+ www.kimo.fr
AMI Multifunction

Temperature
Humidity
Pressure
Air velocity
Airflow

- Storage of up to 12,000 measurement points
- Evolutive and accurate
- Wireless and Smart+ probes
- Interchangeable modules
- Large colour graphic display

Manometer
- -10,000 to +10,000 Pa, -2,000 to +2,000 mbar.
- 2 to 100 m/s and 0 to 99,999 m³/h.

Thermometer
- -50 to +250°C.
- K: -200 to +1,300°C, J: -100 to +750°C,
  T: -200 to +400°C.

Thermo-hygrometer
- 3 to 98 %RH and -40 to +180°C.

Vane thermo-anemometer Ø14, Ø70, Ø100 mm
- 0.25 to 35 m/s.
- 0 to 99,999 m³/h.

Hotwire thermo-anemometer / Omnidirectional probe
- 0.15 to 30 m/s.
- 0 to 99,999 m³/h.

Tachometer
- 60 to 60,000 rpm and 30 to 20,000 rpm.

Climatic conditions
- -20 to +80°C, 5 to 95 %RH and 800 to 1,100 hPa.

Multifunction
- 0.15 to 30 m/s, 5 to 95 %RH and -20 to 80°C.

Current/voltage
- 0 to 2.5 V, 0 to 10 V and 0 to 4-20 mA.

Air quality
- CO: 0 to 500 ppm, CO₂: 0 to 5,000 ppm,
  -20 to +80°C and 5 to 95 %RH.
Airflow meter & Pitot Tubes

A solution for airflow commissioning & balancing

DBM 610

From 40 to 3500 m³/h or 24 to 2060 cfm
Simultaneous display of airflow and temperature

Quick and simple hood change
4 other hoods are available as options:

- 720x720 mm
- 720x1320 mm
- 420x1520 mm
- 1020x1020 mm

Thermo-anemometer functions with Pitot tube

Check air volume of your diffusers and vents

Pitot Tubes
With or without temperature compensation
20 sizes from 100 to 3,000 mm

Airflow blades
DEBIMO
Size from 100 to 3,000 mm

Airflow cones
K25/35/75/85/120/150
For hotwire and vane anemometers
To measure direct airflow in fans and HVAC systems

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Sound level meters

**DB 100/200/300**

Class 1 and 2 sound level meters as per international standards
20 to 137 dB
Frequency weighting A, C, Z

Luxmeters

**LX 100/200**

Light measurement
0.1 to 200,000 lux
0.01 to 18,585 fc
Data processing software

Solarimeters

**CR 100 - SL 100/200**

Portable or fixed installation
To control photovoltaic and thermal installations
1 to 1,300 W/m²

Noise dosimeters

**DS 200/300**

For the measurement of noise exposure at workstation
Detection and peak counting:
135 dB - 137 dB - 140 dB
Daily sound exposure level: L_{eq,d}
Data processing software
Temperature

Thermometers

Class 200 - TM 200
-200 to +1,300°C
-2 Pt 100 inputs
-4 thermocouple inputs
-8,000 measurement points

Class 100
TN 100/TR 100/TK 100
1 or 2 inputs for probes
NTC, Pt 100,
Thermocouple K, J, T, S
-200 to +1,760°C

Class 150
TN 150/TR 150/TK 150
Special food industry
Waterproof cover
1 input for probe
Thermocouple K, J, T, S
NTC, Pt 1000
-200 to +1,760°C

Infrared
KIRAY 100/200/300
Temperature control of surfaces: burning hot, dangerous or difficult to access
-50 to +1,850°C
**Temperature Probes**

**Standard or custom-made probes**
- Thermocouple, NTC, Pt 100, Pt 1000
- Probes with connection head
- Probes with cable
- Probes with ABS head

**Wire probes**
- PVC/Silicone/Teflon®/Glass silk cable
  - Stainless steel hose
  - Wire mounting: 2, 3, 4 wires (single pair or multipair)

**Connection head**
- Alu/Noryl/Stainless steel head
  - Stainless steel, heat resisting steel or mineral insulated sheath, Alard coating...
  - Single pair or multipair

**ABS head**
- Duct mount, remote or ambient probe
  - Pt 100, 0-10 V, 4-20 mA

**Accessories**
- Converters/transmitters
- Thermowell
- Thermocouple connectors
- Brackets and support wall fixing
- Adjustable ring
- PVC, silicone, Teflon® cable
- Stainless steel hose (with or without shielding)
Sensors

Transmitters

Industry, service, food industry

- For air processing
- DIP switch and software configuration
- Power supply: 18-30 Vdc, 24 Vac/Vdc or 230/115 Vac
- Outputs: 4-20 mA or 0-10 V
## Monostats

**PST/HST/TST**

- 1 RCR relay
- -500/+1,000 Pa to -1000/+2,000 mbar
- 0 to 100 %RH
- -100 to +400°C

## Class 50

**CP 50/CM 50/CM 50**

- -5,000 to +10,000 Pa
- 0 to 100 %RH
- 20 to +110°C

## Class 100

**CP100/CTV100/CTV100/CTV100**

- 0/+100 Pa to -1,000/+2,000 mbar
- 0 to 100 %RH
- -50 to +400°C
- 0 to 30 m/s

## Class 200

**Sensors**

**CTV 210/TH 200/CP 200**

- Configuration via software or keypad
- Advanced calculation functions
- RS232 output
- 0-1 m/s to 0-30 m/s
- 0 to 100 %RH
- -40 to +180°C
- 0/+100 Pa to -2,000/+2,000 mbar

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**SQR2 option**

Connected to DEBIMO measuring blades, with SQR2 function, CP200 can control air velocity and airflow in a duct, from differential pressure.
**Class 300**

**Sensors**

*TH 300/CP 300/CTV 310*

- 0/+10 Pa to -10,000/+10,000 Pa
- 0-1 m/s to 0-30 m/s
- 0 to 100 %RH
- -40 to +180°C

**The + of class 300**

- Configuration via keypad, remote control or software
- Interchangeable measurement sensors
- Advanced calculation functions
- Display 4 parameters simultaneously
- RS232 and RS485 communication (Modbus system)
- Output: 4-20 mA or 0-10 V

**Displays**

**Large display**

*ATT 300*

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

**Multi-channel**

*Flush-mount ATE 300*

Display 3 parameters
Can be flush-mounted or wall mounted

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**www.kimo.fr**
Sensors transmitters

Flush-mount

Pressure transmitter
CPE 300
Special for clean room
Front calibration
RS485
0/+10 Pa to -1,000/+1,000 Pa

Data acquisition system

Akivision / Akivision 21CFR
CONFIGURE / DISPLAY / PROCESS / EXPORT DATA
Easy setup, efficient monitoring of air movement condition, clean and cold rooms, test benches...
Wireless Dataloggers

KISTOCK RF
- Measuring, recording and data processing
- Remote configuration
- Storage of up to 20,000 measurement points
- Up to 100 dataloggers in network

KIMO exclusivity
Pressure datalogger
KP 110-RF / KP 111-RF
-1,000 to +1,000 Pa
-10,000 to +10,000 Pa

New product
1 or 2-line display or without display

Temperature - Humidity - Pressure - Current - Voltage - Impulse
Wireless dataloggers

Class 100
KT 110-RF/KT 150-RF/KP 110-RF

- Up to 1 input for external probe
-40 to +70°C
0 to 20 mA / 0 to 10 V
-1,000 Pa to +1,000 Pa
-10,000 Pa to +10,000 Pa

Class 200
KH 210-RF / KTU 210-RF

- Up to 2 inputs for external probes
Standard or remote probe
-40 to +180°C / 0 to 100 %RH
0 to 20 mA / 0 to 10 V
0 to 20 A / 0 to 600 A

Class 300
KTR 310-RF / KTT 310-RF

- Up to 2 inputs for external probes
Pt 100 remote probe or
Thermocouple K, J, T, S
-200 to +1,760°C
0 to 20 mA / 0 to 10 V

Data processing software
KILOG RF

- Configure
- Measure/record
- Download
- Process/save
- Real-time monitoring
- Up to 100 dataloggers in network

Accessories

1. Large choice of temperature and hygrometry probes
2. Data collector for mobile data transfer
3. Communication base
4. Alarm box
5. Ammeter clamps
KISTOCK
• Measuring, recording and data processing
• Measurement of 1 to 5 parameters simultaneously
• Storage of up to 100,000 measurement points
• User-friendly configuration with KILOG software
• With or without 1 or 2-line display

Dataloggers

1 or 2-line display
or without display

HVAC
* KH 110/210 - KT 110/210
* KTT 310
Up to 4 inputs for external probes
* NTC or K, J, T thermocouple
  -200 to +1,000°C
  5 to 95 %RH
  0 to 10,000 lux

Laboratory
* KTH 350 - KTR 350
Up to 2 inputs for external probes
* Pt 100 external probes
  -100 to +400°C
  0 to 100 %RH

Food industry
* KT 150/250 - KH 250
Up to 4 inputs for external probes
  -40 to +120°C
  5 to 95 %RH
  0 to 10,000 lux

* KT 20 G, L, T
  -40 to +125°C
  Memory: 8,192 points

Data processing software
* KILOG / KILOG 21CFR
Configuration, data download and
data processing
Manometers

Liquid column manometers

- Inclined or vertical
- Slight variations measurement in differential pressure of air or neutral gases
- Air treatment industry, clean rooms...

Vertical

0-100 mmH₂O to 0-2.6 bar
Units: mbar, Pa, DaPa...

Inclined

0-5 to 0-80 mmH₂O
Units: Pa, DaPa...

ECM

0-10 to 300 mmH₂O
Manual adjustable setpoints

To fit any installation with proper connections:
- Liquid for manometer
- Tubes, junctions
- Pressure connections, wall-crossing connection...