

PORTABLE INSTRUMENTS

HVAC & Industry



Portable instruments

HVAC

Temperature / Humidity / Pressure / Air velocity / Airflow / Air quality
Gas detection / Light / Tachometry



Class 50

- 1-line display
- Integrated probes
- Supplied with adjusting certificate and soft case



Class 60/110

- 2-line backlit display
- Remote probes
- Adjustable automatic shut-off
- Supplied with calibration certificate and soft case with handle



Summary

| | | | | | |
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| Multi-function | 06 | Air velocity | 12 | Services & maintenance | 19 |
| Data processing software | 08 | Humidity / CO / CO ₂ | 14 | Infrared temperature | 20 |
| Airflow | 09 | Temperature | 16 | Gas detection | 21 |
| Pressure | 10 | Temperature probes | 18 | Tachometry | 21 |



IP54
ABS housing
Integrated protection



**Wireless
Probes**



AMI 310

- Measure all parameters
- Colour display
- Wired and wireless remote probes
- Interchangeable modules
- Lithium-ion battery
- User expandable memory
- Adjustable automatic shut-off
- Optional data processing software
- Supplied with calibration certificate and ABS transport case

Class 210

- Black & white graphical display
- Wired and wireless remote probes
- Interchangeable modules
- Lithium-ion battery
- Adjustable automatic shut-off
- Optional data processing software
- Supplied with calibration certificate and soft case with handle



**Interchangeable
Probes & Modules**



**Data processing
Software (option)**



Illuminance 22
Solar power 23

New features

Multi-function portables 210/310



Designed for the field

New portable, multi-function instruments are designed for ease of use in the field. An overmoulding made of elastomere protects the instrument, guarantees shockproofing and is comfortable to hold.

The internal memory of 1,000 datasets of 20,000 measuring points allows you to record all your measurements.



**Elastomere
Overmoulding**

Ease of use

With a large, graphic, color display (AMI 310) or black and white display (Class 210), the new multi-function portable instruments are user-friendly:

- 10-key keypad
- graphic and intuitive interface
- built-in magnet system
- built-in probe holder.



**Graphical
Wide screen**

New features

Multi-function portables 210/310

Nonstop measurements

This new generation of instruments has an interchangeable and rechargeable Li-ion battery. Class 210 models have 48h battery life, and AMI 310 has 16h battery life.



**Large
Autonomy**



Scalable instruments

With the different measuring modules (coming in option), the instruments can meet your technical requirements.

Modules: pressure, 4-thermocouple channels, climatic conditions, U coefficient.



**Interchangeable
Probes & Modules**



Interchangeable probes

The new probes utilise a mini-Din connecting cable which is compatible with all probes. KIMO has designed a new series of interchangeable probes including rotating vane and telescopic hotwire.



**Multi-function
Button**



Multi-function

AMI 310



AMI 310 is a multi-probe instrument which can measure up to 6 parameters simultaneously.



Wireless Probes



Data processing Software



Interchangeable Probes & Modules



Micro-SD Card



Graphical Display



Color Wide screen

Measuring ranges

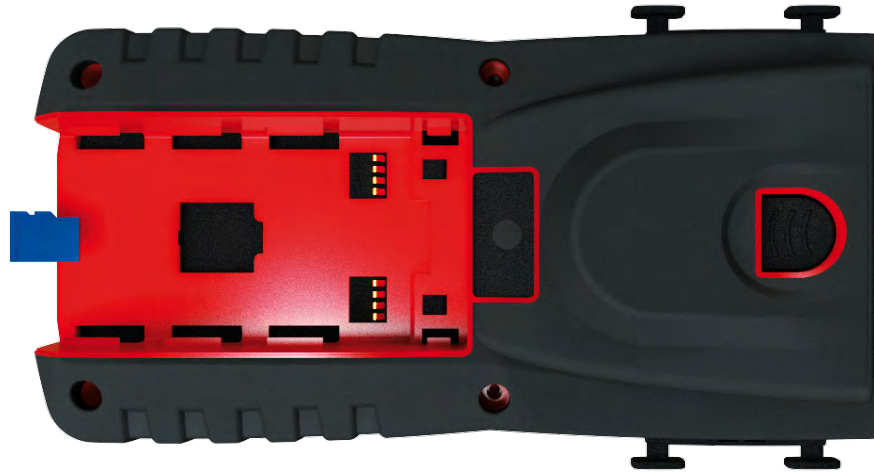
- ± 500 Pa / $\pm 2,500$ Pa / $\pm 10,000$ Pa
- ± 500 mbar / $\pm 2,000$ mbar
- Thermocouple: -200 to $+1,760^\circ\text{C}$
- Pt 100: -200 to $+600^\circ\text{C}$
- Humidity: 3 to 98 %RH
- CO: 0 à 500 ppm
- CO₂: 0 à 5,000 ppm
- Air velocity: -5 to 35 m/s (with vane)
3 to 85 m/s (with Pitot tube)
- Airflow: 0 to 99,999 m³/h
- Gas leak detection: 0 to 10,000 ppm
- Tachometry: 30 to 60,000 rpm



Expandable memory

Internal memory of 1,000 datasets of 20,000 measuring points.

AMI310 has a built-in location for a micro-SD memory card (supplied with the instrument)



Adapt your AMI 310

All our Smart 2014 probes and modules are compatible with AMI310 multi-function instrument.

You can either choose the kits in our product range or customize your own kit with probes and modules according to your needs.

Probes & modules available

- Temperature
- Hygrometry
- Vanes & Hotwires
- CO / CO₂
- Gas detection
- Tachometry



Modules

- Pressure
- 4 channels thermocouple
- Climatic conditions
- U coefficient

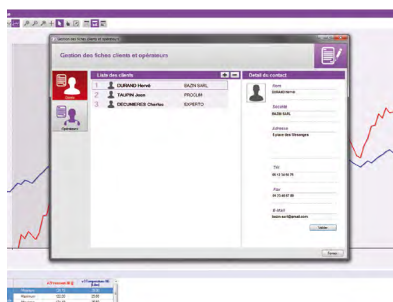
Data processing software

Datalogger



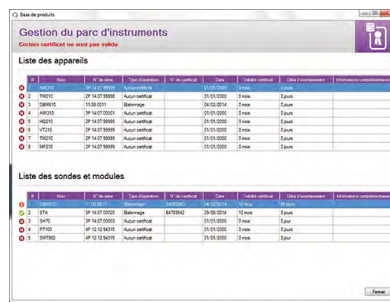
Instruments configuration

Configure your operators, clients and sites.



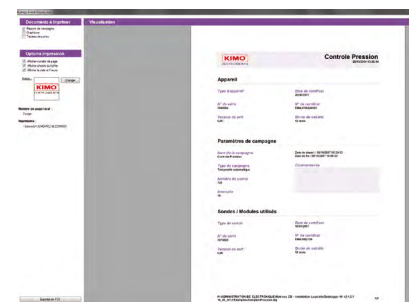
Instruments management

Record your instruments and their calibration certificate.



Reports creation

Customise your reports before printing or exporting them as PDF.



Dataset processing

- Customized channels
- Insert comments
- Insert legends and statistics
- Add mathematical functions



Airflow / Pressure / Air velocity

DBM 620 - For airflow commissioning and balancing

Technical specifications

DBM 620 can be used on any supply or exhaust, air distributors: rectilinear, helical and toric.

- Quick and simple hood changes
- Measuring range from 40 to 3,500 m³/h
- Simultaneous display of airflow and temperature
- Automatic airflow direction (extraction or air blast)
- Supplied with 610x610 mm hood
- 4 others hoods are available as options: 720x720 mm, 720x1,320 mm, 420x1,520 mm, 1,020x1,020 mm



**Interchangeable
Hoods**



**Micromanometer
Function**



Calculation functions and autonomous micro-manometer

The electronic housing can be disconnected to be used as a micro-manometer.

DBM 620 is a key instrument for your measurements in air systems: connected to a Pitot tube, it allows the measurement of air velocity or flow inside a duct, and connected to 2 silicone tubes, it allows the checking of filter condition in air-handling units.

Remote velocity grid

Designed for air velocity measurements on any type of large ceiling vent or diffuser.

The grid is similar to the DBM 620 grid. It calculates the average air velocity from 24 points to guarantee a reliable measurement. The grid is attached to a telescopic (maximum length is 2,05 m) and articulated pole (0 to 90°). Struts of 3 different lengths allow for correct positioning of the grid on the ceiling surface.

A backpack allows easy carriage of the grid and its accessories (telescopic pole, articulation, 2 x 2,5m of silicone tube, positioning strut and electronic housing).



Pressure

Class 50/110

MP 50 / 51

- Auto-zero function
- Hold function
- Supplied with silicone tubes
- MP 50: $\pm 1,000$ Pa
- MP 51: $\pm 1,000$ mmH₂O



MP 55

- Atmospheric pressure
- 700 to 1,100 mbar

MP 110 / 111 / 112 / 115

- Auto-zero function
- Hold/Min/Max Functions
- Supplied with silicone tube (MP 110 and 111)
- Supplied with cristal tube (MP 112 and 115)
- Safety connectors (MP 112 and 115)
- MP 110: $\pm 1,000$ Pa
- MP 111: $\pm 1,000$ mmH₂O
- MP 112: $\pm 2,000$ mbar
- MP 115: ± 500 mbar



MP 130

- Gastightness special manometer for gas network
- Supplied with ABS transport case
- ± 500 mbar



MP 120

- Temperature and atmospheric pressure compensation
- Adjustable K coefficient for different pressure elements
- $\pm 1,000$ Pa
- 0 to 40 m/s

Pressure / Air velocity / Airflow

MP 210



Measuring ranges

- ± 500 Pa / $\pm 2,500$ Pa / $\pm 10,000$ Pa
- ± 500 mbar / $\pm 2,000$ mbar
- Thermocouple: -200 to $+1,760^\circ\text{C}$
- Pt 100: -200 to $+600^\circ\text{C}$
- CO: 0 to 500 ppm
- Air velocity: -5 to 35 m/s (with vane)
3 to 85 m/s (with Pitot tube)
- Airflow: 0 to 99,999 m³/h
- Gas leak detection: 0 to 10,000 ppm
- Tachometry: 30 to 60,000 rpm



Wireless Probes



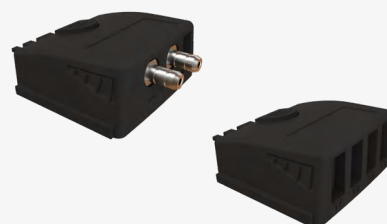
Interchangeable Probes & Modules



Data processing Software

Probes & modules available

- Vanes & Hotwires
- Temperature
- CO
- Gas detection
- Tachometry



Modules

4 channels thermocouple
Pressure

Air velocity / Airflow

Class 50/110



VT 50

- Hotwire probe
- Hold function
- 0.15 to 30 m/s
- 0 to +50°C



LV 50

- Integrated Ø100 mm vane probe
- Hold function
- 0.3 to 35 m/s
- 0 to +50°C



LV 110 / 111 / 117

- Ø14 mm, Ø70 mm, Ø100 mm vane probes
- Hold/Min/Max functions
- Airflow and Airflow with cones
- Self-acting average
- Detection of flow direction (Ø70 mm and Ø100 mm vanes)
- 0.3 to 35 m/s
- 0 to +50°C

LV 130

- Integrated Ø100 mm vane probe
- Hold/Min/Max functions
- Airflow and Airflow with cones
- Self-acting average
- Detection of flow direction
- 0.3 to 35 m/s
- 0 to +50°C

VT 110 / 115

- Hotwire and telescopic hotwire
- Hold/Min/Max functions
- Airflow and Airflow with cones
- Self-acting average
- 0.15 to 30 m/s
- 0 to +50°C



Wide range of measuring cones for vane and hotwire probes.



Air velocity / Airflow / Humidity

VT 210



Measuring ranges

- Air velocity: -5 to 35 m/s
- Airflow: 0 to 99,999 m³/h
- Humidity: 3 to 98 %RH
- Dew point: -50 to +80°C_{td}
- Thermocouple: -200 to +1,760°C
- Pt 100: -200 to +600°C
- Atmospheric pressure: 800 to 1,100 hPa
- Tachometry: 30 to 60,000 rpm



Wireless
Probes



Interchangeable
Probes & Modules



Data processing
Software

Probes & modules available

- Vanes & Hotwires
- Temperature
- Hygrometry
- Multifunction
- Tachometry



Modules

- 4 channels thermocouple
- Climatic conditions

Humidity

Class 50/110

HD 50

- Thermo-hygrometer
- Hold function
- 5 to 95 %RH
- -20 to +70°C



HM 50

- Pin Moisture meter
- Hold function
- Compatible with 4 types of materials: wood, plaster, brick and concrete
- Supplied with 2 extra pin sets and a protective cap



HD 110

- Thermo-hygrometer
- Hold/Min/Max functions
- 5 to 95 %RH
- -20 to +70°C
- -40 to +70°C dew point



Air quality

Class 50/110

CO 50

- CO-meter
- Hold function
- 0 to 500 ppm
- -20 to +80°C



CO 110

- CO-meter
- Hold/Min/Max and CO max functions
- 0 to 500 ppm
- -20 to +80°C

AQ 110

- CO₂-meter
- Hold/Min/Max functions
- 0 to 5,000 ppm
- -20 to +80°C



Humidity / Air quality

HQ 210



Measuring ranges

- Humidity: 3 to 98 %RH
- Dew point: -50 to +80°C_{td}
- CO₂: 0 to 5,000 ppm
- CO: 0 to 500 ppm
- Air velocity: 0 to 5 m/s
- Thermocouple: -200 to +1,760°C
- Pt 100: -200 to +600°C
- Atmospheric pressure: 800 to 1,100 hPa
- Light: 0 to 150,000 lux



Wireless Probes



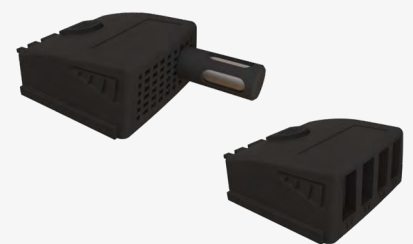
Interchangeable Probes & Modules



Data processing Software

Probes & modules available

- CO / CO₂
- Hygrometry
- Omnidirectional
- Temperature
- Light



Modules

4 channels thermocouple
Climatic conditions

Temperature

Class 60

TR 61 / 62

- Pt 100 Thermometers
- 1 or 2 channels
- Hold function
- -100 to +400°C



Wide range of probes
supplied in option:
ambient, penetration,
general, contact, tilted, ...



TK 61 / 62

- Thermocouple Thermometers
- Type K, J, T and S
- 1 or 2 channels
- Hold/Min/Max functions
- -200 to +1,760°C

Temperature Pt 100 & thermocouple

TM 210



Measuring ranges

- Measure and display up to 6 channels
- Thermocouple K: -200 to +1,300°C
- Thermocouple J: -100 to +750°C
- Thermocouple T: -200 to +400°C
- Thermocouple S: 0 to +1,760°C
- Pt 100: -200 to +600°C



Wireless
Probes



Interchangeable
Probes & Modules



Data processing
Software

Probes & modules available

Thermocouple K, J, T, S
Pt 100



Modules

4 channels thermocouple
U coefficient

Temperature probes

For HVAC portable instruments



Contact probes

- Contact with lamella
- Copper contact
- Straight lamella
- Angled at 90° lamella
- Magnetic lamella
- On wheels for moving surface
- Wireless probes
- ...

Penetration probes

- Stainless steel sheath with pointer tip
- 150 or 300 mm length
- With or without handle
- IP65 waterproof models
- T-shape handle
- Wireless probes
- ...

Pipes probes

- Lamella contact and spring for pipes
- Contact with clamp
- Velcro
- ...

Accessories



Saturated salt solutions
For hygrometers



Measuring cones
For vanes and hotwires



Magnetic protective housing
For class 50/60/110



Backpack
For class 210/310



Infrared printer
For class 210/310



ABS transport case
For class 50/60/110



Debimo blades
For class 210/310



Distance guide rod
For air system vent



Telescopic extension
Tilting at 90°

Services & Maintenance

Control / Repair



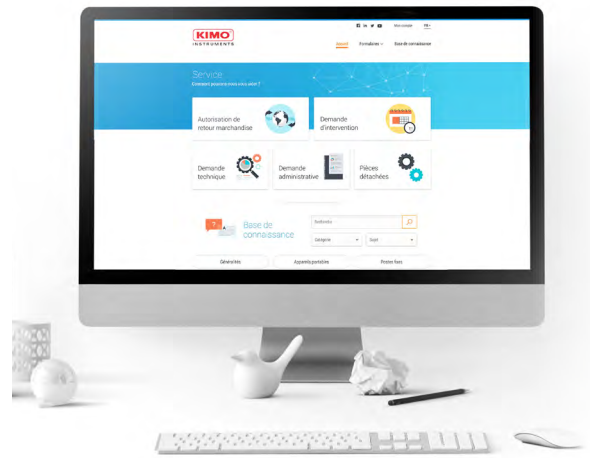
Customer support

On receipt of your instrument, our technicians take care of it in accordance with our quality procedures. A complete check is performed and a quotation is issued.

The instrument is cleaned and repaired.
A complete test is done prior to return shipment.

1,500 m² of laboratories

- Air flow
- Air velocity
- Combustion
- Temperature
- Humidity
- Pressure
- Electrical current
- Tachometry



Customer service portal

Use our new services portal to contact us.

<http://kimo-fr.custhelp.com>



Field services



Help line



Calibration and settings



Accredited temperature laboratory as per ISO 17025 standard

KIMO can perform COFRAC calibrations on any type of thermometer: measuring chain, PT100, Thermocouple) within a range from -70 to +200°C, in sterilizer or in baths.



Accredited hygrometry laboratory as per ISO 17025 standard

KIMO can perform COFRAC calibrations on any type of hygrometer within a range from 5 to 95 %RH for a dry temperature from +10 to +50°C.

Infrared temperature

Thermometers

Diagnose, inspect and check any temperature, with the advantage of using "no-contact" technology. You can safely measure surface temperatures of hot, dangerous or difficult to access objects.

Kiray 100

- -50 to +800°C
- Optical D.S: 20:1
- Dual laser sighting
- Emissivity: adjustable from 0.10 to 1.00 (pre-set at 0.95)
- High/low alarm
- Supplied with case



Kiray 200

- -50 to +850°C
- Optical D.S: 30:1
- Single laser sighting
- Emissivity: adjustable from 0.10 to 1.00 (pre-set at 0.95)
- Input for K thermocouple probe
- High/low alarm
- Memory: 20 temperature values
- Supplied with case and K thermocouple probe



Single or dual
Laser sighting

Kiray 300

- -50 to +1,850°C
- Optical D.S: 50:1
- Dual laser sighting
- Emissivity: adjustable from 0.10 to 1.00 (pre-set at 0.95)
- Input for K thermocouple probe
- Memory: 100 temperature values
- High/low alarm
- Supplied with transport case, K thermocouple probe and tripod



Gas detection

Class 110



DF 110

- Detector of refrigerant gases and hydrogen (HFC, HCFC, Nidron 5...)
- Visual and audible alarm
- Manual and automatic self-calibration



FG 110

- Gas leak detector
- Detection of gas such as methane (CH₄), LPG (isopropanol and isobutane) and others combustible gas (hydrocarbons)
- Hold/Min/Max functions
- Audible alarm
- Supplied with check-report



Tachometry

Class 50/110

CT 50 / 110

- Portable tachometers
- Optical and contact
- Hold function (CT 50)
- Hold/Min/Max functions (CT 110)
- Optic: 60 to 60,000 rpm
- Contact: 30 to 20,000 rpm
- 4 to 2,500 m/min
- Supplied with 1 meter of reflective tape



Illuminance

Luxmeters



LX 50

- Class C luxmeter
- Hold function
- 0 to 10,000 lux
- 0 to 929 fc
- Supplied with adjustment certificate



LX 100

- Class C luxmeter
- Instantaneous measurement
- Timed measurement
- Relative illuminance function
- Hold/Min/Max functions
- 0.1 to 150,000 lux
- 0.01 to 13,940 fc
- Supplied with calibration certificate



LX 200

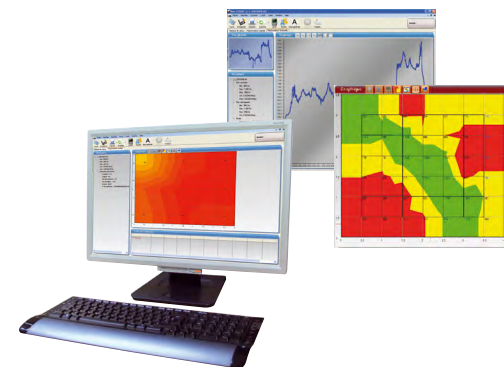
- Class B luxmeter
- Instantaneous measurement
- Relative illuminance function
- Evolution of illuminance according to weather conditions
- Cartography of illuminance
- Uniformity
- Hold/Min/Max function
- 0.1 to 200,000 lux
- 0.01 to 18,585 fc
- Supplied with LLX 200 software and calibration certificate



Instruments compliant to
NF C 42-710



As per following standards
EN 12464-1 / NF EN 12464-2
EN 12193



Operating software for data processing and
printing of customizable reports.

Solar power

Solarimeters / Pyranometers

SL 100

- Measurement and spot check of solar power
- Calculation of energetic exposure
- Results saved when instrument is switched off
- Hold/Min/Max functions
- 1 to 1300 W/m²
- 1 Wh/m² to 500 kWh/m²
- Supplied with calibration certificate



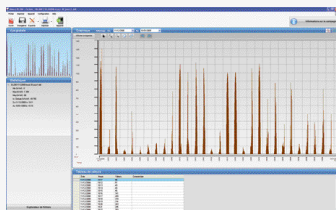
**Waterproof
Solar cell**

SL 200

- Measurement and spot check of solar irrigation (instantaneous, average, time-recording)
- Calculation of energetic exposure
- Storage and saving of average values of power
- Recorded datas can be read on the display, and the graphic function allows a fast interpretation of the measured file
- Hold/Min/Max functions
- 1 to 1300 W/m²
- 1 Wh/m² to 500 kWh/m²
- Supplied with calibration certificate



Accessories For solarimeters



LSL 200 (SL 200 only)

Configuration, download and data processing software of stored instrument data



Fixing kit

For solar panels

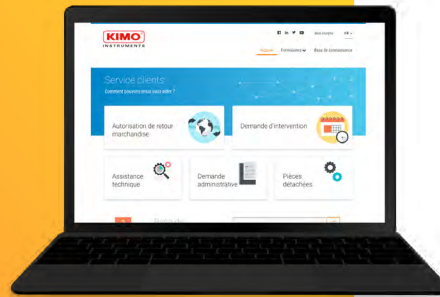


Tripod

For SL 100 and
SL 200

Manufacturer of innovative solutions
for the measurement and control of
indoor air quality.

Customer service portal
Use our customer service portal
to contact us.



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.

