KIMO ®
I N S T R U M E N T S

techni**CAL**
eXpanding possibilities
866-327-8731
www.techniCAL-sys.com
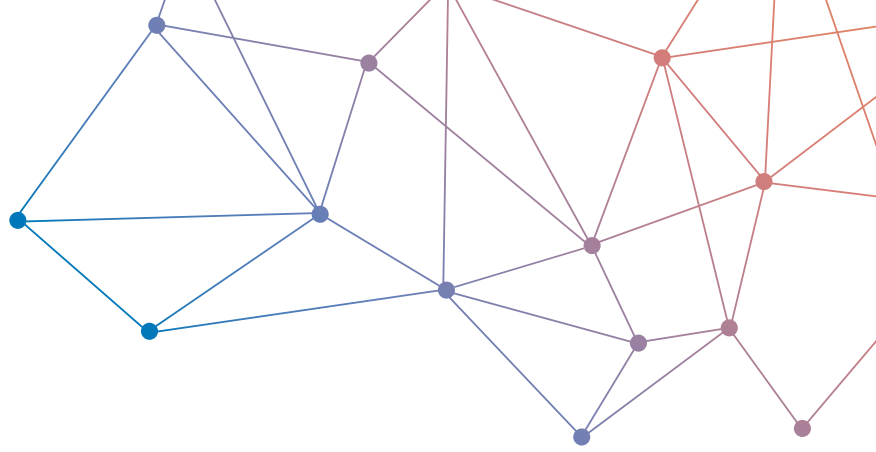
PORTABLE INSTRUMENTS

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

IP54 ABS housing
Integrated protection

((•)) Wireless
Probes

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

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

Interchangeable
Probes & Modules

Data processing
Software (option)

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.

HD 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
- Interchangeable Probes & Modules
- Graphical Display
- Data processing Software
- Micro-SD Card
- Color Wide screen

Measuring ranges

- ±500 Pa / ±2,500 Pa / ±10,000 Pa
- ±500 mbar / ±2,000 mbar
- Thermocouple: -200 to +1,760°C
- Pt 100: -200 to +600°C
- Humidity: 3 to 98 %RH
- CO: 0 à 500 ppm
- CO_2: 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)
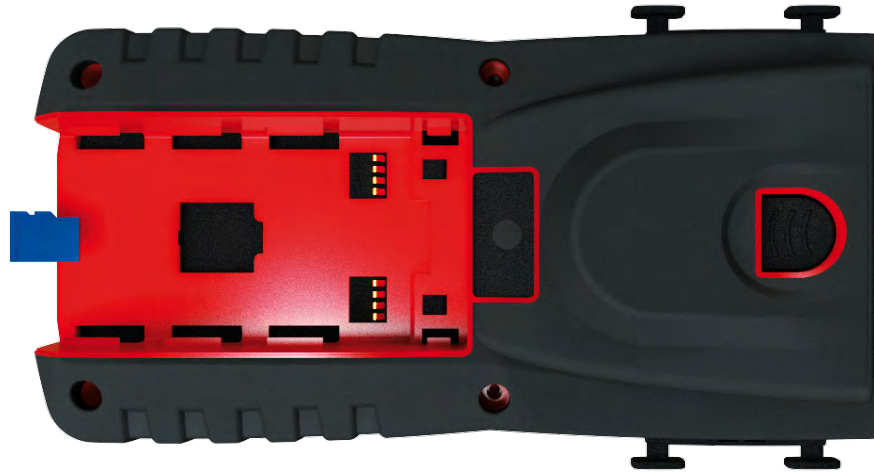
Adapt your AMI 310

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 / CO_2

Gas detection

Tachometry

Modules

Pressure

4 channels thermocouple

Climatic conditions

U coefficient
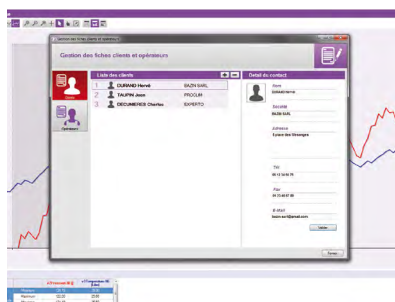
Data processing software

Datalogger

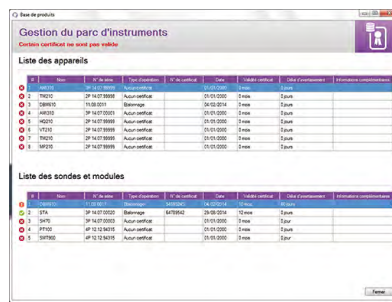**PORTABLES 210/310 & DBM 610**

Instruments configuration

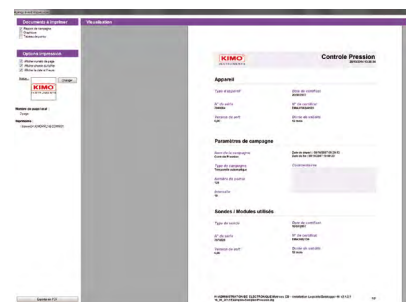Configure your operators, clients and sites.

Instruments management

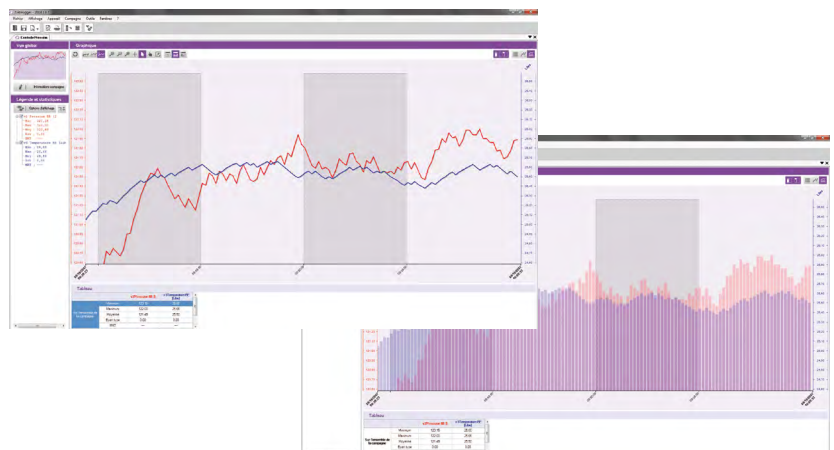Record your instruments and their calibration certificate.

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

Pa 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 differents 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: ±1,000 Pa
- MP 51: ±1,000 mmH$_2$O

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: ±1,000 Pa
- MP 111: ±1,000 mmH$_2$O
- MP 112: ±2,000 mbar
- MP 115: ±500 mbar

**Air velocity function
Pitot tube**

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
- ±1,000 Pa
- 0 to 40 m/s

Pressure / Air velocity / Airflow

MP 210

Measuring ranges

- ±500 Pa / ±2,500 Pa / ±10,000 Pa
- ±500 mbar / ±2,000 mbar
- Thermocouple: -200 to +1,760°C
- Pt 100: -200 to +600°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

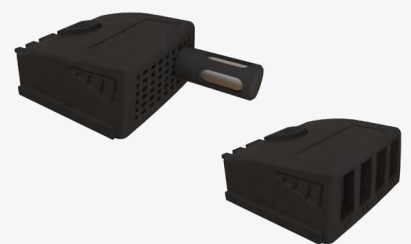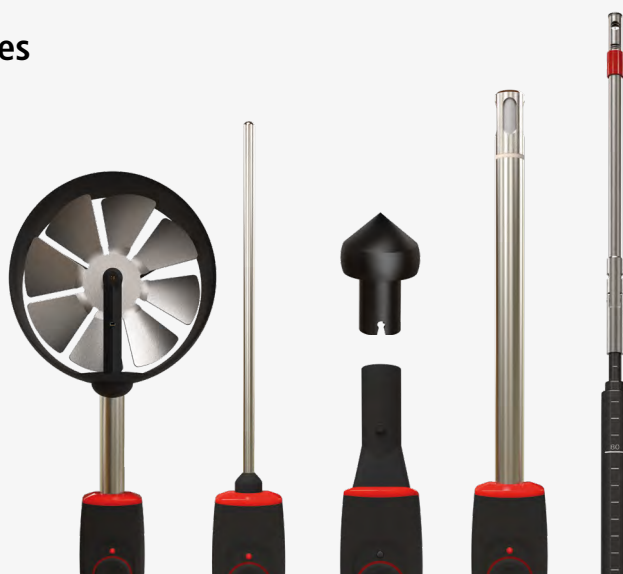 **Wireless Probes**

 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

- CO_2-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$_{td}$
- CO_2: 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 / CO$_2$

Hygrometry

Omnidirectionnal

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
- ...

Accessoiries

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
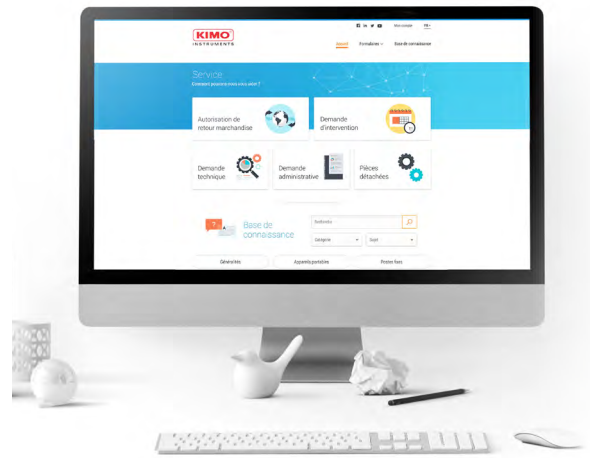
Customer service portail

Use our new services portal to contact us.

http://kimo-fr.custhelp.com

⊙ **Field services**

🎧 **Help line**

⚙ **Calibration and settings**

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ETALONNAGE

ACCREDITATION
N°2-1885
PORTÉE
DISPONIBLE SUR
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) within a range from -70 to +200°C, in sterilizer or in baths.

cofrac
ETALONNAGE

ACCREDITATION
N°2-5553
PORTÉE
DISPONIBLE SUR
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 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

EN 14624

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 (CH_4), 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 adjustement 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

**Instruments compliant to NF C 42-710**

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

**As per following standards
EN 12464-1 / NF EN 12464-2
EN 12193**
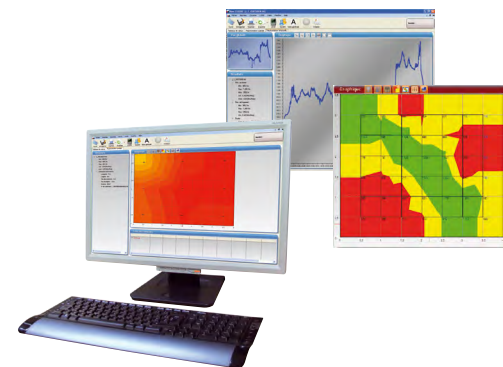
Operating software for data processing and printing of customizable reports.

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/m^2
- 1 Wh/m^2 to 500 kWh/m^2
- Supplied with calibration certificate

IP68
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/m^2
- 1 Wh/m^2 to 500 kWh/m^2
- Supplied with calibration certificate

Accessories
For solarimeters
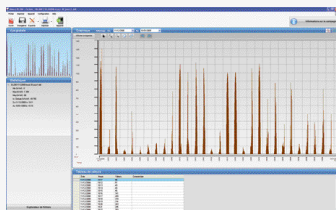
LSL 200 (SL 200 only)
Configuration, download and data processing software of stored instrument data

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.

cofrac

SCOPE N°2-1885
AVAILABLE ON
WWW.COFRAC.FR

ETALONNAGE

**Accredited temperature laboratory
as per ISO 17025 standard**

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thermometer (measuring chain, Pt100, thermocouple, etc.)
within a range from -70 to +200°C (in sterilizer or in baths).

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for a dry temperature from +10 to +50°C.

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