HVAC Measuring Instruments
Export general catalogue 2016

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

European Manufacturer
www.kimo.fr

Combustion
Gas Analyser

SOLUTION
FOR ANY TYPE OF BOILER UP TO 400 KW

We have developed a new range of combustion gas analysers, which fulfills all the needs of heating professionals.

Our analysers are scalable and offer many solutions for any type of boiler up to 400 kW, to improve efficiency and to control pollutant emissions.

NEW APP

KIGAZ mobile

Mobile application compatible with all KIGAZ range (except KIGAZ 50).

Download on the App Store

ANDROID APP ON Google play

Operating
software

LIGAZ-2

FREE Software

Record your customers, boilers and measurements.
Download your datasets and the programme will automatically fill in the measurement report.
Synchronisation of PC/instrument database.

LOGAZ-2

Optional software

Easy reading of measurement reports. Customize, print and export your files. Organize your timetable, maintenance contracts, customers follow-up. Display and recording of measurements in real-time. Synchronisation of PC/instrument database.

Class 310 & 210

KIGAZ 310

Up to **4** ~~interchangeable~~ **sensors**

O_2LV / $CO-H_2$ / NO
NO_2 / SO_2 / CH_4
sensors in standard or option

Any type **of boiler**

Autozero **in the flue**

Built-in water trap

Max level **alarm**

CO **dilution**

Customized procedures
CO dilution
Simplified water discharge
Optional: probe up to 1000°C

O_2, CO (H_2 compensation), Losses, Excess air, Efficiency (condensation), Flue gas temperature, Ambient temperature, Dew point temperature, Draft, Differential pressure, Flue gas velocity, Dilution, CH_4

KIGAZ 210

Up to **3** ~~interchangeable~~ **sensors**

Interchangeable sensors
O_2LV / $CO-H_2$ / NO / CH_4

Built-in **printer**

Autozero **in the flue**

Reports **printing**

Interchangeable probe
Customized procedure
Up to 10 measurements displayed simultaneously

O_2 & CO (H_2 compensation)
Losses, Excess air, Efficiency (condensation)
Flue gas temperature & velocity
Ambient temperature
Differential pressure

KIGAZ 110

2 interchangeable sensors

O_2LV / $CO-H_2$ sensors

Protection of sensors by **pump stopping**

Built-in **printer**

Protective cover **with magnet**

Step by step procedure
Self-test menu

O_2 flue gas, CO flue gas, CO_2 flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure & Pressure draft
Losses & Excess air
Efficiency up to 120%

KIGAZ 80

2 interchangeable sensors

O_2 / $CO-H_2$ sensors

Protection of sensors by **pump stopping with treshold**

External **printer** (option)

Protective cover **with magnet**

Step by step procedure
Self-test menu

O_2 flue gas, CO flue gas, CO_2 flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure & Pressure draft
Losses & Excess air / Efficiency up to 120%

External printer
(option for KIGAZ 50 and 80)

Protective cover with magnet
(supplied with KIGAZ 80,
option for KIGAZ 50)

KIGAZ 50

2 sensors

O_2 flue gas, CO flue gas,
CO_2 flue gas, ambient CO max
Flue gas temperature
Ambient temperature
Differential pressure
Pressure draft
Losses & Excess air

O_2 / CO Sensors

External **printer** (option)

Autozero 30 seconds

Additional **measurements**

Gas detection

FG 110

Gas leak detector
Detection of gas such as methane
(CH_4), LPG (isopropanol and isobu-
tane) and other combustible gases
(hydrocarbons)

Gas network

MP 130

Gas tightness special manometer
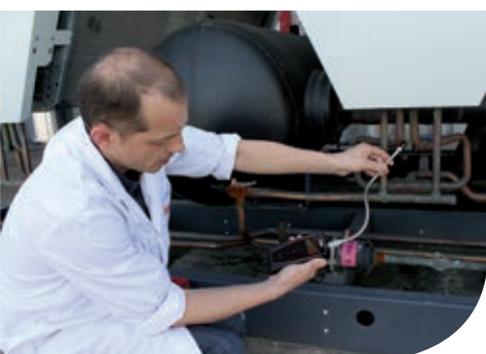for gas network
±500 mbar

Refrigerant gases

DF 110

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

Ambient CO

CO 50/110

CO and CO max measurement
From 0 to 500 ppm
From -20 to +80°C

NEW RANGE

HVAC
Portable
instruments

New features

Designed for the field

Ease of use

Nonstop measurements

Scalable instruments

Interchangeable probes

Class 310
multifunction

IP54 ABS housing
Integrated protection

Class 210
multi-probes

Class 50 & 110
monofunction

The + of class 210 & 310

Designed for the field
An overmoulding made of elastomere protects the instrument, guarantees shockproofing

Expandable memory (AMI 310)
Internal memory of 1,000 datasets of 20,000 measuring points. Built-in location for a micro-SD memory card

Nonstop measurements
This new generation of instruments has an interchangeable and rechargeable Li-ion battery.

Interchangeable probes
The new probes utilise a mini-Din connecting cable which is compatible with all probes

Modules

1. Climatic conditions
2. Thermocouple (4 channels)
3. Pressure
4. U Coefficient

Air Quality

CO 50/110 - AQ 110 - HQ 210

CO : 0 to 500 ppm
CO_2 : 0 to 5,000 ppm
-200 to +600°C
3 to 98 %RH
0 to 5 m/s

Manometers

MP 50/51/55/110/111 112/115/120/130/210

Differential pressure
From ±500 Pa to ±2,000 mbar
Air velocity with Pitot tube
From 2 to 100 m/s
Atmospheric pressure
From 800 to 1,100 hPa

Anemometers

LV 50/110/111/117/130 VT 50/110/115/210

Hotwire and telescopic hotwire
0.15 to 30 m/s
Vane probes : Ø14, 70, 100 mm
0.3 to 35 m/s
Airflow: 0 to 99,999 m³/h

Class 50, 110 & 210

Hygrometers

HD 50/110 - HQ 210

3 to 98 %RH
-200 to +600°C
-50 to +80°C$_{td}$

Tachometers

CT 50/110

Optical : 60 to 60,000 rpm
Contact : 30 to 20,000 rpm

+ Accessories

1. Software
2. Protective housing
3. ABS transport case
4. Saturated salt solutions
5. Measuring cones
6. Debimo blades
7. Gas network pack
8. Pitot tubes

AMI
Multifunction

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

Wireless Probes

Data processing Software

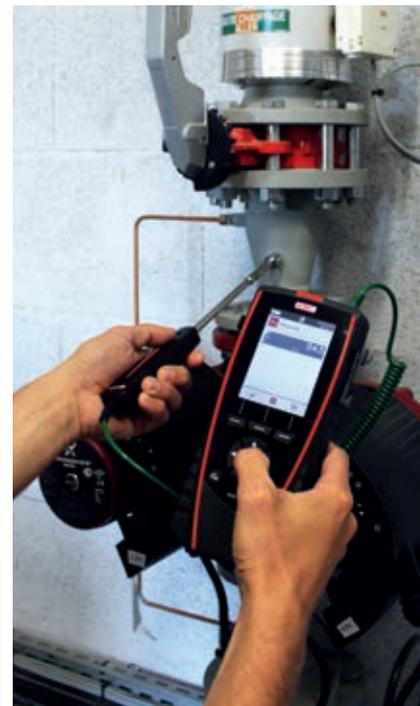**Interchangeable** Probes & Modules

Micro-SD Card

Graphical Display

Colour Wide screen

Measuring ranges

- ±500 Pa / ±2,500 Pa / ±10,000 Pa
- ±500 mbar / ±2,000 mbar
- Thermocouple: -200 to +1760°C
- Pt 100: -200 to +600°C
- Humidity: 3 to 98 %RH
- CO: 0 to 500 ppm
- CO_2: 0 to 5,000 ppm

- Air velocity: -5 to 35 m/s
- Airflow: 0 to 99,999 m³/h
- Gas leak detection: 0 to 10,000 ppm
- Tachometry: 30 to 60,000 rpm

NEW

Portable
Thermometers

Class 210 - TM 210

- -200 to +1,760°C
- 2 Pt 100 channels
- **4 thermocouple inputs**
- 1000 datasets

Thermocouple module
4 channels

Class 50

TK 50/52 - TR 50/52

1 or 2 channels
for Pt 100 probes,
Thermocouple K, J, T, S
-200 to +1,760°C

Class 100

TK 110/112 - TR 110/112

Configurable alarms
Hold/Min/Max functions
1 or 2 channels for Pt 100 probes,
Thermocouple K, J, T, S
-200 to +1,760°C

INFRARED

Thermometers

KIRAY 100/200/300

Diagnose, inspect and check any
temperature, with the advantage
of using ''no-contact'' technology.
-50 to +1,850°C

DBM 610
Airflow / Air velocity

Interchangeable Hoods

Pa **Micromanometer** Function

A solution for airflow commissioning and balancing

DBM 610 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 or 24 to 2060 cfm
- 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

  720 x 720 mm
  720 x 1,320 mm
  420 x 1,520 mm
  1,020 x 1,020 mm

Micromanometer function with Pitot tube

Remote velocity grid

NEW

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

The grid is similar to the DBM610 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).

Sound Level
Meters

Noise at **Workstation**

NR comfort Criteria

As per standards
EN **61672-1** / EN **60651**
EN **60804**

DB 100/200/300

Class 1 and 2 sound level meters as per international standards
20 to 137 dB
Frequency weighting A, C, Z*
Real time analyser by octave bands: 31.5 Hz to 8 kHz (class 2), 16 Hz to 16 kHz (class 1, DB 300 only)

Data processing software

In option for DB 200 and 300, LDB 300 software is specific for industry and work environment.

It allows for elaborated data processing and reports printing as per NF S31-010 standard.

Environmental
Diagnosis

Solarimeters

CR 110 - SL 100/200

**Portable or fixed installation
To control photovoltaïc
and thermal installations**
1 to 1,500 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: Lex,d
Data processing software

Applicative standard
ISO **9612 : 2009**

2003/10/CE
Directive

Luxmeters

LX 50/100/200

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

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

Pin moisture meter

HM 50

Compatible with 4 types of materials:
wood, plaster, brick and concrete

Supplied with 2 extra pin sets and a
protective cap

Sensors
Transmitters

Configurable outputs

IP65 Waterproof ABS housing

3 A 230 Vac RCR relay

0-5/10 V 0/4-20 mA 1 or 2 analogue **outputs**

Industry, service, food industry

- For air processing
- Dip switch, keypad and software configuration
- Power supply: 24 V / 115 V / 230 V
- Outputs: 4-20 mA/0-20 mA or 0-10 V/0-5 V

Class 210

Class 110

INNOVATION

Simplified calibration

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.

Monostats

PST/HST/TST/COST/CO2ST

1 RCR relay
From ±100 Pa to ±2,000 mbar
From 5 to 95 %RH
From -100 to +400°C
CO: 0 to 500 ppm
CO_2: 0 to 5,000 ppm

Class 110 - Monofunction

CP / HM / TH / TM / CTV / CR / LR / CO

1 or 2 analogue outputs
From ±100 Pa to ±2,000 mbar
Atmospheric pressure: 800 to 1,100 hPa
From 5 to 95 %RH
From -100 to +400°C

From 0 to 30 m/s
From 0 to 1,500 W/m²
From 0 to 10,000 lux
CO: 0 to 500 ppm
CO_2: 0 to 5,000 ppm

NEW

CO/CO_2 sensors

KIMO designed CO/CO_2 transmitters in order to meet with requirements of new norms and decrees on air quality.

Multifunction

Class 210

CP / TH / TM / CTV / COT

2 analogue outputs
Calculation functions
Automatic autozero
From ±100 Pa to ±2,000 mbar
From 5 to 95 %RH
From -100 to +400°C
From 0 to 30 m/s
CO: 0 to 500 ppm
CO_2: 0 to 5,000 ppm

SQR/3 option
Connected to DEBIMO measuring blades, CP 210 can calculate air velocity and airflow in a duct, from differential pressure.

Class 310 Multifunction

Pressure / Humidity / Temperature / Air Velocity / Airflow / CO / CO_2

NEW GENERATION

3 INPUTS for probes

Multifunction sensor

C 310

- Display and measure 4 parameters simultaneously
- 3 Inputs for interchangeable probes
- RS485 Modbus
- 4 RCR relays
- Up to 4 analogue outputs
- 4 visual and audible alarms

Ethernet Communication

Multifunction sensor

CA 310

- Large display
- 2 Inputs for interchangeable probes
- RS485 Modbus
- 3 RCR relays and 3 analogue outputs

Ethernet Communication

2 INPUTS for probe

Easy Clip

Interchangeable Probes

C 310 / CPE 310-S / CA 310

Pressure	From 0-10 Pa to 10,000 Pa
Humidity	0 to 100 %RH
Temperature	-50 to +180°C
Air Velocity	0 to 35 m/s
Airflow	0 to 99,999 m³/h
CO	0 to 500 ppm
CO_2	0 to 5,000 ppm
Current/Voltage	4-20 mA / 0-10 V

SPECIAL FOR CLEAN ROOM

Flush-mount

Multifunction pressure sensor

CPE 310-S

- 1 Input for interchangeable probes
- Front calibration
- 3 analogue outputs
- RS485 Modbus
- Range : ±100 Pa
- 3 visual and audible alarms

0,1 Pa
Precise Resolution

1 INPUT for probe

Front connection for configuration and calibration

alternative display

Multi-channel Display

Flush-mount ATE 300
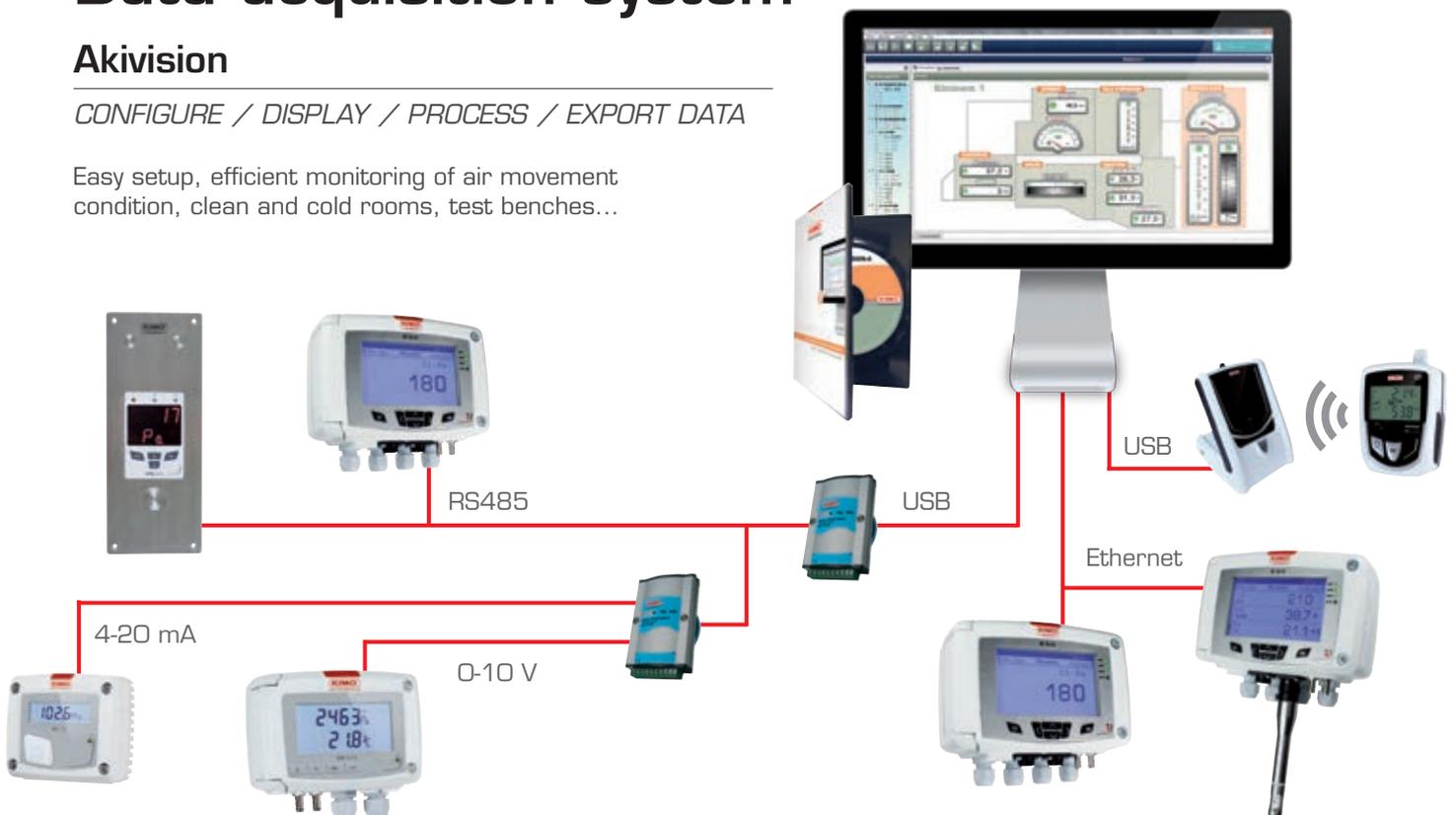
Display 3 parameters alternatively. RS485 Modbus

Data acquisition system

Akivision

CONFIGURE / DISPLAY / PROCESS / EXPORT DATA

Easy setup, efficient monitoring of air movement condition, clean and cold rooms, test benches…

RS485

USB

USB

Ethernet

4-20 mA

0-10 V

18

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

**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)

Calibration
Benches

NEW

Pressure generator

GP 500

The pressure generator allows to adjust and calibrate measurement instruments in laboratory or on-site.

-2,500 to +2,500 Pa
-10,000 to +10,000 Pa

- **20 programs with adjustable generations**
- **Solid transport case**
- **Aluminium housing with adjustable carrying handle**

NEW

Humidity generator

GH 500

Calibration of several instruments simultaneously
Muli-probe ventilated measuring chamber
Interchangeable regulating probe

From 10 to 85%RH

NEW

Dataloggers

Anti-theft system

Multi **application**

KISTOCK

- • Measuring, recording and data processing
- • Measurement of 1 to 5 parameters simultaneously
- • Storage of up to 2,000,000 measurement points
- • User-friendly configuration with KILOG software and Kistock Mobile

HVAC

Food Industry

Clean Room

KISTOCK mobile

Configuration, data visualisation and download (only available for class 320)

Download on the **App Store**

ANDROID APP ON **Google** play

Class 50

KH 50 / KT 50

Temperature - Humidity
-40 to +70°C
5 to 95 %RH

IP65

Class 120

KH 120 / KT 120

Temperature - Humidity
-40 to +70°C
5 to 95 %RH
PDF Reports

Embedded software

EN12830

Class 220

KH 220 - KT 220 - KTT 220

Up to 2 inputs for external probes
NTC or K, J, T, N, S thermocouple
Humidity
Water pressure
-200 to +1,760°C
5 to 95 %RH
0 to 10,000 lux
0 to 10 bar
0 to 20 mA / 0 to 600 A
0 to 10 V

Interchangeable **probes**

With or without **display**

11 10

Class 320

KT 320 - KTT 320 - KP 320
KPA 320 - KCC 320

Up to 4 inputs for external probes
Pt 100 or K, J, T, N, S thermocouple,
CO_2, differential pressure, humidity,
current
-200 to +1,760°C
5 to 95 %RH
0 to 5000 ppm
800 to 1100 hPa
±10,000 Pa
0 to 20 mA
0 to 600 A
0 to 10 V

Mobile application

Bluetooth communication

Accessories

Large choice of temperature and hygrometry probes

Data collector for mobile data transfer (20,000,000 pts)

Anti-theft System (class 220 and 320)

Kilog software (option) and Kilog lite software (free)

Wireless
Datalogger

KISTOCK RF

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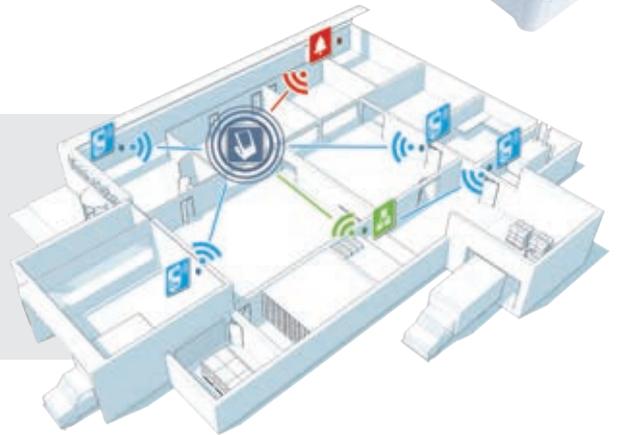
Communication base

Alarm box

Wireless datalogger

Network extender

KIMO exclusivity

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

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

Liquid column
Manometers

Liquid column manometers

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

Vertical

0-100 mmH$_2$O to 0-2.6 bar
Units : mbar, Pa, DaPa...

Inclined

0-5 to 0-80 mmH$_2$O
Units : Pa, DaPa...

ECM

0-10 to 300 mmH$_2$O
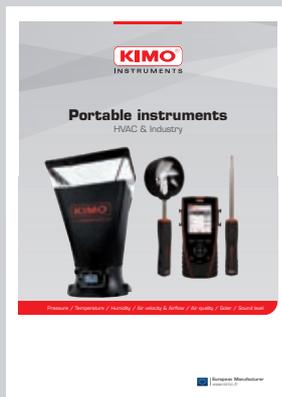Manual adjustable setpoints

+ Accessories

To fit any installation with proper connections :

- Liquid for manometer

- Tubes, junctions

- Pressure connections, wall-crossing connection...
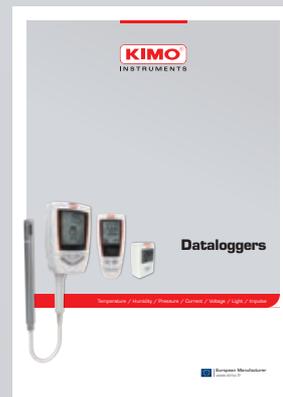
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