

KIMO[®]

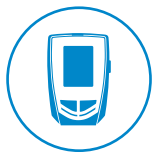
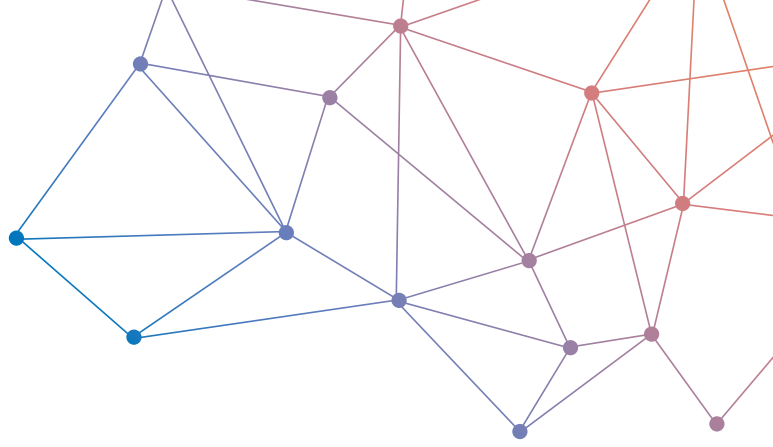
INSTRUMENTS

techniCAL

Expanding possibilities

866-327-8731

www.techniCAL-sys.com



DATA LOGGERS

The most reliable solution for monitoring your processes



Data loggers

Kistock

Temperature / Humidity / Pressure / Air quality / Light
Current / Voltage / Pulse / Water pressure



COMPACT
Class 20 / 50

Temperature

Class 20

- Without display
- Up to 8,192 points

Temperature and Humidity

Class 50

- 1-line display
- 16,000 points



USB
Class 120

Temperature and Humidity

- 1-line display
- 50,000 points
- Integrated USB connector



Mini size



**Software PDF
integrated**

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P. 20

Find out about our wireless solutions



MULTI-FUNCTION Class 220

Temperature, Humidity, Water pressure, Light,
Current, Voltage, Pulse

- 2-line display or no display
- Interchangeable probes
- KILOG software
- 1,000,000 points



2 programmable
alarm thresholds



EXPERT Class 320

Temperature, Humidity, Pressure, Air quality
Atmospheric pressure, Current, Voltage, Pulse

- 2-lines display
- Smart interchangeable probes
- KILOG software
- 2,000,000 points



Mobile
application

Operating software

Kilog / Kilog-Lite / Kistock mobile

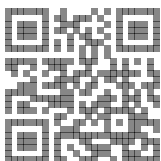


KILOG-Lite

Configuration / Visualisation

Kilog-Lite is compatible with the entire Kistock range with the exception of class 120. Simply configure and visualise the data from the loggers.

Download the software from our website:
www.kimo.fr/kilog



Kistock mobile

Configuration / Visualisation

Free application developed for smartphones and tablets*. Allows configuration of data loggers, data visualisation and exportation.



*Compatible with class 320



KILOG

Configuration / Processing

Data processing

The comprehensive Kilog data processing software helps configure, download and process data from your Kistocks.

- Data printing and export
- Graphic tools
- Calculated channels
- Management of Customers & Operators



Compatible with all classes



Customised report



Configuration

3-stage configuration of:

- Your device
- Your channels
- Your thresholds and alarms
- Your recording



Downloading

In 1 click, quickly download data from the Kistock or station.

- Automatic backup
- Campaign archiving



Processing

- Creation of tables and graphics
- Automatic calculations
- Addition of advanced calculation features
- Data export to a spreadsheet









KILOG CFR: Data security

The KILOG CFR software is the indispensable user application, with traceability subject to the strict requirements of the 21 CFR part11 regulation. The security and integrity of your data are protected against any manipulation or falsification.



Key benefits of the Kistock range

Energy performance

-  Temperature
°C/°F
-  Humidity
%RH
-  Differential pressure
Pa
-  Air quality
ppm
-  Light
lux
-  Current/voltage
mA/V
-  Water pressure
Pa
-  Atmospheric pressure
hPa



With the new range of Kistock stand-alone dataloggers and KILOG software, you can collect and analyse all the metrics of industrial climate control engineering processes, monitor the climatic environment of a chamber and respond to the traceability requirements of agri-food and pharmaceutical industries during transport.

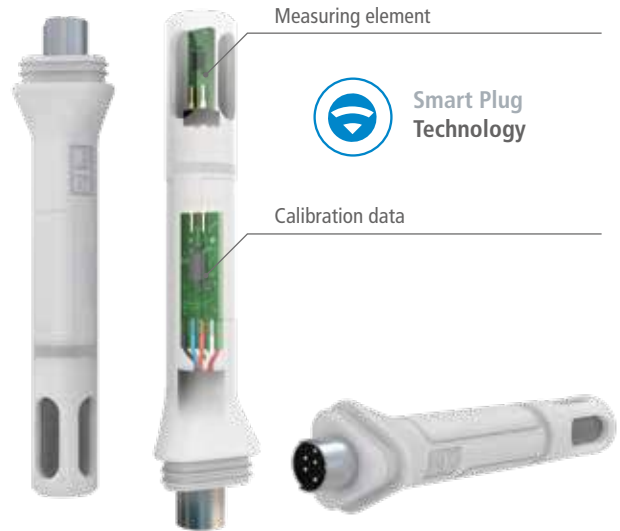
To respond to this broad application scope, the range comes in 4 device classes, from the most compact to the most advanced, the objective being to provide a specific, reliable and effective solution to the constraints of every business.



Smart Plug technology

In addition to the measuring element, the new measuring sensors for class 320 (see page 14) are equipped with an electronic card so they can be identified by the datalogger as soon as they are connected, with no need for prior intervention or configuration.

This card also includes calibration data, which avoids having to return your entire configuration (sensor + logger) to the KIMO laboratories for recalibration or sensor replacement: your process remains under 24/7 surveillance.



Interface USB

The new class 120 Kistock devices provide data logging, on-board configuration and measurement reports.

Equipped with a USB connector, these portable dataloggers are quickly connected to a computer to directly download the data and publish it in a graphic report in PDF format. The integrated interface, exclusively available in this class, also enables the rapid and simple configuration of your devices.

Mobile application



Available for iOS or Android smartphones and tablets, the mobile Kistock helps configure, generate the measurement report and visualise data from the logger in real time (class 320 only, see page 14).

With a range of 10m via Bluetooth Low Energy connection, access to data is facilitated and avoids any breakdown in process control.



Free application



MINI

Compact

Class 20 and 50

Temperature / Humidity



With its compactness and 500-day battery life*, class 50 fits perfectly into chambers, cold storage rooms or refrigerated trucks for temperature and/or humidity measurement controls.

The casings are equipped with a large LCD display and a unique function button for intuitive use. The campaigns are conducted via the Kilog-Lite software which can be downloaded from kimo.fr.



Mini size



16,000 measurement points



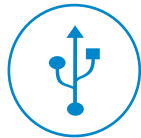
Standard interchangeable batteries



Magnetised casing



A place for an anti-theft device



USB connection



Kilog operating software (option)



Kilog-lite configuration software



Ambient checkpoint

Mini temperature data loggers



KT 20 G

- -40 to +85°C
- 2048 points

KT 20 L

- -40 to +85°C
- 8192 points

KT 20 T

- 0 to +125°C
- 8192 points



IP56



KH 50

- 1-line display
- Internal sensor
- Battery life: 365 days*

Measuring range
 °C -20 to +70°C
 %RH 5 to 95 %RH



KT 50

- 1-line display
- Internal sensor
- Battery life: 500 days*

Measuring range
 °C -40 to +70°C



A 50% level of relative humidity preserves works of art, archives



IP65 casing, compliant with the standard required by the agri-food industry

Compatible with KNT 320
 Data collector, storage and recovery
 p. 18



1. A place for an anti-theft collar or lanyard
2. Battery compartment
3. Battery compartment locking indicator Invisible magnetic fastening
4. Invisible magnetic fastening
5. PC connection via 1-metre long USB cable (optional)

*For a recording rate of one point every 15 minutes at 25°C

USB

Portable

Class 120

Temperature / Humidity

Dedicated to transport, class 120 helps control the measurements inherent in the health regulations applicable to fresh produce and foodstuff (hot and cold) retail, warehousing and transport activities to preserve the quality of the products and guarantee safety for consumers.

The integrated software helps configure the devices and extract data directly in pdf format.



Integrated PDF software



2 programmable alarm thresholds



Magnetic fastening



50,000 measurement points



Integrated USB connector



Integrated adjusting certificate



The stakeholders of the different food chains must comply with the manufacturing, storage, transport and distribution temperatures determined by regulations or, in the absence of any regulation, with those determined by the packager, under their responsibility, specified during production, storage, transport and distribution. The use-by date of a product, determined by the manufacturer, takes these temperatures into account.



KH 120

- 1-line display
- USB connector
- Internal sensor
- Battery life: 500 days*

Measuring range

°C -20 to +70°C

%RH 5 to 95 %RH



KT 120

- 1-line display
- USB connector
- Internal sensor
- Battery life: 3 years*

Measuring range

°C -40 to +70°C



Integrated PDF software

Exclusive to class 120, the integrated software automatically creates a PDF report.

- Configuration
- Download
- PDF report: statistics, configuration and alarms reminders, graphic display...



*For a recording rate of one point every 15 minutes at 25°C

FIELD

Multi-function

Class 220

Temperature / Humidity / Water pressure / Light
Current / Voltage / Pulse

The versatility of class 220 comes from the extension of the measurement parameters offering a broad range of applications. Thanks to the additional input for the connection of interchangeable sensors, the devices can simultaneously record up to 5 measuring channels.

Functional and adapted to the assessment of goods control and operating systems in warehouses, the range is easily mounted onto a wall and secured with a padlock or directly magnetically attached onto rack frames and other metal storage mounts. Once in place, the dataloggers can monitor the process for 4 years* without interruption or a battery change.



A place for an anti-theft device



1,000,000 measurement points



Kilog operating software (option)



Kilog-lite configuration software



Interchangeable probes



Magnetised KH 220 in the air conditioning room of an industrial facility



Relative humidity and temperature control in a maturing cellar using a KH 220 mounted onto a plate and secured with a padlock as part of a mapping process

Temperature / Humidity / Water pressure / Light
Current / Voltage / Pulse



KH 220

- 2-line display or no display
- Impermeability: IP65

Internal

- Temperature
-20 to +70°C
- Humidity
5 to 95 %RH
- Light
0 to 10 000 lux
0 to 929 fc

External

- Water pressure
0 to 20 bar
- Current : 0/4 to 20 mA
Voltage : 0 to 10 V
Pulse : max 5 V



KT 220

- 2-line display or no display
- Impermeability: IP65

Internal

- Temperature
-40 to +70°C

External

- Water pressure
0 to 20 bar
- Humidity
5 to 95 %RH
- Current : 0/4 to 20 mA
Voltage : 0 to 10 V
Pulse : max 5 V

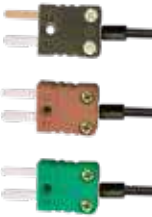


KTT 220

- 2-line display or no display
- 2 K, J, T, N and S thermocouple inputs

External

- Thermocouple temperature
- K -200 to +1300°C
- J -100 to +750°C
- T -200 to +400°C
- N -200 to +1300°C
- S 0 to +1760°C



NEW

Water pressure measurement with KH 220 and KSPE probe



KTT 220 equipped with two clipped thermocouple sensors to control the domestic hot water network (DHW), mounted onto a wall plate

* For a recording rate of one point every 15 minutes at 25°C

BLUETOOTH

Expert

Class 320

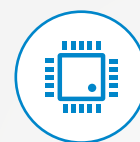
Temperature / Humidity / Pressure / Air quality / Atmospheric pressure
Current / Voltage / Pulse



Kimo has developed a new range of dataloggers specifically adapted to the needs of the industry and laboratories. Class 320 stands out with its connected object. Two features make your life easier: the smart-plug technology of the sensors and the mobile application.

The multi-parameter class 320 seamlessly fits into any process which requires the collection of several types of data on the same device. For example, the KCC 320 can record up to 4 parameters simultaneously: temperature, moisture level, CO2 level and atmospheric pressure.

Made to last, class 320 has a battery life of up to 7 years and has a memory of 2,000,000 points.



Smart plug probes

All sensors for the KISTOCK KT 320 devices are equipped with the SMART PLUG technology.

Automatic recognition and storage of adjustment parameters means that they are 100% interchangeable.



Configure



Record



Visualise



Alarm threshold



Edit



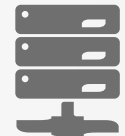
BLUETOOTH connection



Print



Transfer



Store



A place for an anti-theft device



2,000,000 measurement points



Bluetooth connection



Kilog operating software (option)



Kilog-lite configuration software



Mobile application



Accessories

ABS wall socket + padlock: the easiest, most effective solution for securing your campaigns



Compatible with KNT 320

Navette de déchargement des données p. 18

Expert

Class 320



2m long cable

KT 320


- 2-line display
- Impermeability: IP65
- Battery life: 7 years*

Internal


 Temperature
 -40 to +70°C

External


 Humidity
 0 to 100 %RH


 Current : 0/4 to 20 mA
 Voltage : 0 to 10 V
 Pulse : max 5 V



KTT 320

- 2-line display
- 4 K, J, T, N and S thermocouple inputs
- Impermeability: IP54
- Battery life: 7 years*

External


 Thermocouple
 temperature

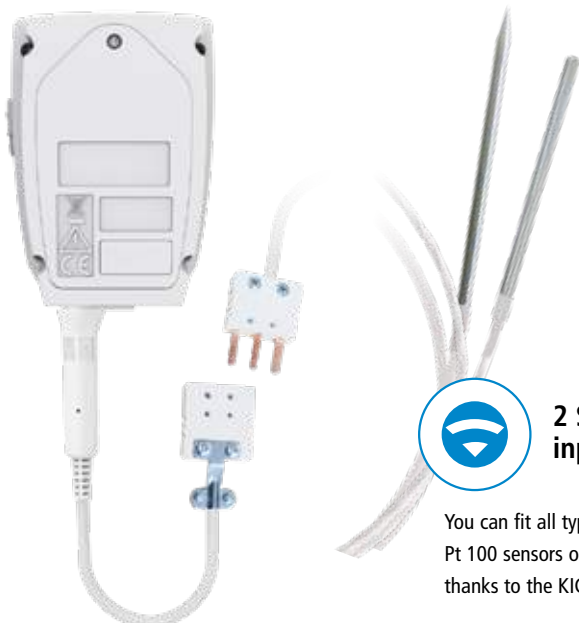
K -200 to +1300°C

J -100 to +750°C

T -200 to +400°C

N -200 to +1300°C

S 0 to +1760°C



2 Smart Plug inputs

You can fit all types of class A 3-wire Pt 100 sensors onto your KT 320 thanks to the KICA-320



The KT 320 helps control the contamination of clean rooms

Temperature / Humidity / Pressure / Air quality / Atmospheric pressure
Current / Voltage / Pulse



KCC 320

- 2-line display
- Impermeability: IP40
- Battery life: 3 years*
- Confinement index in accordance with decree 2012-14

Internal

- 🌡️ Temperature
-20 to +70°C
- ☁️ Humidity
0 to 100 %RH
- 💡 Atmospheric pressure
800 to 1100 hPa
- 🏠 Air quality
0 to 5000 ppm

KPA 320

- 2-line display
- Impermeability: IP40
- Battery life: 7 years*

Internal

- 🌡️ Temperature
-20 to +70°C
- ☁️ Humidity
0 to 100 %RH
- 💡 Atmospheric pressure
800 to 1100 hPa

KP 320/321

- 2-line display
- Impermeability: IP65
- Battery life: 7 years*

Internal

- 🌡️ Pressure
KP 320 : ±1000 Pa
KP 321 : ±10 000 Pa



Control of climatic data from a data centre using the smartphone application



Industrial furnace temperature control

* For a recording rate of one point every 15 minutes at 25°C

Probes

and accessories



Temperature probes

- NTC / Pt 100 and K, J, T, N and S Thermocouple
- General use / Environment
- Contact / Strip
- Pricking / Corkscrew
- Velcro / Piping



KICA 320

The KICA 320 is a Smart-Plug adapter for connecting any type of class A 3-wire Pt 100 sensor onto your KT 320.



Electricity / Water measurement

- Clamp-on ammeter: 0 to 600 A
- Voltage: 0-10 V
- Current: 0-20 mA
- Water pressure: 0 to 20 bar



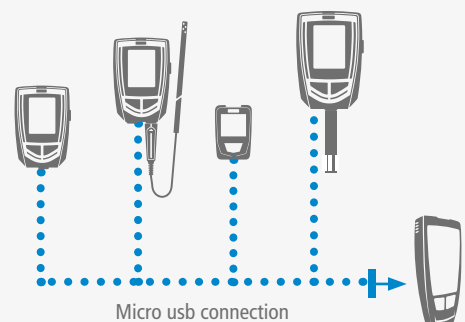
Hygrometry probes

- 0 to 100 %RH
- Smart Plug technology
- ABS or Stainless steel sensor
- With or without the connection cable
- Cable length 2m

KNT 320 recovery and transport station

Compatible with the entire new Kistock range (with the exception of class 120), the KNT 320 station helps record measurements without having to move the instruments
Data can be processed via the Kilog software.

Memory: 20,000,000 points



COMPARISON



DEVICES / CHARACTERISTICS	KT50	KH50	KT120	KH120	KT220	KH220	KTT220	KT320	KP320/321	KCC320	KPA320	KTT320
Storage capacity number of points	16,000		50,000		1,000,000			2,000,000				
Internal	1	2	1	2	1	3	-	1	1	4	3	-
External input	-	-	-	-	1	1	2	2	-	-	-	4
Impermeability	IP65	IP40	IP65	IP40	IP65	IP40	IP54	IP65		IP40		IP54
Internal sensor	yes						no	yes				no
Max no. of channels	1	2	1	2	3	5	2	5	1	4	3	4
Temperature												
Humidity												
Air quality							2 inputs THERMOCOUPLE					4 inputs THERMOCOUPLE
Pressure												
Light							K J T N S					K J T N S
Current / Voltage Pulse												
Water pressure												
Atmospheric pressure												
Remote probes	no				Interchangeable probes			Smart plug smart probes				
Battery life	500 d*	365 d*	3 years*	500 d*		4 years*		7 years*		3 years*	7 years*	
Anti-theft device			-	-								
Magnetic fastening	yes											
Kilog-lite	free											
Kilog-PDF	no	yes		no								
Kilog	Comprehensive Kilog data processing software (Optional)											
Data Logger app Bluetooth®	no						yes					
Station Compatibility	yes	no		yes								



Certificates

Class 120 adjustment certificate integrated into the data logger's memory in pdf format

Calibration certificate available for the entire range upon request

* For a recording rate of one point every 15 minutes at 25°C

WIRELESS

Kistock RF

Radio data loggers

Temperature / Humidity / Pressure / Current
Voltage / Pulse



The advantage of the range of wireless data loggers is the remote and real-time control of your process or storage area and guaranteed traceability via the KILOG RF software

Capable of storing 12,000 to 20,000 temperature, humidity, pressure, current, voltage and pulse measurement points, the KISTOCK-RF devices

guarantee precise monitoring of the process for the users, over a predefined or continuous period.

Supplied as a standard feature, the KILOG-RF software facilitates the configuration of the data loggers (thresholds, alarms, smoothing, interval, periodicity, etc.) and the processing of the data collected in graphic or table mode.



Monitoring your process

1

Communication base

BK-RF

Communicate with your KISTOCK dataloggers over the airwaves



2

Temperature data logger

KH 210-RF

Control the temperature and humidity of your storage areas



3

Range extender

KPR / KPE

Extend the scope of your network with radio and Ethernet extenders

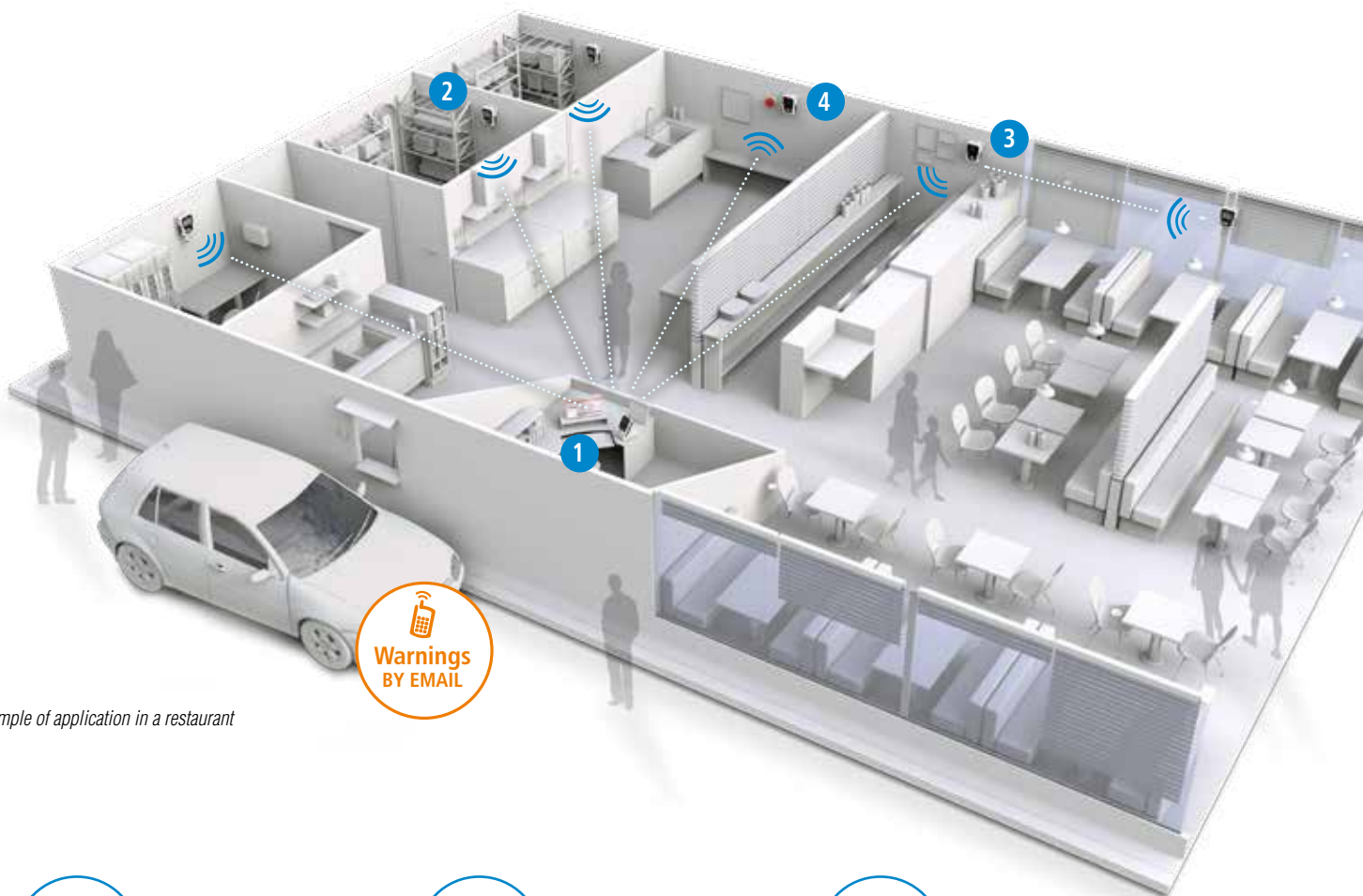


4

Alarm module with relay

KAL

Be alerted every time a threshold is exceeded



Example of application in a restaurant



Network up to 100 devices



Battery life up to 3 years



Online configuration



Magnetic fastening



Real-time monitoring mode



Up to 20,000 measurement points

Kistock RF

Radio data loggers



KT 110-RF

- 2-line display or no display
- Impermeability: IP65
- Memory 16,000 points
- Battery life 3 years*

Internal

🌡️ Temperature
-40 to +70°C

External

🌡️ Temperature
-40 to +120°C

⚡ Current : 0/4 to 20 mA
Voltage : 0 to 10 V
Pulse : max 5 V



KT 150-RF

- 1-line display or no display
- Impermeability: IP65
- Memory 12,000 points
- Battery life 3 years*

Internal

🌡️ Temperature
-40 to +70°C



KP 110-RF

- 1-line display or no display
- Impermeability: IP65
- Memory 12,000 points
- Battery life 3 years*

Internal

⚡ Pressure
KP 110 : ±1,000 Pa
KP 111 : ±10,000 Pa



Temperature / Humidity / Pressure / Current / Voltage / Pulse



KTU 210-RF

- 2-line display or no display
- Impermeability: IP65
- Memory 20,000 points
- Battery life 3 years*

External

- ⚡ Current : 0/4 to 20 mA
- Voltage : 0 to 10 V
- Pulse : max 5 V

KH 210-RF

- 2-line display or no display
- Impermeability: IP65
- Memory 20,000 points
- Battery life 3 years*

Internal

- 🌡️ Temperature
-20 to +70°C
- ☁️ Humidity
5 to 95 %RH

External

- 🌡️ Temperature
-40 to +120°C
- ⚡ Current : 0/4 to 20 mA
- Voltage : 0 to 10 V
- Pulse : max 5 V



* For a recording rate of one point every 15 minutes at 20°C

Kistock RF

Radio data loggers



KTR 310-RF

- 2-line display
- Impermeability: IP65
- Memory 20,000 points
- Battery life 3 years*

External

Temperature
-100 to +400°C



KTT 310-RF

- 2-line display
- 2 K, J, T and S thermocouple inputs
- Impermeability: IP54

External

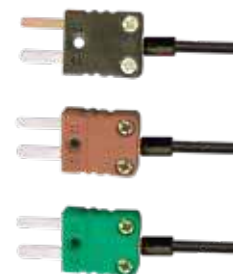
Thermocouple temperature

K -200 to +1,300°C

J -100 to +750°C

T -200 to +400°C

S 0 to +1,760°C



* For a recording rate of one point every 15 minutes at 20°C

Kistock RF

Software and accessories



KILOG-RF

Logiciel pour Kistock-RF

The KILOG-RF data processing software is specifically designed for the KISTOCK wireless range. It enables the implementation of a network of wireless KISTOCK devices (up to 100) for real-time monitoring mode.

- Measurement correction
- Data printing and export
- Graphic tools
- Calculated channels
- Management of Customers & Operators



Communication base

radiofrequency
BK-RF-2



Wall mounting

with an anti-theft system
KAV-RF



Data recovery

and transfer station
KNT 310



Alarm module

with relay
KAL-RF



Network extender

radio and Ethernet
KPE-RF and KPR-RF



Communication

tester
KTC-RF

Metrology & Laboratories

Verify / Adjust / Calibrate



Metrology

- For 100% reliable measurements
- All brands of instruments

For measurement instruments, calibration is a way to verify that the device is working correctly. To do this, standards are used and checked against national standards via COFRAC calibration certificates.

After every calibration service, you will be given a KIMO calibration certificate ensuring that our standards are checked against the national standards of accredited bodies such as COFRAC in France or DKD in Germany.



Calibration and adjustment

1,500 m2 of laboratories

- Temperature
- Hygrometry
- Air velocity
- Air flow
- Pressure
- Gas analysis
- Acoustics
- Weighing
- Radiometry
- Tachometry
- Light measurement
- Electricity



Hotline
Attentive to your needs

Before returning any equipment, our telephone technical support service helps you save time by giving you a rapid and effective solution (start-up, installation, malfunction).

Our experienced technicians will deal with your request in a professional manner.



Thermometry laboratory

KIMO proposes COFRAC calibrations for all types of thermometer (chain, Pt100 and thermocouple), within a range of -70°C to +200°C in ovens or baths.



Hygrometry laboratory

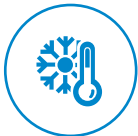
KIMO proposes COFRAC calibrations for all types of moisture meters within a range of 5% to 95%RH for a dry-bulb temperature of +10°C to +50°C.



TEMPERATURE MAPPING



Pharmaceutical warehouse



Climatic conditions
+20°C ±5°C



100,000 m³
characterisation
volume



Equipment

26 KT 320 data loggers , including 1 installed outside. KILOG software to configure and process data.

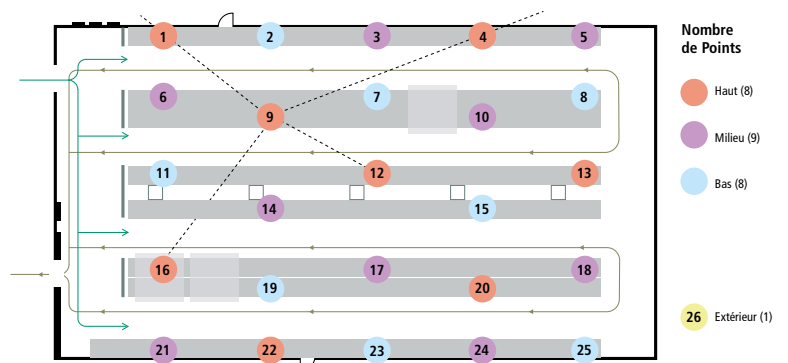
Warehouse / Laboratory
Pharmacy / Chamber / Transport

The NF EN 60068-3 standard* ensure the sustainability of products sensitive to temperature and relative humidity.

*NF EN 60068-3 standard

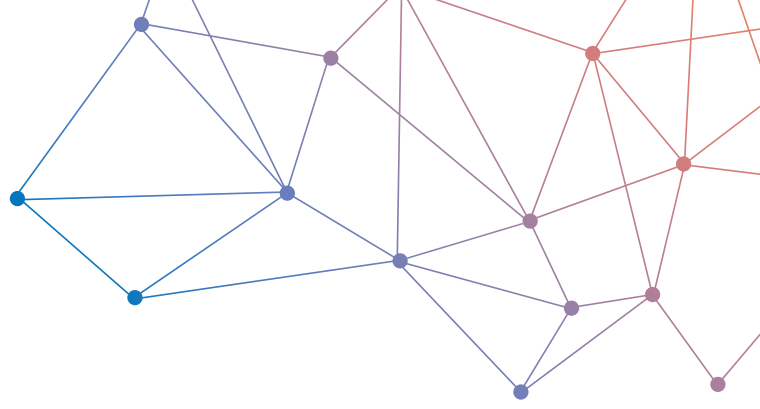
- Measurement of the temperature and relative humidity of the air
- Climatic and thermostatic chambers
- Characterisation and deviation from target

Mapping a drug warehouse in accordance with the NF EN 60068-3 standard under temperature and relative humidity conditions of 20° ± 5°C.

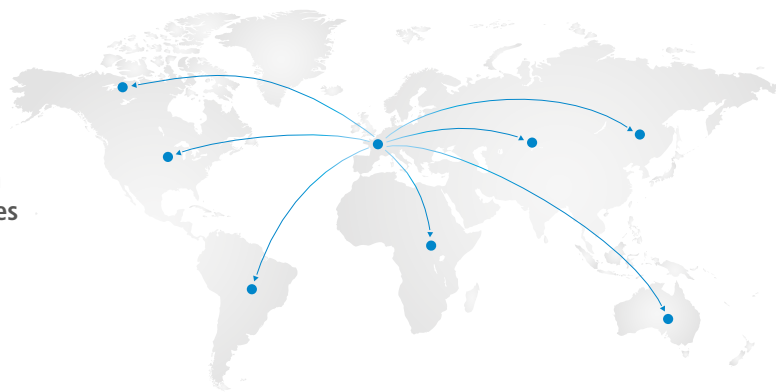


Report

A report should be issued featuring the gross values, calculated parameters (deviation from target, stability, homogeneity) and compliance of the chamber or building with the specified tolerances.



Kimo at your service in
more than 150 countries



techniCAL
eXpanding possibilities

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