

# Kistock dataloggers

Standalone & Radio



Temperature / Humidity / Pressure / Air quality / Light / Water pressure

**NEW RANGE** 

# Standalone Dataloggers **Kistock**

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









Temperature

Class 20

# COMPACT Class 20 / 50

Temperature, Humidity

- Without display
- Up to 8,192 points
- Class 50
- 1-line display
- 16,000 points

**PORTABLE** Class 120

Temperature, Humidity

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



MINI









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P. 20

Find out about our wireless solutions







# FIELD Class 220

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

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







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

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



**2 programmable** alarm thresholds



Multi **application** 



Mobile application



Multi **application** 

# Operating software Kilog / Kilog-Lite / Kistock mobile





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



Free application developed for smartphones and tablets\*. More information on page 7. Scan the QR code below or download the application from our website:

www.kimo.fr/kilog







<sup>\*</sup>Compatible with class 320



# 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





KIMO

(I) KILOG



# 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.







Temperature





Hygrometry





Differential pressure



Air quality





Light



Current/voltage

mA/V



Water pressure

Pa



Atmospheric pressure

nPa













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

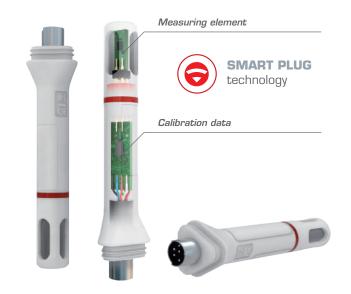
To respond to this broad application scope, the range comes in 4 device classes, from the most compact to the most advanced, the objective being to provide a specific, reliable and effective solution to the constraints of every business.



# 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.





# Temperature / Humidity

# Class 50

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



Magnetised casing and a place for an antitheft device



**USB** connection



Standard interchangeable **batteries** 



**Free** Kilog-Lite



**KILOG** software (option)



Ambient checkpoint



# Mini temperature dataloggers





KT 20 G
Temperature ....-40 to +85°C
Memory .....2,048 points

KT 20 L

Temperature . . . . . -40 to +85°C Memory . . . . . . . 8,192 points

KT 20 T

Temperature . . . . . 0 to  $+125^{\circ}$ C Memory . . . . . 8,192 points



# **KH 50**

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

# Measuring ranges



-20 to +70°C



5 to 95 %RH





# KT 50

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

# Measuring range



-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







- 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)



# 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.



**50,000** measurement points



2 programmable alarm thresholds



Magnetic fastening



Integrated PDF **software** 



Integrated adjusting **certificate** 



Integrated USB **connector** 







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.



# KT 120

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

# Measuring range



-40 to +70°C





# KH 120

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

# Measuring ranges



-20 to +70°C



5 to 95 %RH







# 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...





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



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.



Multi application



**1,000,000** measurement points



2 programmable alarm thresholds



**Free** Kilog-Lite



A place for an anti-theft device



**KILOG** software (option)



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

2m long cable

# 🐧 | www.kimo.fr/kistock



# KIMO)

# AT OK

Multi-application

# KH 220

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

### Internal

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

# External

- Water pressure
  O 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
O 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 +1,300°C

**J** -100 to +750°C

**T** -200 to +400°C

**N** -200 to +1,300°C

O to +1,760°C







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





# **EXPERT**

# Class 320

Temperature / Humidity / Pressure / Atmospheric pressure Air quality / 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 (see p.4).

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,  $CO_2$  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.





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.





**2,000,000** measurement points



A place for an **anti-theft device** 



Bluetooth connection



2 programmable **alarm thresholds** 



**KILOG** software (option)



**Mobile** application



# **Accessories**

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







# **EXPERT**

# Class 320



IP65 casing





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

# Internal



Temperature -40 to +70°C

# Externe



Humidity 5 to 95 %RH



Current: 0/4 to 20 mA Voltage: 0 to 10 V

Pulse: max 5 V









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

# Externe

Thermocouple temperature

**K** -200 to +1,300°C

**J** -100 to +750°C

**T** -200 to +400°C

**N** -200 to +1,300°C

**S** 0 to +1,760°C





The KT 320 helps control the contamination of clean rooms













# 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 5 to 95 %RH
- Atmospheric pressure 800 to 1,100 hPa
- Air quality O to 5,000 ppm

# **KPA 320**

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

# Internal

- Temperature -20 to +70°C
- Humidity 5 to 95 %RH
- Atmospheric pressure 800 to 1,100 hPa

# KP 320/321

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

# Internal

Pressure

KP 320: ±1,000 Pa KP 321: ±10,000 Pa



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



Industrial furnace temperature control



# **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 (see page 16)

**SMART PLUG** 

technology

# Temperature probes

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





# Electricity / Water Measurement

• Clamp-on ammeter: O to 600 A

Voltage: 0-10 VCurrent: 0-20 mA

• Water pressure: 0 to 20 bar

# Hygrometry probes

- 5 to 95 RH%
- Smart-Plug technology
- ABS or STAINLESS STEEL sensor
- With or without the connection cable
- Cable length 2m

# KNT 320 recovery and transport station

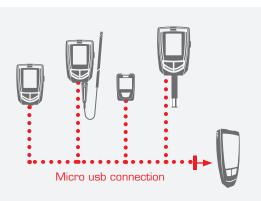
Compatible with the entire new Kistock range (with the exception of class 120), the KNT 320 station helps record measurements without having to move the instruments

Data can be processed via the Kilog software.

(see page 5)

Memory: 20,000,000 points



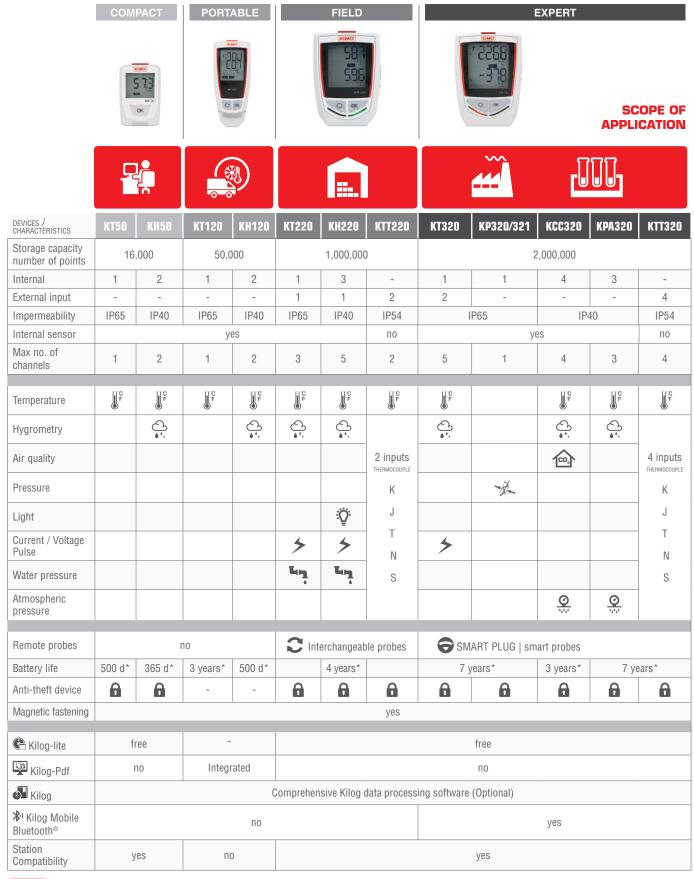




# All our Technical Data sheets

available at www.kimo.fr/kistock

# **COMPARISON**





Certificates

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

**Calibration certificate** available for the entire range upon request



# 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



# Communication base

BK-RF

Communicate with your KISTOCK dataloggers over the airwaves



# Temperature datalogger

KH 210-RF

Control the temperature and humidity of your storage areas



# Range extender

KPR / KPE

Extend the scope of your network with radio and Ethernet extenders



# Alarm module with relay

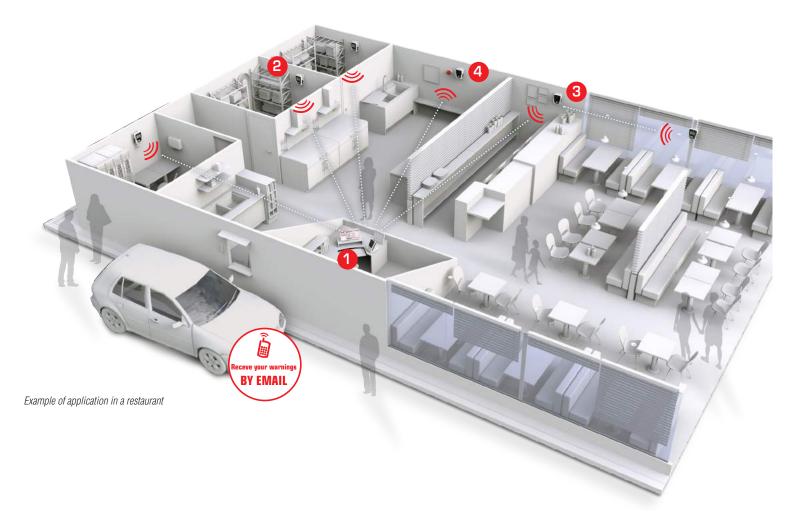
Be alerted every time a threshold is exceeded













**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



# Temperature / Pressure / Current / Voltage / Pulse







# 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

A Pressure

KP 110: ±1,000 Pa KP 111: ±10,000 Pa







# Class 210 radio dataloggers

# Temperature / Humidity / Current / Voltage / Pulse / Light





# 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 à 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

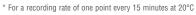
S Humidity -20 to +70°C

# External

Temperature -40 to +120°C

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









# Temperature / Current / Voltage / Pulse



# 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
- Memory 20,000 points
- Battery life 3 years\*

# External

Thermocouple temperature

**K** -200 to +1300°C

**J** -100 to +750°C

T -200 to +400°C

**S** 0 to +1760°C













# Software and accessories



Software and accessories

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** 



### Radio and Ethernet

network extender

KPE-RF et KPR-RF



### Communication

tester *KTC-RF* 



# Metrology & Laboratories

Verify / Adjust / Calibrate



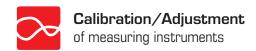


# Metrology

- 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.



# 1,500 m<sup>2</sup> of laboratories

- Temperature
- Hygrometry
- Air velocity
- Air flow
- Pressure
- Gas analysis

- Acoustics
- Weighing
- Radiometry
- Tachometry
- Light measurement
- Electricity

| www.kimo.fr/laboratories



Before returning any equipment, out 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



# 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.





Pharmaceutical warehouse



Climatic conditions **20° ±5°C** 



100,000 m<sup>3</sup> characterisation volume

# Equipment



26 KT 320 data loggers (see page 16), including 1 installed outside. KILOG software to configure and process data.



# KISTOCK APPLICATION EXAMPLE: TEMPERATURE MAPPING

# Warehouse / Laboratory Pharmacy / Chamber / Transport

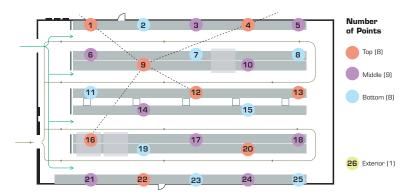
The **NF EN 60068-3 standard\*** ensure the sustainability of products sensitive to temperature and relative humidity.

### \*NF EN 60068-3 standard

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

# Mission

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

# **DISCOVER ALL OUR PRODUCT RANGES**

on www.kimo.fr



General catalogue



Portable instruments



Sensor transmitters



RCS (24) Périgueux 349 282 095 - Document non contractuel - Nous nous réservons la possibilité de faire évoluer les caractéristiques de nos produits sans préavis

Gas analysers

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