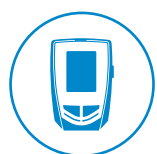


 **sauermann®**

KIMO®
INSTRUMENTS



DATA LOGGERS

The most reliable solution for monitoring your processes



Data loggers

Kistock

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



✓
NF EN
12830



COMPACT
Class 20 / 30 / 50

Temperature

Temperature and Humidity

Class 20

- Without display
- Up to 8,192 points

Class 30

- -40 to +70 °C
- 0 to 100 %RH

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

Content

Softwares	04	Class 320	14
Key benefits	06	Probes and Accessories	18
Class 20 and 50	08	Metrology	20
Class 120	10	Application example	23
Class 220	12		



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

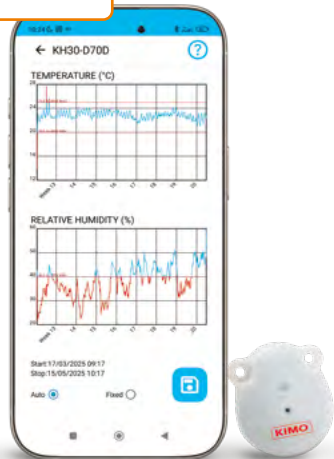


**Mobile
application**

Operating software

Kilog / Kilog-Lite / Kistock mobile

NEW



Kimo Track

Connect
the Kimo KH 30

Free mobile app for Kimo KH 30 temperature and hygrometry data logger.

- Automatic detection of KH 30 sensors
- Real-time monitoring of measurements
- Recording frequency settings
- Storage of up to 520,000 measurement points
- Measurement download and analysis via graphical display



KILOG-Lite

Configuration
Visualisation

Kilog-Lite is compatible with the entire Kistock range with the exception of class 20. Simply configure and visualise the data from the loggers.

Download the software from our website:



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 Kilolog data processing software helps configure, download and process data from your Kistocks.

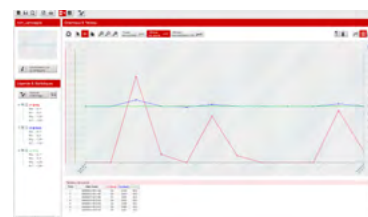
- Data printing and export
- Graphic tools
- Calculated channels
- Management of Customers & Operators



**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.

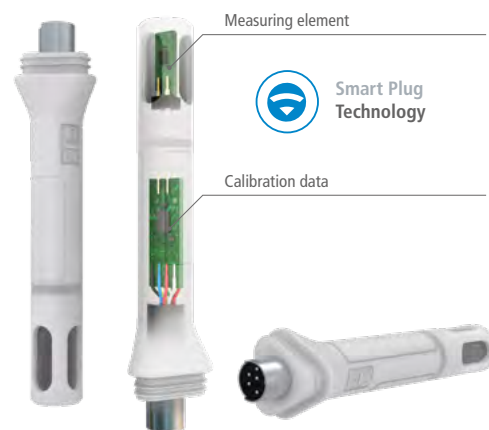
To respond to this broad application scope, the range comes in 4 device classes, from the most compact to the most advanced, the objective being to provide a specific, reliable and effective solution to the constraints of every business.



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 Sauermann laboratories for recalibration or sensor replacement: your process remains under 24/7 surveillance.



Interface USB



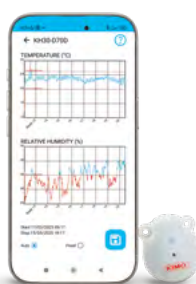
The new class 120 Kistock devices provide data logging, on-board configuration and measurement reports.

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.



Free application

Mobile application



Mobile KISTOCK

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 10 m via wireless connection, access to data is facilitated and avoids any breakdown in process control.

Kimo Track

Free mobile app for Kimo KH 30 temperature and hygrometry data logger.

- Automatic detection of KH 30 sensors
- Real-time monitoring of measurements
- Recording frequency settings
- Storage of up to 520,000 measurement points
- Measurement download and analysis via graphical display.

MINI

Compact

Class 20, 30 and 50

Temperature / Humidity

NEW

Compact autonomous data logger

The Kimo KH 30 is a compact thermo-hygrometer designed to record temperature and hygrometry (RH) during storage and transport of sensitive products.

The measurements are downloaded using a wireless connection to Android and iOS smartphones and tablets using the Kimo Track app.

Its size and ease of use make it the perfect device for certifying product safety during the final stage of transport, known as the 'last mile transportation'.

KH 30

- 172,000 points
- IP68
- Up to 8 years battery life
- iOS and Android ap
- Application iOS et Android

Measuring range

°F -40 to +70°C

0 to 100 %RH

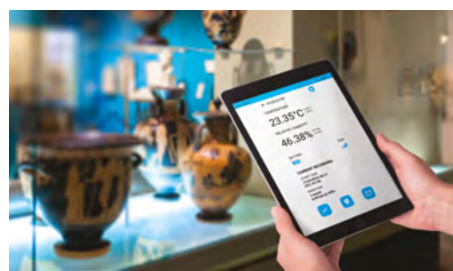
Applications

Transport and storage of sensitive products (medical, biological, etc.)

Transport and storage of perishable goods (food, wine, etc.)

Wireless measurement in sealed containers (laboratories, R&D, etc.)

Transport and storage of precious objects (furniture, paintings, musical instruments, etc.)



Kimo Track mobile app



- Automatic detection of KH 30 sensors
- Real-time monitoring of measurements
- Recording frequency settings
- Storage of up to 520,000 measurement points
- Measurement download and analysis via graphical displayl.

Compact

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 sauermannngroup.com.



16,000 measurement points



Magnetised casing



A place for an anti-theft device



Kilog-lite configuration software



KH 50

- 1-line display
- Internal sensor
- Battery life: 365 days*
- IP20

Measuring range

°C -20 to +70°C
°F 5 to 95 %RH



KT 50

- 1-line display
- Internal sensor
- Battery life: 500 days*
- IP65

Measuring range

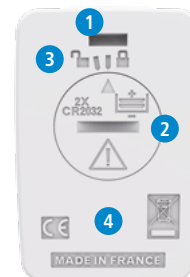
°C -40 to +70°C
°F



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



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



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)

*Non-contractual value. Based on 1 measurement each 15 minutes at 25 °C. A correct operation of the device and the storage conditions must be respected.

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



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



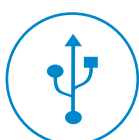
2 programmable alarm thresholds



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

-20 to +70°C
 5 to 95 %RH



KT 120

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

Measuring range

-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...



*Non-contractual value. Based on 1 measurement each 15 minutes at 25 °C. A correct operation of the device and the storage conditions must be respected.

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 / Clamp



KH 220

- 2-line display
- Impermeability: IP20

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 5/10 V
Pulse: max 5 V
Clamp: 0 to 600 A



KT 220

- 2-line 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 5/10 V
Pulse: max 5 V
Clamp: 0 to 600 A

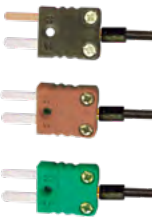


KTT 220

- 2-line 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-2 probe



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

*Non-contractual value. Based on 1 measurement each 15 minutes at 25 °C.
A correct operation of the device and the storage conditions must be respected.

BLUETOOTH

Expert

Class 320

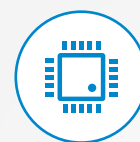
Temperature / Humidity / Pressure / Air quality / Atmospheric pressure
Current / Voltage / Pulse



Sauermann 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



Print



Transfer



Store



A place for an anti-theft device



2,000,000 measurement points



Wireless 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

Data collector, storage and recovery
p. 18

Expert

Class 320



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

2m long cable



KTT 320

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

External

🌡️ Thermocouple
temperature

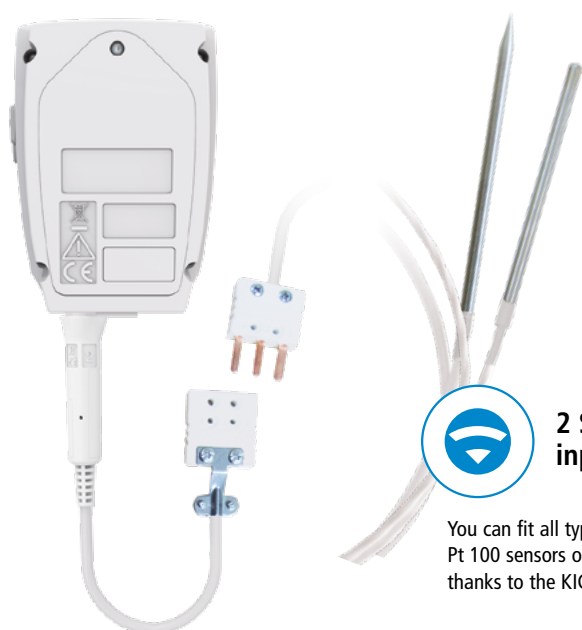
K -200 to +1300°C

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



KCC 320

- 2-line display
- Impermeability: IP40
- Battery life: 2 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
CO₂: 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

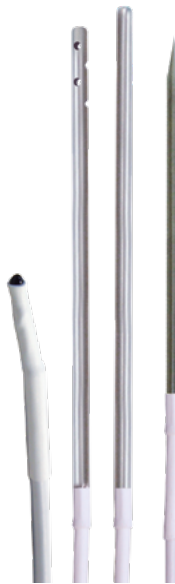
Probes

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

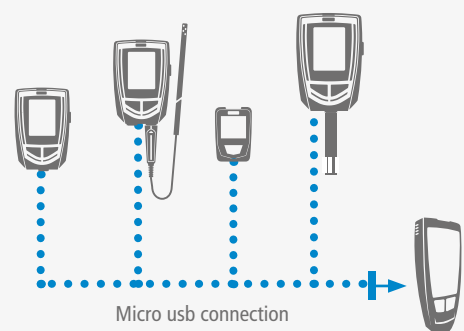
- 0 to 100 %RH
- Smart Plug technology
- ABS or Stainless steel sensor
- With or without the connection cable
- Cable length 2m

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	KH30	KT50	KH50	KT120	KH120	KT220	KH220	KTT220	KT320	KP320/321	KCC320	KPA320	KTT320
Storage capacity number of points	172,000	16,000		50,000		1,000,000			2,000,000				
Internal	2	1	2	1	2	1	3	-	1	1	4	3	-
External input	-	-	-	-	-	1	1	2	2	-	-	-	4
Impermeability	IP68	IP65	IP40	IP65	IP20	IP65	IP20	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								2 inputs THERMOCOUPLE K J T N S					4 inputs THERMOCOUPLE K J T N S
Air quality													
Pressure													
Light													
Current / Voltage / Pulse / Clamp													
Water pressure													
Atmospheric pres- sure													
Remote probes		no				Interchangeable probes			Smart plug smart probes				
Battery life	8 Years*	500 d*	365 d*	3 years*	500 d*		4 years*		7 years*		2 years*	7 years*	
Anti-theft device	-			-	-								
Magnetic fastening	-	yes											
Kimo Track	free	-											
Kilog-lite	no	free											
Kilog-PDF	no	no		yes		no							
Kilog	no	Comprehensive Kilog data processing software (Optional)											
Data Logger app	no	no							yes				
Station Compatibility	no	yes		no		yes							



Certificates

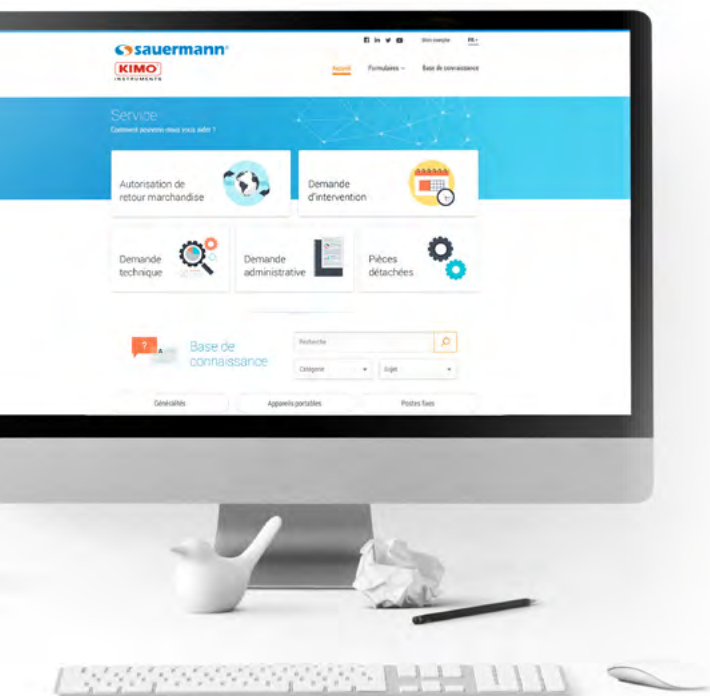
Class 120 adjustment certificate integrated into the data logger's memory in pdf format

Calibration certificate available for the entire range upon request

*Non-contractual value. Based on 1 measurement each 15 minutes at 25 °C. A correct operation of the device and the storage conditions must be respected.

Services

Calibration / Hotline / Maintenance



Customer service portal

For any repair, calibration or device feedback requests, log in to our Customer Service Portal.



**Accessible
24/7**



**Fast and
easy-to-use**



**Follow-up in
real time**

sauermann-en.custhelp.com



**Calibration and
adjustments**



**After-sales
services**



Hotline



On-site services

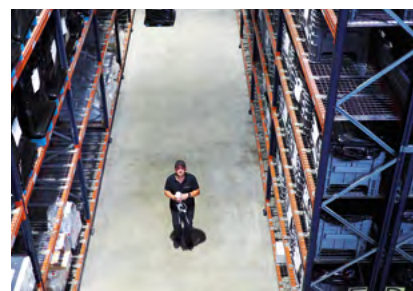
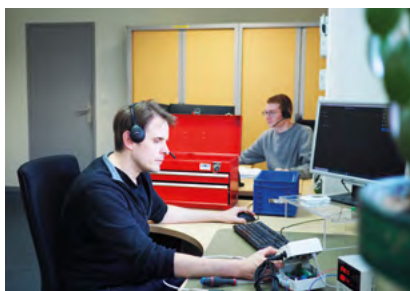


Training



To complement our range of measuring instruments, a team of more than 40 people offers a wide range of services, such as calibration and adjustments, after-sales support, hotline, on-site services and training.

Our team of experts will accompany you throughout your project and will adapt to your needs thanks to more than 40 years of experience and our sophisticated laboratory equipment.



Our laboratories, spanning over 1,500 m², allow us to offer you all kinds of metrological services related to:

- Temperature
- Humidity
- Air velocity
- Air flow
- Pressure
- Combustion
- Weighing
- Radiometry
- Tachometry
- Light measurement
- Electrical current



Our on-site technician performs precise measurements at various strategic locations within the warehouse to assess temperature and humidity conditions. The readings are taken using specialized instruments and recorded in data files for analysis. This mapping is essential to ensure that storage conditions comply with current pharmaceutical standards, thus ensuring the quality and effectiveness of the products.

Application

Exemple

TEMPERATURE MAPPING

Warehouse / Laboratory / Pharmacy / Chamber / Transport



Pharmaceutical
warehouse



Climatic conditions
 $+20^{\circ}\text{C} \pm 5^{\circ}\text{C}$



100,000 m³
characterisation
volume

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

*NF EN 60068-3 standard

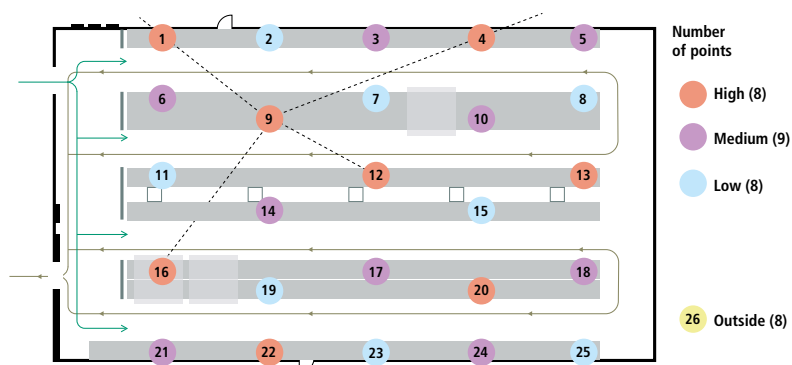
- Measurement of the temperature and relative humidity of the air
- Climatic and thermostatic chambers
- Characterisation and deviation from target

Mapping a drug warehouse in accordance with the NF EN 60068-3 standard under temperature and relative humidity conditions of $20^{\circ} \pm 5^{\circ}\text{C}$.



Equipment

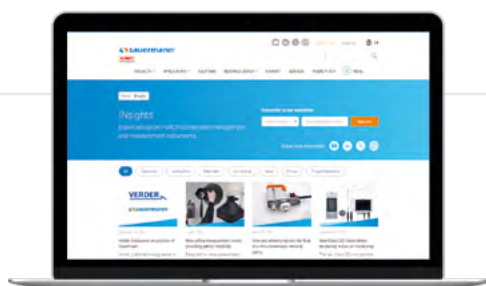
26 KT 320 data loggers , including 1 installed outside. KILOG software to configure and process data.



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.

Professional solutions for condensate management and indoor air quality measurement



INsights

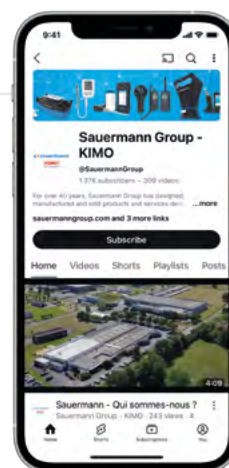
Case studies, useful information and practical advice for HVAC and indoor air quality professionals.

sauermanngroup.com/en-INT/insights

Sauermann on YouTube

Head to our YouTube channel for tutorials, webinars and product guides.

youtube.com/sauermanngroup



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