EN 12830
KT 50





DATA SHEET

KT 50 - KH 50

KISTOCK Data logger
For HVAC - Temperature, Humidity

Configuration and data viewing software freely downloadable

Magnetic mounting

- Configuration and data processing software available as option
- 16,000 measurement points
- Measure up to 2 parameters
- 2 configurable setpoint alarms
- 1 line LCD display
- Fast data download (1000 values/second)
- IP65 (KT 50) and IP20 (KH 50) housing

General features

	KT 50	KH 50
Units displayed	°C, °F	°C, °F, % RH
Resolution	0.1 °C, 0.1 °F	0.1 °C, 0.1 °F, 0.1% RH
External inputs	Micro-USB connector	
Internal sensor	Temperature	Humidity, temperature
Setpoints alarm	2 setpoint alarms on each channel	
Frequency of measurement	From 1 minute to 24 hours	
Operating temperature*	From -40 to +70 °C	From -20 to +70 °C
Storage temperature	From -40 to +85 °C	
Battery life	500 days**	365 days**
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE	

* The screen can be hard to read, and its display speed often slows down at temperatures lower than 0 °C. This has no effect on the accuracy of measurements. / **On the basis of 1 measurement each 15 minutes at 25 °C.

Housing

Dimensions	61.3 x 40 x 21.9 mm
Weight	40 g
Display	1 line LCD screen Screen dimensions: 26.5 x 22.5 mm
Control	1 OK key
Material	Compatible with food industry environment ABS housing Caps made of Elastomer
Protection rating	IP65: KT 50. IP20: KH 50
PC communication	1 micro USB input
Battery power supply	2 x CR2032 (lithium 3 V)
Environmental conditions of use	Hygrometry: in non-condensing condition Maximum altitude: 2000 m Air and neutral gases

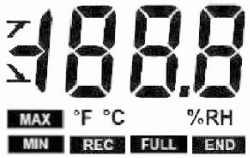
Technical specifications

KT 50 Internal sensor	Temperature
Type of sensor	NTC
Measuring range	From -40 to +70 °C
Accuracy*	±0.4 °C from -20 to 70 °C ±0.8 °C below -20 °C

KH 50 Thermo-hygrometer	Hygrometry	Temperature
Type of sensor	Capacitive	NTC
Measuring range	From 0 to 100% RH	From -20 to +70 °C
Accuracy*	±2.5% RH (from 15 °C to 25 °C, from 5 to 95% RH)**	±0.4 °C from 0 to 50 °C ±0.8 °C below 0 °C or above 50 °C

* All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with calibration compensation.
** Factory calibration uncertainty: ±0.88% HR. Temperature dependence: ±0.04 x (T-20) % HR (if T<15 °C or T>25 °C).

Display



°C: Temperature in degrees Celsius
°F: Temperature in degrees Fahrenheit
%RH: Relative humidity (KH 50)

END — Dataset is finished

REC — Records the values at the moment when this indicator appears / flashing: the dataset has not yet started

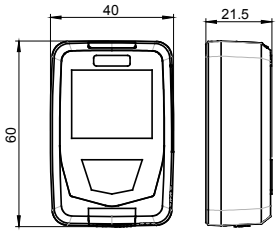
FULL — Slow flashing: dataset is taking between 80 and 90% of storage capacity
Fast flashing: dataset is taking 90-100% of storage capacity
Constant: storage capacity filled up

MAX / MIN — Displayed values correspond to maximum and minimum values of the channels

Alarm action type: rising or falling action

bAt — Flashing on the screen + flashing of LEDs: means that the battery must be changed

Dimensions (mm)



Connections

PC connection input



Micro-USB connector

EN12830 STANDARD

KT 50 models dedicated to food industry, meet with requirements of EN 12830 norm. This certification is required for transportation, storage and distribution of refrigerated, frozen and deep-frozen food, and ice cream Certification is done by an independent laboratory, COFRAC accredited.

Calibration

KISTOCK data loggers can be supplied with an optional calibration certificate.

Recorder functions

The KISTOCK allows to record the values measured instantaneously, it records the values according to a predefined interval.
On the other hand, it is possible to operate continuously the KISTOCK thanks to a loop recording.

3 types of dataset start

The measurement dataset can be launched:
- With a delayed start (with predefined date and time)
- With the software
- With push-button

6 types of dataset stop

You can stop your dataset:
- According to a date and time (if it was started the same way)
- According to a recording duration
- According to a predefined number of recording points
- If the storage capacity of the memory is full
- With "Stop" option of the software
- By holding "OK" key during about 5 seconds, if this function has been previously activated by the software.

Software

Freely downloadable software on sauermanngroup.com
KILOG Lite software allows to configure the data logger, to view data and to save data in PDF file.

Configuration and data processing software
KILOG software allows you to configure, save and process your data in a very simple way.
- Software only: ref. KILOG-3-N
- Complete set: software + 1 interface. Ref. KIC3-N



USB-micro USB cable: CK50
This cable allows you to connect your KISTOCK to your PC.

Accessories

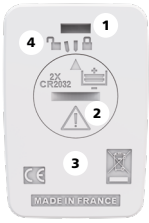
- **2 CR2032 batteries pack.** Ref. P2-50
- **Data collector:** collects up to 20 000 000 points from one or several KISTOCK directly on-site. Results restitution on PC of realised datasets. Ref: KNT-320



Only the accessories supplied with the device must be used.

Mounting

KISTOCK can be mounted in different ways, you can also move it or install it very easily.
- Magnetic mounting (see photo)



1. Necklace for anti-theft
2. Batteries cover
3. Magnetic fixing
4. Locking sign of the batteries cover

Replace the batteries

With 500 days* battery life, KISTOCK ensure long-term measurements. To change the batteries:
- Unlock the battery cover with a screwdriver or a coin.
- Put the 2 batteries superimposing them (3 V CR2032 button batteries) with the + pole visible.
- Put back the batteries cover: the sign of the batteries cover must be placed in front of the opened padlock.
- Turn right the batteries cover: the sign on the batteries cover must be placed in front of the closed padlock.

*For a KT 50 on the basis of 1 measurement each 15 minutes at 25 °C.

Warranty

KISTOCK data loggers have 1-year guarantee for any manufacturing defect (return to our After-Sales Services required).

Maintenance: please avoid any aggressive solvent. Please protect the device from any cleaning product containing formalin, that may be used for cleaning rooms or ducts.

Precautions for use: please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

FT_EN – KT 50 - KH 50 – 20/04/2021 – Non-contractual document – We reserve the right to modify the characteristics of our products without prior notice.