



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.

### 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

### Housing

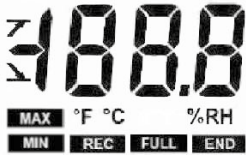
Dimensions	61.3 x 40 x 21.9 mm
Weight	40 g
Display	1 line LCD screen Screen dimensions: 26.5 x 22.5 mm
Control	1 OK key
Material	Compatible with food industry environment ABS housing Caps made of Elastomer
Protection rating	IP65: KT 50. IP20: KH 50
PC communication	1 micro USB input
Battery power supply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

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).

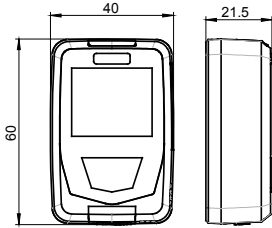
## Display



°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](http://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.



**CAUTION!** Material damages can occur, apply the indicated precautionary measures.

[www.sauermanngroup.com](http://www.sauermanngroup.com)

