

Technical Data Sheet

Pressure • Temperature • Humidity • Air Velocity • Airflow • Sound level

KH 100 KISTOCK

Temperature and humidity datalogger





With or without display

- Measure up to 3 parameters
- LCD display
- Light sensor
- Fast data download (1,000 values/second)
- Up to 12,000 measurement points
- 2 configurable setpoint alarms
- Small dimensions
- Magnetic mounting
- IP 40 housing and Elastomer protection pads

Technical features

Units displayed°C, °F, %RH, Lux, °Ctd, °Ftd
Resolution
External input none
Setpoint alarm 2 setpoint alarms on each channel
Frequency of measurementfrom 1s to 24h
Working temperaturefrom –20 to +70°C
Storage temperaturefrom -40 to +85°C
Battery life 5 years *
(*) on the basis of 1 measurement each 15 minutes at 20°C

Thermo-hygrometry Probe

Inermo-nygrometry Probe	
Type of sensor	CMOS
 Hygrometry 	
Measuring range	5 to 95%RH
	± 2.95 %RH between 18°C and 28°C
Response time	t _{0.63} =50s (V _{air} =2m/s)
Temperature	
Measuring range	-20 to +70°C
Accuracy	±1% of value displayed, ±0.4°C
	(+5°C≤T<+70°C)
	±2% of value displayed ±0.6°C
	(-20°C <t<+5°c)< td=""></t<+5°c)<>
Response time	t _{0.63} =25s (V _{air} =2m/s)

*Guaranteed Accuracy Limits (GAL)

As per NFX 15-113 standard and as per the Charter « 2000-2001 HYGROMETERS »

EMG (GAL) = ±2.95 %RH between 18 and 28°C (normal measurement range)

(normal measurement range)
Measuring range: 5 to 95%RH,
Short-term drift: 1%RH / year
EMG = $E_i + E_{b_i} + k (u_e^2 + u_r^2 + u_a^2 + u_s^2)^{1/2}$ E_{b_i} : linearity and hysteresis = ± 1.33 %RH E_i : temperature coefficient error = ± 0.42 %RH with

 u_{et} : uncertainty of calibration = \pm 0.55%RH u_{r} : uncertainty of resolution = \pm 0.003%RH

 u_d : manufacturing dispersion = ± 0.2 %RH u_s : comparison repeatibility = 0.13%RH

k : coverage factor value = 2

Light sensor

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.

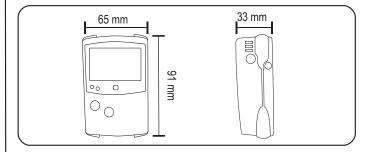
References

Part number	Internal sensor	Display	External inputs	Protection
KH-100-AN	Yes	No	0	IP 40
KH-100-AO	yes	1-line	0	IP 40

Features of housing

Dimensions	91 x 65 x 33 mm
Weight	.85g
Display	1-line LCD display
	Dimensions of screen: 45 x 17 mm
Control	2 keys (« SELECT » and « OK »)
Material	Compatible with food industry environmen
	Housing made of Polycarbonate
	Sides and caps made of Elastomer
Protection	IP 40
PC communication	.1 input for Jack connector (male 3.5)
Electronics	Digital electronics
	Lacquer protected circuit board
	Meets RoHS standards
Battery power supply	Lithium 3.6V 1/2 AA
Visual alarm	2 electroluminescent diodes (green, red)
Environment	Air and neutral gases

Dimensions



Connections

PC connection input



END

REC

LOG

FULL

Data set is finished

One value is being recorded

Display



%RH	Relative humidity
°F	Temperature in degrees Fahrenheit
°C	Temperature in degrees Celsius
td	Dew point temperature



Slow Flashing: data set is taking 80-90% of storage capacity Fast Flashing: data set is taking 90-100% of storage capacity Constant: storage capacity filled up

Flashing: data set has not started yet

Constant: data set is in progress

ACT

Refresh of displayed measurements



Display of measurement and recording intervals



Status of battery life: 5 levels (4 blocks + empty battery) Flashes when only one block is remaining



The values displayed correspond to maximum and minimum values of the channels

2

Channel no. which is measuring



Alarm action type: rising or falling action

Recorder functions

5 recording modes

KISTOCK can record in 5 different ways:

- « Immediate» mode => to record values according to a predefined interval
- « Minimum », « Maximum » and « Average »=> to record automatically the calculation of minimum, maximum or average of values measured during an interval
- « Monitoring »=> to get an accurate history report during error events to help troubleshooting, without stopping the measurement logging. To proceed this way, you just have to define:
 - a record interval to be used whilst the readings are beyond the setpoints
 - a record interval for the values measured during each reading beyond the setpoints

Furthermore, you can also let your KISTOCK record non-stop (« loop » recording option).

4 types of data set start

Once your recording mode has been set, you can launch your data set:

- with a delayed start (with predefined date and time)
- with the software
- with push-button
- with « Online » option. In this case, your data sets are directly sent, saved and displayed on your PC in real time.

6 types of data set stop

You can stop your data set:

- · according to a date and time (if it was started the same way)
- according to a period
- according to a predefined number of recording points
- once the storage capacity is full
- with « Stop » option of the software

by holding « OK » key for at least 5s, if this function has been previously activated by the software.

KILOG software



· Configuration and data processing software

KILOG software enables you to configure, save and process your data in a very simple way.

•	Software	Ref.	KILOG
•	USB interface	Ref.	I-KIC2

Complete set*.....Ref. KIC2 KILOG

•* including KILOG software + 1 USB interface



• KISTOCK-PC interface

This USB cable enables you to connect your KISTOCK to your PC.

Ref. I-KIC2

KILOG VALORE

KILOG CFR software

KILOG CFR software is the key tool for users who require traceability, in accordance with 21CFR-Part11 standards. Security and integrity of data are guaranteed: it is not possible to modify or tamper with the data.

- Complete set: KILOG CFR software + 1 interface... Ref. KIC2 CFR

Accessories

KNT data collector

KNT data collector allows you to collect measurements from one or several KISTOCK directly on-site (500,000 values stored). Data can then be displayed and printed from the KNT or downloaded to your PC.

Ref. KNT 300

• Printer for KNT 300 data collector Ref. ITP



Secured wall-mounting bracket

KIMO has designed a new proprietary anti-theft system with no padlock. Your system cannot be unlocked or damaged: your installation is fully secured.

Ref. KAV



Once your KISTOCK is set on the mounting plate, insert the key to lock the mounting system.



To unlock: insert the key inside the metallic axis, and make ¼ turn.



Remove the key to release the metallic axis. Your KISTOCK is now unlocked.

- · Lace. Ref. KDC
- Lithium 1/2 AA battery. Ref. KBL

Mounting

KISTOCK can be mounted in different ways; you can also move it or install it very easily.

- Magnetic mounting or wallmounting (see photo)
- Secured mounting (optional, see accessories)



How to change the battery

With 5-year battery life (*), KISTOCK guarantee long-term measurements.

To change the battery:

- · Remove the screw located at the back, with a screw driver
- Remove the front part, along with the old battery
- Insert the new battery observing the proper polarity
- Replace the front
- Tighten the screw.
- Press « Select » key to refresh battery level

(*) on the basis of 1 measurement each 15 minutes at 20°C

Calibration

KISTOCK dataloggers can be supplied with calibration certificate as an option.

Warranty period

KISTOCK dataloggers have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required).

www.kimo.fr

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