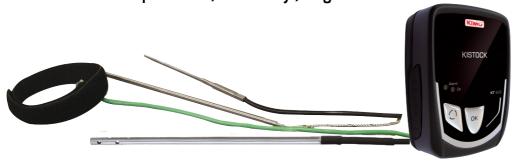


Technical Data Sheet

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

KISTOCK DATALOGGER HVAC range: KT210 / KH210

Temperature / Humidity / Light





KEY POINTS

- 20,000 measurement points
- Up to 4 external inputs
- Up to 5 recordable parameters
- 2 configurable setpoint alarms
- Fast data download (1000 values per seconds)
- Magnetic mounting
- IP40 housing

PART NUMBERS

Par number	Internal sensor	Display	External input number	Parameters
KT-210-AN	yes	no	4	Temperature
KT-210-AO	yes	1 line	4	Current/voltage
KH-210-AN	yes	no	2	Humidity,
KH-210-AO	yes	2 lines	2	temperature and light
KH-210-DO	yes	2 lines	2	Current/voltage

TECHNICAL FEATURES

	KT210	KH210
Units displayed	°C, °F, mV, V, mA, A	°C, °F, %RH, Lux*, °Ctd, °Ftd
Resolution	0.1 °C, 0.1 °F, 0.001 V, 0.001 mA, 0.1 A	0.1 °C, 0.1 °F, 0.1%HR, 1 Lux*
External inputs	4 Jack connectors 2.5 Stereo	2 Jack connectors 2.5 stereo 1 Mini-DIN connector**
Internal sensor	Temperature sensor NTC type : Measuring range : from -40 to +70 °C Accuracy : from - 20 to +70 °C : ±0.4 °C from -40 to -20 °C : ±0.8 °C	Light sensor photodiode type : Measuring range : from 0 to 10000 lux Accuracy : ±10 %
Setpoint alarms	2 setpoint alarms on each channel	
Frequency of measurement	From 1 s to 24 h	
Working temperature	From -40 to +70 °C	From -20 to +70 °C
Storage temperature	From -40 to +85 °C	
Battery life ¹	5 ye	ears

FEATURES OF HOUSING

Dimensions

98.7 x 67.8 x 34.7 mm

Weight

113 g

Display

2 lines LCD screen

Dimension of screen: 45 x 28.5 mm

Control

2 buttons: Select and OK

Materia

Compatible with food industry environment ABS housing

Slides and caps made of Elastomer

Protection

IP 40

PC communication

1 digital input for male Jack connector 3.5

Digital electronics

Lacquer protected circuit board Meets RoHS standards

Battery power supply

Type lithium 3.6 V 1/2 AA

Visual alarm

2 electroluminescent diodes (green and red)

Environment

Air and neutral gases

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

^{*} Brightness data are recorded, the screen does not display them.

^{**}only for KH-210-DO KISTOCK

TECHNICAL FEATURES FOR PROBE

KH210

• THERMO-HYGROMETRY PROBE1

	Hygrometry	lemperature
Sensor type	CMOS	
Measuring range	From 5 to 95 %HR	From -20 to +70 °C
Accuracy*	Accuracy** (Repeatability, linearity, hysteresis): ±2%RH (from 15°C to 25°C) Factory calibration . uncertainty: ±0,88 %RH Temperature dependence: ±0.04 x (T-20) %RH (if T<15°C or T>25°C)	From -20 to 0°C: 2% of displayed value ±0,6 °C From 0 to 30 °C: ±0,5 °C From 30 to 70 °C: 1.5% of displayed value
Response time (t _{0.63})	50 s (Vair = 2 m/s)	25 s (V = 2 m/s)

¹ Internal thermo-hygrometry probe for KH-210-A and external thermo-hygrometry probe for KH-210-DO.

TEMPERATURE PROBES (OPTIONAL)

Sensor type	NTC
Measuring range	From -40 to +120 °C (remote probe)
Accuracy*	Remote probe : ±0.3 °C (-25 °C <t<+70 °c)<br="">±0.5 °C (beyond)</t<+70>

TECHNICAL FEATURES FOR PROBE

KT210

TEMPERATURE PROBES (OPTIONAL)

Sensor type	NTC
Measuring range	From -40 to +120 °C (remote probe)
Accuracy	Remote probe : ±0.3 °C (-25 °C <t<+70 °c)<br="">±0.5 °C (beyond)</t<+70>

TECHNICAL FEATURES FOR CABLES

KT210 and KH210

CURRENT INPUT CABLE (OPTIONAL)

Measuring range	0/4-20 mA
Accuracy*	±0.2 % of the measurement ±1 μA

VOLTAGE CABLE (OPTIONAL)

Measuring range	0-10 V
Accuracy*	±0.2 % of the measurement ±1 mV

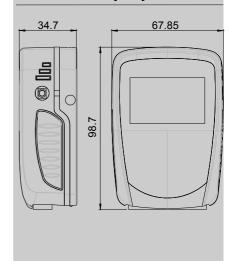
AMMETER CLAMP (OPTIONAL)

Measuring range	0-50 A / 0-100 A / 0-200 A / 0-600 A
Accuracy*	±1 to 2.5 % of the value displayed (according to measuring range)

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.

See technical datasheet "Measuring probe and cable for class 110/210 kistock dataloggers"

DIMENSIONS (mm)



CONNECTIONS

External input (KH-210-DO)



Mini-Din connector

Jack connectors (2.5) Probe input for:

- NTC temperature
- Current input cable
- Voltage input cable
- Ammeter clamp

External input (KH-210-A)



Jack connectors (2.5)

Probe input for:

- NTC temperature
- Current input cable
- Voltage input cable
- Ammeter clamp

External input (KT-210)



Jack connectors (2.5)

Probe input for:

- NTC temperature
- Current input cable
- Voltage input cable
- Ammeter clamp

^{*}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.

**As per NFX 15-113 standard and the charter 2000/2001 Hygrometers, GAL (Guaranteed Accuracy Limit) which has been calculated with a coverage factor value of 2 is ±2,88%RH between 18 and 28°C on the measuring range from 5 to 95%RH. Sensor drift is less than

RECORDER FUNCTIONS

5 recording modes

KISTOCK can record in 5 different ways:

- "Immediate" mode records values according a predefined interval.
- "Minimum", "Maximum" and "Average" record automatically the calculation of minimum, maximum or average of measured values during an interval of recording.
- "Monitoring" mode allows 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 dataset start

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

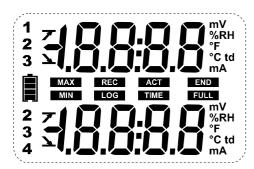
- With a delayed start (with predefined date and time)
- · With the software
- · With push-button
- With "Online" option. In this case, your datasets are directly sent, saved and displayed on your PC in real time.

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 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.

SCREEN



°C.. Temperature in degrees Celsius
°F.. Temperature in degrees Fahrenheit
%RH........... Relative humidity (KH 210)
td.. Dew point temperature (KH 210)
V or mV Voltage expressed in V or mV
A or mA Current expressed in A or mA

END DATAS

DATASET is finished

REC One value is being recorded

LOG Flashing : dataset has not started vet

Constant : data set is in progress

Slow flashing: dataset is taking 80-90% of storage capacity Fast flashing: dataset is taking 90-

100% of storage capacity

Constant: storage capacity filled up

12 23 34 Channel No. which is measuring ACT

Refresh of displayed measurements

TIME

Display of measurement and recording intervals

Status of battery life: 5 levels (4 blocks + empty battery)

Flashes when only one block is remaining

Diantava

MAX

Displayed values correspond to maximum and minimum values of the channels

7

Alarm action type: rising or falling action

₽ flashing on the screen + flashing of LEDs : means that battery must be changed

├┌ ← flashing of the green LED : detection of communication error → Press "Select" and "OK" keys to reset the instrument

Fress "Select" and "OK" keys to reset the instrument



Configuration and data processing software

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

Software	Ref. KILOG-N
USB interface	Ref. I-KIC2
Complete set: soft + 1 interface	Ref. KIC2 KILOG

This USB cable enables you to connect your



KILOG CFR software

KILOG CFR software is the key tool for users who requires 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.

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

Secured mounting (optional, see accessories)

HOW TO CHANGE THE BATTERY

With 5-year battery life*, KISTOCK guarantee

• Remove the screw located at the back, with a

· Remove the front part, along with the old

Insert the new battery observing the proper

• Press "SELECT" and "OK" keys for 2 seconds to refresh battery level. * on the basis of 1 measurement each 15

long-term measurements.

To change battery:

Replace the front.

· Tighten the screw

minutes at 20°C

screw driver

polarity

Wallmount and

Magnetic mounting

lace eyelet

· Magnetic mounting or wallmounting (see

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

MOUNTING

photos)



Ref. I-KIC2

KISTOCK-PC interface K

KISTOCK to your PC.

Software is compatible with the former range of Kistock.

ACCESSORIES



KNT data collector.

KNT data collector allows you to collect measurements from one or several KISTOCK directly on-site (up to 500,000 values stored). Data can be displayed and printed from the KNT or download to your PC. Ref. KNT 300



Secured wall-mounting bracket

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



Once your KISTOCK is set on the mounting plate,

insert the key to lock the

mounting system.



To unlock: insert the key inside the metallić axis, and make 1/4 turn.



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

• Wire extensions for NTC temperature probe.

Made of PVC HT, 5m long, with Jack connectors (male and female) Ref. KRC 5

Note: you can connect several extensions together (maximum length 25m)

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

CALIBRATION (Optional)

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

KISTOCK dataloggers have 1-year guarantee

WARRANTY PERIOD

for any manufacturing defect (return to our After-Sales Service required).

www.kimo.fr

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