

## KT 200 KISTOCK Temperature datalogger

Measure from 1 to 5 parameters  
Large LCD display  
4 external inputs  
Fast data download (1,000 values/second)  
Up to 16,000 measurement points  
2 configurable setpoint alarms  
Small dimensions  
Magnetic mounting  
IP 67 or IP 40 housing and Elastomer protection pads



### Technical features

Units displayed..... °C, °F, mV, V, mA, A  
Resolution..... 0.1°C, 0.1°F  
1mV, 0.001V, 0.001mA, 0.1A  
External inputs..... 4 Jack connectors (2.5 stereo)  
Setpoint alarms..... 2 setpoint alarms on each channel  
Frequency of measurement..... from 1s to 24h  
Working temperature..... from -40 to +70°C  
Storage temperature..... from -40 to +85°C  
Battery life..... 5 years\*

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

#### Temperature probes (optional)

Type of sensor..... NTC  
Measuring range..... -40 to +70°C (internal sensor)  
-40 to +120°C (remote probe)  
Accuracy..... internal sensor  
±0.4°C (-20°C < T < +70°C)  
±0.8°C beyond the above range  
remote probe  
±0.3°C (-25°C < T < +70°C)  
±0.5°C beyond the above range

See technical datasheet « Measuring probes and cables for Class 100/200 KISTOCK dataloggers »

#### Current input cables (optional)

Measuring range..... 0/4-20mA  
Accuracy ±0,2%mesure±0,1µA

#### Voltage cables (optional)

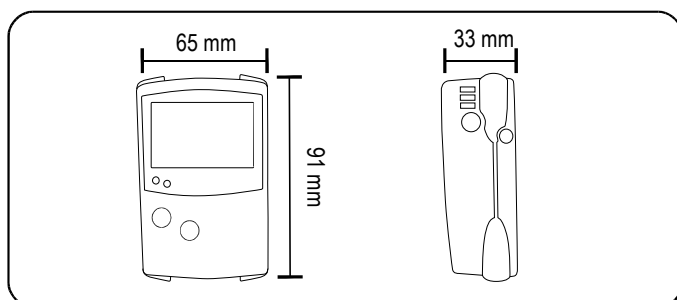
Measuring range..... 0-2.5V  
Accuracy ±0,2%mesure±1mV  
Measuring range..... 0-10V  
Accuracy ±0,2%mesure±1mV

#### Ammeter clamps (optional)

Measuring range..... 0-600A  
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.

### Dimensions



### References

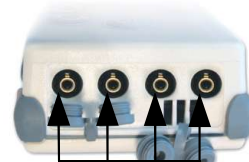
Part number	Internal sensor	Display	External inputs	Protection
KT-200-IN	Yes	No	4	IP 67
KT-200-IO	Yes	2-line	4	IP 67
KT-200-AN	Yes	No	4	IP 40
KT-200-AO	Yes	2-line	4	IP 40

### Features of housing

Dimensions..... 91 x 65 x 33 mm  
Weight..... 85g  
Display..... 2-line LCD  
Dimensions of screen: 45 x 28.5 mm  
Control..... 2 keys (« SELECT » and « OK »)  
Material..... Compatible with food industry environment  
Housing made of Polycarbonate  
Sides and caps made of Elastomer  
Protection..... IP 67 or 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

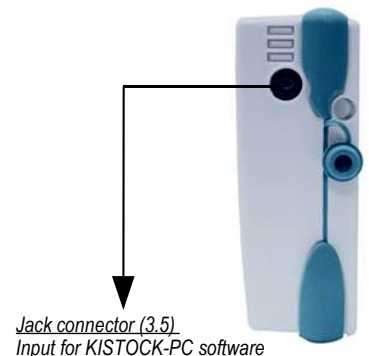
### Connections

#### KT 200-I and KT- 200-A external inputs

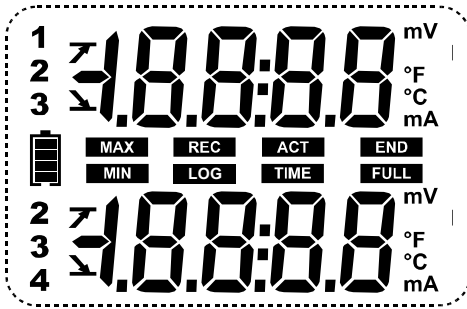


Jack connectors (2.5)  
Probes inputs  
- NTC temperature  
- current input cable  
- voltage input cable  
- ammeter clamp

#### PC connection input



## Screen



°C..... Temperature in degrees Celsius  
 °F..... Temperature in degrees Fahrenheit  
 V or mV..... Voltage expressed in V or mV  
 A or mA..... Current expressed in A or mA

<b>END</b>	Data set is finished	<b>ACT</b>	Refresh of displayed measurements
<b>REC</b>	One value is being recorded	<b>TIME</b>	Display of measurement and recording intervals
<b>LOG</b>	Flashing: data set has not started yet Constant : data set is in progress		Status of battery life: 5 levels (4 blocks + empty battery) Flashes when only one block is remaining
<b>FULL</b>	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	<b>MIN</b>	The values displayed correspond to maximum and minimum values of the channels
<b>12</b>			Alarm action type: rising or falling action
<b>23</b>	Channel no. which is measuring		
<b>34</b>			
<b>INT</b>	Measurement made by internal sensor		

**bAt** flashing on the screen + flashing of LEDs : mean that battery must be changed

**Err** + flashing of the green LED : detection of communication error → Press « **Select** » and « **OK** » keys to reset the instrument.

**Err** + flashing of the red LED : detection measurement error → Press « **Select** » and « **OK** » keys to reset the instrument.

## 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.

## Measuring probes and cables

Large choice of NTC temperature probes: general use, penetration, ambient, wire, Velcro, with handle...

Current and voltage input cables

Ammeter clamps

See technical datasheet « Measuring probes and cables for Class 100/200 KISTOCK dataloggers »)

## 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



### 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.

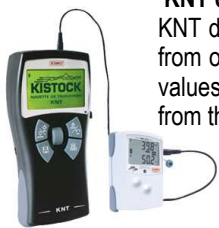
Interface.....Ref. I-KIC2  
Complete set: KILOG CFR software+ 1 interface.....Ref. KIC2 CFR



### KISTOCK-PC interface

This USB cable enables you to connect your KISTOCK to your PC.  
Ref. I-KIC2

## 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.

### Wire extension 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

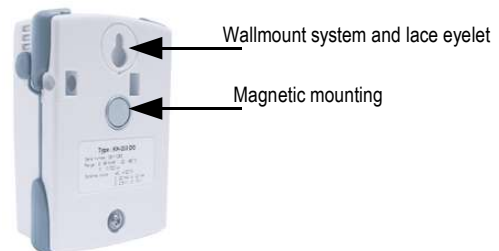
Lithium ½ AA battery . Ref. KBL

## 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 » and « OK » keys for 2 seconds 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](http://www.kimo.fr)

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