

## KTR 300 KISTOCK Pt 100 temperature datalogger

- Up to 2 parameters
- Thermometer function
- Large LCD display
- 2 external inputs
- Fast download of data (1,000 values/second)
- Up to 100,000 measurement points
- 2 configurable setpoint alarms
- Small dimensions
- Magnetic mounting
- IP 67 housing and Elastomer protection pads



### Technical features

Units displayed.....	°C, °F, mV, V, mA, A
Resolution.....	0.1°C, 0.1°F
External inputs.....	1mV, 0.001V, 0.001mA, 0.1A
External inputs.....	2 Mini-DIN connectors
Setpoint alarms.....	2 setpoint alarms on each channel
Frequency of measurement.....	from 1s to 24h
Working temperature.....	from -20 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.....	Pt100 class A as per IEC 751
Measuring range.....	-100 to +400°C (depends on the probe)
Accuracy.....	±0.4% of the value displayed ±0.3°C

See technical datasheet of « Measuring probes and cables for Class 300 KISTOCK dataloggers ».

### Current input cables (optional)

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

### Voltage input cables (optional)

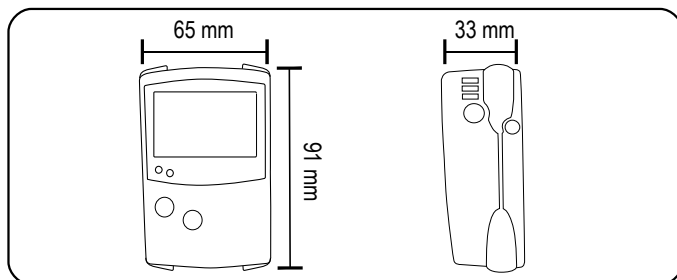
• Measuring range.....	0-2.5V
Accuracy.....	±0,2%mesure±0,1mV
• Measuring range.....	0-10V
Accuracy.....	±0,2%mesure±0,1mV

### Ammeter clamps (optional)

Measuring range.....	0-600A
Accuracy.....	±1 to 2.5% of the value displayed according to the 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



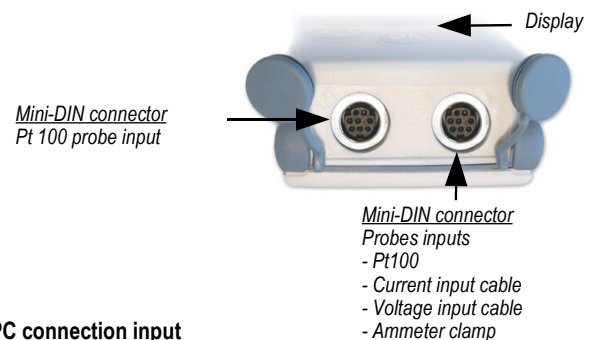
### Features of housing

Dimensions.....	91 x 65 x 33 mm
Weight.....	85g
Display.....	2-line LCD display
	Screen dimensions : 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.....	IP67
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 and red)
Environment.....	Air and neutral gases

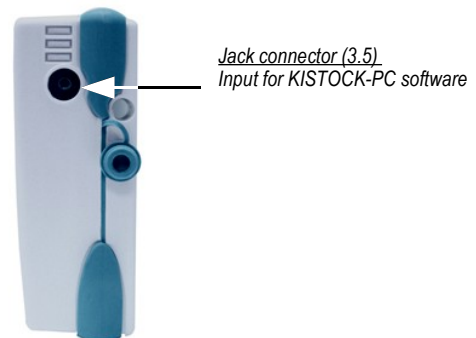
### Connections

#### External inputs

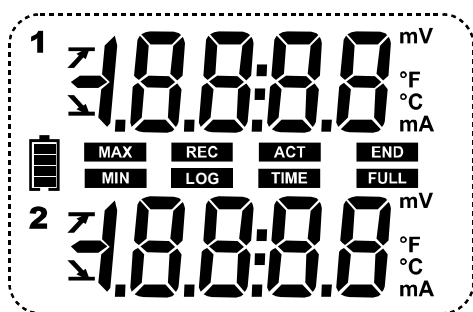
⚠ Only Class 300 probes shall be connected (not any other probes), as described below :



#### PC connection input



## Display



°C.....Temperature in degrees Celsius  
 °F.....Temperature en 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>	Channel no. which is measuring		Alarm action type: rising or falling action
<b>OFF</b>	Auto switch-off (from 1 to 30 minutes)	<b>DT</b>	Difference of temperature between 2 external probes
		<b>UNIT</b>	Measurement unit selected

## 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.

## Thermometer function



Once « thermometer » function is activated, KISTOCK allows you to display information as below:

- difference of temperature between 2 transmitters (« Delta T »),
- « Minimum »,
- « Maximum »
- or hold the temperature measured (« Hold »).

## Measuring probes and cables

Large choice of Pt100 Class A temperature probes: general use, penetration, ambient, wire, Velcro, with handle...

- voltage and current input cables
- ammeter clamps

See technical datasheet « Measuring probes and cables for Class 300 KISTOCK dataloggers »)

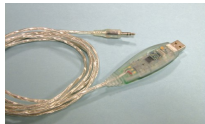
## KILOG softwares



### • Configuration and data processing software

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

- Software.....Ref. KILOG
- Complete set.....
- 1 KILOG software + 1 USB interface.....Ref. KIC2
- 1 KILOG software + 2 USB interfaces.....Ref. KIC12



### • KISTOCK-PC interface

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

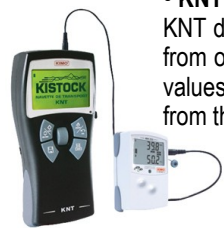
### • KILOG CFR software

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  
KILOG CFR software + 2 interfaces...Ref. KIC12 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.

### • Cable for Pt 100 temperature probe

Made of PVC (10 cm), supplied with Jack connectors (male and female)Ref. KCA

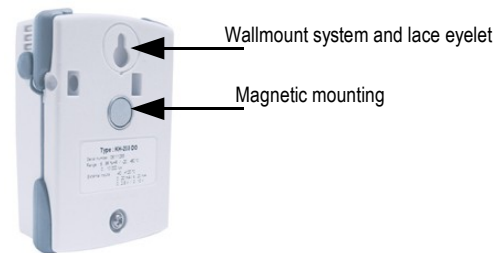
### • Lace . Ref. KDC

### • 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 » 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](http://www.kimo.fr)

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