

TECHNICAL DATASHEET

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 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
Setpoint alarms.....	2 Mini-DIN connectors
Frequency of measurement.....	2 setpoint alarms on each channel
Working temperature.....	from 1s to 24h
Storage temperature.....	from -20 to +70°C
Battery life.....	from -40 to +85°C
	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..... ±0.05mA

Voltage input cables (optional)

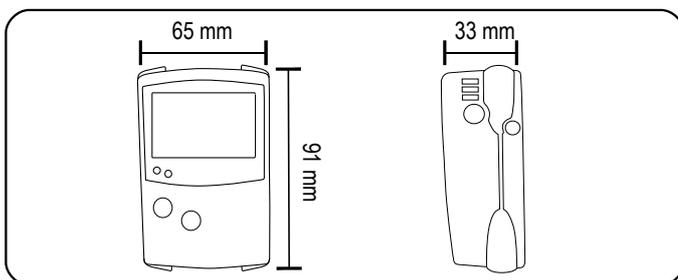
- Measuring range..... 0-2.5V
- Accuracy..... ±0.002V
- Measuring range..... 0-10V
- Accuracy..... ±0.02V

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



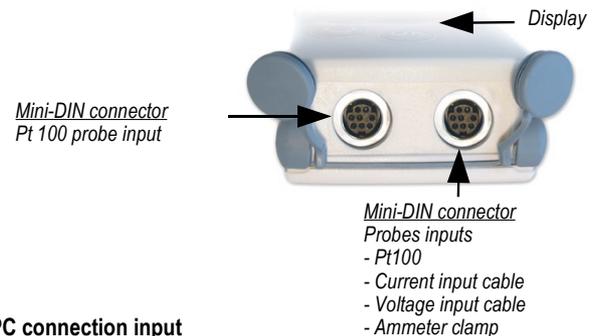
Features of housing

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

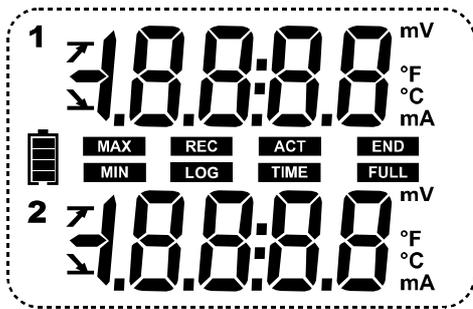
⚠ Only Class 300 probes shall be connected (not any other probes), as described below :



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

END	Data set is finished	ACT	Refresh of displayed measurements
REC	One value is being recorded	TIME	Display of measurement and recording intervals
LOG	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
FULL	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	MIN	The values displayed correspond to maximum and minimum values of the channels
12	Channel no. which is measuring	MAX	
OFF	Auto switch-off (from 1 to 30 minutes)		Alarm action type: rising or falling action
		DT	Difference of temperature between 2 external probes
		UNIT	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*

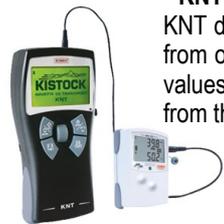
• KILOG CFR software

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*

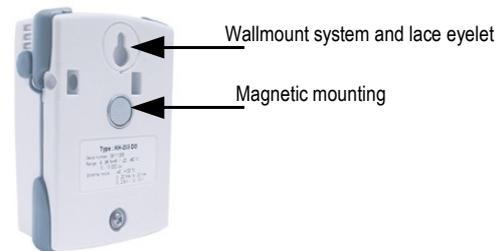
• Lace . Ref. *KDC*

• 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.

(*) 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).

EXPORT DEPARTMENT

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