KIMO INSTRUMENTS

Technical Data Sheet

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

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

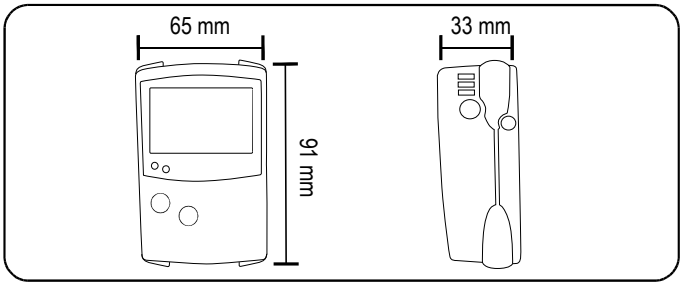
Units displayed..... °C, °F, mV, V, mA, A
Resolution..... 0.1°C, 0.1°F
1mV, 0.001V, 0.001mA, 0.1A
External inputs.....2 Mini-DIN connectors
Setpoint alarms..... 2 setpoint alarms on each channel
Frequency of measurement..... from 1s to 24h
Working temperature.....from –20 to +70°C
Storage temperature..... 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



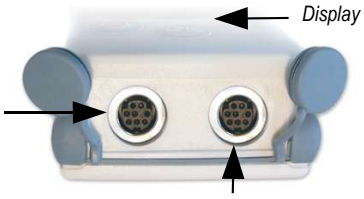
Features of housing

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 :

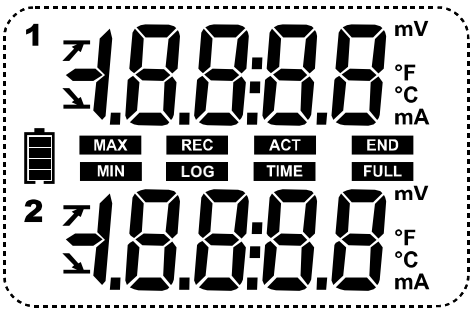


Mini-DIN connector
Probes inputs
- Pt100
- Current input cable
- Voltage input cable
- Ammeter clamp

PC connection input

Jack connector (3.5)
Input for KISTOCK-PC software

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*

REC *One value is being recorded*

LOG *Flashing: data set has not started yet*
Constant : data set is in progress

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

1 2 *Channel no. which is measuring*

OFF *Auto switch-off (from 1 to 30 minutes)*

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

MIN **MAX** *The values displayed correspond to maximum and minimum values of the channels*

Alarm action type: rising or falling action

DT *Difference of temperature between 2 external probes*

UNIT *Measurement unit selected*

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.

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 »).

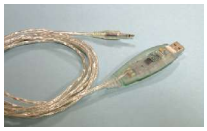
Measuring probes and cables

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 inteface.....*Ref. KIC2*
- 1 KILOG software + 2 USB interfaces..... *Ref. KIC12*

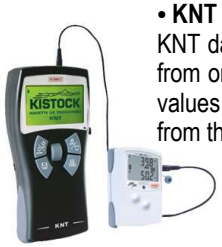


• KISTOCK-PC interface
This USB cable enables you to connect your KISTOCK to your PC.
Ref. I-KIC2

• 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.

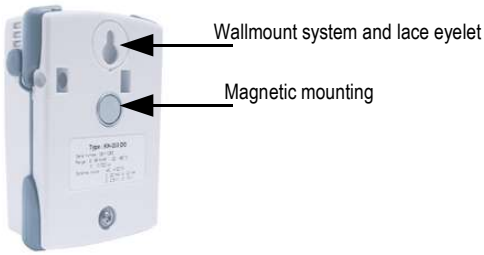
• Cable for Pt 100 temperature probe
Made of PVC (10 cm), supplied with Jack connectors (male and female)Ref. KCA

• 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 » 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

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